



**The Research Groups in the University of Nigeria**

**4<sup>th</sup> Edition, December 2023**

**The University of Nigeria Research Directorate  
2023-2025**



**Professor Charles Arizechukwu Igwe, FAS  
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Vice Chancellor  
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## **Foreword by the Vice Chancellor, University of Nigeria Nsukka**

It is with great pleasure that I present the 4<sup>th</sup> edition of the Compendium of Research Groups in University of Nigeria. This edition which contains the summary descriptions of eighty-five (85) active research groups in the University of Nigeria, is an improvement on the third edition. My administration decided to follow the precedent set by the immediate past leadership of the University in listing the active research groups and newly registered ones.

The publication of the 4<sup>th</sup> edition of the UNN Research Groups signifies the commitment of my administration to sustain and improve on the progress the University of Nigeria has made in the past one year plus in the production of high-level research outputs. We are committed to restoring the University to a citadel of learning in the world and positioning it as a center for research excellence in various academic disciplines of science and arts.

In order to achieve these, we have upheld the institutional frameworks that enable sustainable research and collaboration within and outside of the University. We will continue to implement the UNN Research Policy which gives registered research groups the legitimacy to attract and manage research grants. Furthermore, the University administration hereby, commits to the strengthening of existing memorandum of understanding (MoU) with numerous international universities in order to foster effective partnerships that are capable of leading to collaborative research projects between UNN Research Groups and researchers in universities abroad. To this end, the research groups in University of Nigeria will have supervised autonomy to attract and manage research grants, and where necessary, to collaborate with external institutions in the process.

The 85 listed research groups will continue to enjoy the support of the University administration and the Directorate for Research through the provision of resources for accessing research grants and for the communication of research findings through journal publications, conference presentations, briefing notes, mass media, UNN website, social media, and other national and international platforms/fora. I am grateful to the UNN Research Directorate, headed by Professor Obinna Onwujekwe for sustaining the momentum on this initiative.

**With Best wishes**

**Professor Charles Arizechukwu Igwe, FAS  
Vice Chancellor  
October 2023**

## Notes by the Director of Research, University of Nigeria Nsukka



I am delighted to present the 4<sup>th</sup> edition of the Directory of the University of Nigeria Research Groups. This edition contains the summaries of eighty-five (85) Research groups that are drawn from all the academic units of the university. Many of the groups are inter/multidisciplinary.

Thanks a lot for your cooperation and support as we jointly pursue the goal of making our university, one of the leading research universities in Africa. The Research Directorate is immensely grateful to our VC, Prof Charles Igwe, FAS for his support that enabled us to produce this 4<sup>th</sup> edition of the directory. I thank the staff of the UNN Research Directorate that helped to produce this directory.

The details of each research group will be available on the UNN website ([www.unn.edu/research groups](http://www.unn.edu/research_groups)).

**Professor Obinna Onwujekwe, FAS**  
**Director of Research**  
**October 2023**

## Summary of the Research Groups in the University of Nigeria

Table 1: Summary of active research groups in UNN

<b>Faculty</b>	<b>Numbers of active research groups</b>
Agriculture	12
Arts	2
Basic Clinical Sciences	2
Basic Medical Sciences	2
Biological Sciences	6
Business Administration	2
Education	4
Engineering	9
Environmental Sciences	2
Health Science and Technology	3
Law	1
Medical Sciences	6
Pharmaceutical Sciences	7
Physical Sciences	12
Social Sciences	7
Veterinary Medicine	2
Vocational and Technical Education	3
Institutes, Centres and Library	3
<b>Total</b>	<b>85</b>

The Research Groups are presented alphabetically according to Faculties and other academic units in the following sections.

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## FACULTY OF AGRICULTURE

### 1. Agriculture for Development (A4d)

**Description:** The objectives of the Research Group include but not limited to; consistently key into calls for grants to enhance professional growth of academics in agriculture; help younger academics pull through postgraduate scholarship opportunities; support young academics to publish articles in reputable journals; encourage social cohesion among young academics in agriculture; and meet common social and economic aspirations of members.

**Coordinator:** Dr. Cynthia Ebere Nwobodo ([cynthia.nwobodo@unn.edu.ng](mailto:cynthia.nwobodo@unn.edu.ng) , 08039462574)

**Department:** Department of Agricultural Extension

**Website of the RG:** <https://www.unn.edu.ng/agriculture-for-development-a4d/>

**UNN email address of the RG:** [agric4development@unn.edu.ng](mailto:agric4development@unn.edu.ng)

#### Members:

Dr. Cynthia Ebere Nwobodo; Dr. Chukwuemeka Chiebonam Onyia  
Mr. Benson Uwakwe Asogwa; Mr. Sunday Alagba Obazi  
Mr. John Chukwuma Okoro; Dr. Ogochukwu Gabriella Onah  
Mr. Charles Ekene Udoye; Mr. Remiguius Ikechukwu Ozioko  
Mr. Kelvin Nnaemeka Nwangwu; Dr. Emmanuel Ejiofor Omeje  
Mr. Charles Ikenna Ukwuaba; Dr. Francis Chigozie Okoyeuzu

**Areas of research interest:** Agriculture and Food Systems, Climate Change and Rural Livelihoods

**Contact details of coordinator:** 08039462574

**Profiles and CVs of members:** (See the attached files)

Headshot of the coordinator



## ACADEMIC QUALIFICATIONS

Degree obtained	Institution attended	Class of degree
Ph.D in Agricultural Extension with specialization in Agricultural Communication	University of Reading, the 2017 United Kingdom and University of Nigeria, Nsukka	Distinction
M.Sc. degree in Agricultural Extension with specialization in Agricultural Communication	University of Nigeria, Nsukka 2012	Distinction
B. Agric. (Agricultural Extension)	University of Nigeria, Nsukka 2008	First Class Honours

## RECENT GRANTS

1. African Technology Policy Studies Network (ATPS) Grant on Artificial Intelligence for Agriculture and Food Systems Research and Innovation Grant on the Project titled: Using Artificial Intelligence to enhance the Production, Management and Marketing of Nsukka yellow Pepper (*Capiscum Chinese Nsukkadrilus*).
2. Open Society Foundation (OSF) Grant on the project titled: Building Trans-disciplinary Climate Change Adaptation in the University of Nigeria, Nsukka..
3. African Development Bank Grant for the AfricaRice CGIAR Support for Agricultural Research and Development of Strategic Crops in Africa (SARD SC) Project.
4. Association of Commonwealth Universities (ACU) Higher Education and the SDGs Challenge Grant-
5. Stockholm Environment Institute (SEI) Project No. 100039: "Bridging Climate Information Gaps to Strengthen Capacities for Climate Informed Decision-Making.
6. Association of Commonwealth Universities (ACU) Early Career Researcher Training Grant, £1000.
7. Commonwealth Community Engagement Fund for Sensitization Workshop on Careers in the Science, Technology, Engineering and Mathematics (STEM) for the Girl Child.
8. Merian Institute for Advanced Studies in Africa, College of Humanities (MIASA) Writing Workshop Grant, University of Ghana, 12<sup>th</sup> -16<sup>th</sup> April, 2021.

## RECENT PUBLICATIONS

1. Nwobodo Cynthia E et al (2022). Determinants of ruminant farmers' use of sustainable production practices for climate change adaptation and mitigation in Enugu State, Nigeria. *Frontiers of Veterinary Science*, 9: 735139. DOI: 10.3389/fvet.2022.735139 (Thompson Reuters).
2. Agwu E. A et al (2022). Digital Approaches in Agricultural Extension. In: Madukwe M. C. (ed.): *Agricultural Extension in Nigeria*, Ilorin: AESON, 148-168.
3. Ohagwu Violet et al
4. Nwobodo C. E. and Nwokolo B. (2021). Knowledge level of ruminant farmers on climate change in Enugu State, Nigeria. *Climate Change*, 7 (4): 52-58.
5. Nwobodo Cynthia E., Eze L. G., Ohagwu V. A., and Unagwu B. O. (2020). Perceived resilience capacity of rice farmers to climate change in Ebonyi State, Nigeria. *Journal of Agricultural Extension*, 24(4):8-16 (Scopus).

## **CHIGOZIE FRANCIS OKOYEZU (Ph.D)**

### EDUCATIONAL INSTITUTIONS ATTENDED WITH DATES:

University of Nigeria, Nsukka-	Ph.D (Food Engineering)	2018
University of Nigeria, Nsukka-	M.Sc. (Food Engineering)	2012
University of Nigeria, Nsukka-	Bachelors of Science (B.Sc.)	2006

### OTHER QUALIFICATIONS

UW Global Health e-Learning, USA-Fundamentals of Global Health Research	2020
UW Global Health e-Learning, USA- Global Health Project Management	2020

### RECENT PUBLICATIONS:

1. Ufondu, H.E., Maziya-Dixon, B., **Okoyezu, C. F et al** (2022). Effects of yam varieties on flour physicochemical characteristics & resultant instant fufu pasting & sensory attributes. Scientific Reports. [https://www.nature.com/srep/#:~:text=Journal%20Metrics,\(Clarivate%20Analytics%2C%202020](https://www.nature.com/srep/#:~:text=Journal%20Metrics,(Clarivate%20Analytics%2C%202020)
2. **Okoyezu, C. F.**, Okoronkwo, N. C., Eze C. R., Otuonye, C. V., Ufondu, H.E., Okpara, C.O.R. and Eze, J. I. (2022). Quality characteristics of date and wheat flour pineapple juice blended cookies as affected by different baking temperatures. PeerJ, <https://peerj.com/>
3. Uchegbu, N. N., Ude, C. N., **Okoyezu, C. F. et al** (2022). Optimisation of enzymatic fermented glucose production of wild cocoyam starch using response surface methodology. Global NEST International Journal, 24 (3): 351-361. [www.journal.gnest.org](http://www.journal.gnest.org)
4. Nwankwo, C. S., Edozie, P. C., Okpomor, E. O., Mbachiantim, J. T., **Okoyezu, C. F.**, et al (2022). Quality evaluation of zobo tea flavoured with clove and ginger packed in tea bags. African Journal of Agriculture and Food Science, 5 (1): 1-10.
5. **Okoyezu, C. F.**, Umego, E. C., Ikegwu, T. M. and Ijoma, V. C. (2020). Analytical study to screen the quality of ginger slices using different drying methods with various chemical pre-treatments. RAS Agricultural Science & Technology, 1 (1): 1 - 6.
6. Nwankwo, C. S., **Okoyezu, C. F.** and Ahamefula, I. (2020). Efficiency of a modified plastic tank as a bio-degradation system in Sub-Saharan African countries. Research in Agricultural Engineering, 66 (3): 89–96.

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### **DEPARTMENT OF AGRICULTURAL EXTENSION, UNN**

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2019- till date **Lecturer II**, department of Agricultural Extension, University of Nigeria,

### **Ikenna Charles Ukwuaba**

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ORCID ID : <https://orcid.org/0000-0002-3534-9785>

2018-Present Ph.D. in Agricultural Marketing and Agribusiness (In View)

University of Nigeria, Nsukka.

2015-2017 MSc in Agricultural Marketing and Agribusiness (**Distinction**)

University of Nigeria, Nsukka.

**2014 to Date: Department of Agricultural Economics, University of Nigeria, Nsukka**

## 2. Environment and Natural Resource Research Group

**Main Research Focus of the RG:** Research on environmental and natural resources. The broad objective is to contribute to natural resource and environmental sustainability in Nigeria through evidence-based research.

Title of most recent research project Strengthening the Capacity of Agricultural Extension Lecturers in Teaching Competency-Based Undergraduate Curriculum in Nigerian Universities - TETFund National Research Fund (NRF) – December 2022 – Date

### **A maximum of seven (7) other current or completed research projects**

- Strengthening Agricultural Extension Training in the MSU-Alliance for African Partnership (AAP) Consortium - The Alliance for African Partnership (AAP) 2021 Partnerships for Innovative Research in Africa (PIRA) Grant. Project Dates: May 2021 - May 2023.
- Assessing climate change-related losses and damages and adaptation constraints to address them: Evidence from flood-prone riverine communities in Southern Nigeria.
- Stemming rural-urban migration through agricultural development: Can Nigeria apply the lessons from the COVID-19 pandemic?
- Gender-Specific Livelihood Strategies for Coping with Climate Change-Induced Food Insecurity in Southeast Nigeria.
- Climate Change Vulnerability and Adaptation in Riverine Communities of Southern Nigeria - 2017

**Name of the Coordinator:** Professor Agwu Ekwe Agwu

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**Phone number of the coordinator:** +234-8034024251

**Base Faculty/ Institute /Center of the RG:** Faculty of Agriculture

**Department of the Coordinator:** Department of Agricultural Extension

- **Agwu Ekwe Agwu**, a Professor who teaches in the Department of Agricultural Extension is also a Senior Research Fellow at the Resource and Environmental Policy Research Centre (REPRC), University of Nigeria Nsukka and equally the Director, University of Nigeria, Nsukka Water Resources Management Laboratory Limited. He obtained his professional training at the University of Nigeria Nsukka where he graduated with a Bachelor of Agriculture Degree in Agricultural Extension (**with First Class Honors**) in 1994; a Master's degree and Doctorate degree in 1997 and 2000, respectively. He has been involved in teaching and research in agricultural communication, rural development, extension policies and institutional reforms, as well as, agricultural innovation systems, agro technology generation, transfer and use since 1995. Professor Agwu has consulted extensively on issues of Resettlement Policy Framework (RPF); Resettlement Action Plan (RAP), Environmental and Social Management Plan (ESMP), effective communication platforms, natural resources management; rural development, value chain analysis

and climate change adaptation and food security (using the innovation system framework). He has published widely in national and international scholarly journals with over One Hundred and forty (150) publications to his credit and has supervised over thirty - five (35) postgraduate, as well as, over fifty (50) undergraduate students. Professor Agwu was the Dean, Faculty of Agriculture, University of Nigeria Nsukka from August 2018 to July 2020; Director, University of Nigeria Agricultural Projects Limited (UNAPL) between January 2015 and December 2018; National President of Agricultural Extension Society of Nigeria (AESON) for two tenures 2014 - 2016 and 2016 – 2018. He was also the Head, Department of Agricultural Extension, University of Nigeria, Nsukka; Assistant Director, External Studies, Office of the Vice Chancellor, UNN as well as a Development Officer to the Vice Chancellor of the University of Nigeria between 2009 and 2014. Prof Agwu coordinated the dissemination of proven technologies using the Adopted Village Concept in communities around the University of Nigeria, for the West Africa Agricultural Productivity Programme (WAAPP), a World Bank assisted Programme for the countries of Economic Community of West African States (ECOWAS), under the Agricultural Research Council of Nigeria (ARCN) between 2013 - 2017.

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Website: <https://www.efdinitiative.org/about-efd/people/agwu-ekwe-agwu>

- **Ebele Amaechina** is a Senior Lecturer in the Department of Agricultural Economics, and a Senior Research fellow at the Resource and Environmental Policy Research Center (REPRC), University of Nigeria, Nsukka. She has a Ph.D in Agricultural Economics with specialization in the field of Natural Resource and Environmental Economics. Her special interest in this field is climate change, fisheries, forestry, energy and water. She has participated in many research studies which border on natural resources management, gender, poverty and other developmental issues. Dr Amaechina is a member of many national and international professional associations and has presented papers in several conferences. She has published in many international and national peer reviewed journals and contributed to book chapters. She is a Fellow of the African Women in Agricultural Research and Development (AWARD).

Google

scholar:[https://scholar.google.com/scholar?hl=en&as\\_sdt=0%2C5&q=ebele+amaechina&oq=](https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=ebele+amaechina&oq=)

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- **Innocent Ifelunini** is a lecturer in Economics at the University of Nigeria, Nsukka and a Research fellow at the Resource & Environmental Policy Research Centre, Environment for Development Initiative, Nigeria. He has Master's (2005) and a PhD (2012) in Development Economics from the University of Nigeria, Nsukka. Before joining the University of Nigeria, Innocent worked as a Research Assistant with African Institute for Applied Economics (now African Heritage Institution) and also as a Programme Specialist in the South-East Zone of the Central Bank of Nigeria Entrepreneurship Development Programme. He is a researcher at the African

Economic Research Consortium, Nairobi, Kenya and also an Alumnus of African Programme on Rethinking Development Economics (APORDE), Johannesburg, South Africa. His research interests include Development Economics-Poverty and Income Distribution, Monitoring & Evaluation, Climate Change, environment and economic growth, plastic Pollution and waste management.

ORCID ID: <https://orcid.org/0000-0001-5982-1143>

Google scholar: <https://scholar.google.co.in/citations?user=kRRTS2IAAAAJ&hl=en>

Research gate links: <https://www.researchgate.net/profile/innocent-ifelunini>

Website: <https://www.efdinitiative.org/about-efd/people/ifelunini-innocent>

- **Ifeoma Quinette Anugwa** is a Senior Lecturer in the Department of Agricultural Extension, University of Nigeria, Nsukka, and a Research Fellow at the Resource and Environmental Policy Research Centre, University of Nigeria Nsukka. She obtained her First degree in Agricultural Extension (with First Class honours) and Master's degree in Agricultural Communication (Distinction grade) in the University of Nigeria, Nsukka. She emerged as the best graduating student both in the Department of Agricultural Extension and Faculty of Agriculture in the 2008/2009 academic session. She has about twelve years of teaching and interdisciplinary research experience in agriculture, climate vulnerability and resilience, digital technologies, environmental policy, environmental economics, extension systems, food security, food system transformation, gender, rural livelihoods, sustainable development, and trans-disciplinary integration. She has worked extensively in some international and national agricultural research projects including, but not limited to the revitalization of agricultural extension training in Africa, climate change awareness, vulnerability and indigenous adaptive capacities, gender-based food security related projects, among others. Her international reputation for climate change, food security and gender-based studies has resulted in the award of project grants, fellowship, publications in reputable international journals, and travel grants to international conferences. She is also a member of several international and national professional bodies.

Google Scholar: <https://scholar.google.com/citations?user=r7cXXb0AAAAJ>

Research gate Profile: <https://www.researchgate.net/profile/Ifeoma-Anugwa>

Website: <https://www.efdinitiative.org/about-efd/people/anugwa-ifeoma-quinette>

- **Umeonuora, Tochukwu Georgina** is a Lecturer in the Department of Agricultural Economics, University of Nigeria, Nsukka (UNN). She is also, a research fellow in Resource and Environmental Policy Research Centre, Environment for Development, (REPRC-EfD) Nigeria and Environmental and Natural Resource Research Group, UNN. She obtained her first degree in Agricultural Economics and MSc degree in Resource and Environmental Economics. Tochukwu is currently studying for her doctoral degree in Resource Economics in the Department of Agricultural Economics, University of Ibadan, Nigeria. She has published papers in international and national peer reviewed journals. Also, she has attended various trainings including Econometric for policy Analysis, Innovative Thinking in Research, Teaching and Learning, and Academic Writing and Communication Research in Ghana and within Nigeria. Her research interest includes natural resource management, sustainable forest management, forest economics, climate change,

environment, energy issues, biodiversity conservation, sustainable agriculture, food security, gender, and rural development.

Google scholar: <https://scholar.google.com/citations?hl=en&user=xN9VYRIAAAAJ>

Research gate link: <https://www.researchgate.net/profile/Tochukwu-Mbani-2>

UNN Website url: <https://www.unn.edu.ng/internals/staff/viewProfile/Mzc5Nw-->

- **Okwo Clementina Ann**, is a post graduate student in the Department of Agricultural Economics, Faculty of Agriculture, University of Nigeria Nsukka. She obtained her B. Agric from the Department of Agricultural Economics, University of Nigeria Nsukka and currently M.Sc. Student of Agricultural Economics department, University of Nigeria, Nsukka. Her study was on gender and time use among farmers in Nsukka Agricultural Zone, Enugu state Nigeria. Currently she is working on “Adaptation to Climate Change among Crop Farmers in Enugu State, Nigeria” (M.Sc. thesis). Her research interest is in Climate Change, forestry water and Agribusiness.

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- **Clement Okechukwu Attamah** is a Lecturer in the Department of Agricultural Extension, University of Nigeria, Nsukka, where he obtained his first degree with an award of the Best Graduating Student of the department. Clement holds a master’s degree in Agricultural Programme and Evaluation from the same University. He is currently on his Ph.D. at the University of Cape Coast, Ghana, under the Regional University Forum for Capacity Building in Agriculture (RUFORM). He is a member of the Agricultural Extension Society of Nigeria (AESON) and reviews for the Asian Journal of Agricultural Extension, Economics & Sociology among others. His research interests include impact evaluation, agricultural programme planning, rural development, food security, gender, and climate change studies.

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Scholar

link:

<https://scholar.google.com/citations?hl=en&user=fW2ZUcwAAAAJ>

Research gate Link: <https://www.researchgate.net/profile/Clement-Attamah>

Website: <https://staffprofile.unn.edu.ng/profile/3951>

- **Chidinma Frances Ifeonu**, is a Research Fellow at the Resource and Environmental Policy Research Centre (REPRC), Environment for Development (EfD), University of Nigeria, Nsukka. She obtained her professional training at the University of Nigeria Nsukka where she graduated with a Bachelor of Agriculture in Agricultural Extension in 2015 and a Master’s degree in Agricultural Extension Development Communication in 2020. She is currently pursuing a Ph.D. degree at the University of Nigeria Nsukka. Chidinma is currently a Research Assistant on two projects, namely, “Sustainable Management of Marine Resources Research” Project and “Coping with Water Scarcity, Preference and Willingness to Pay for Water Supply in Enugu State”, under the Resource and Environmental Policy Research Centre (REPRC), Environment for Development (EfD), Nigeria since 2019. She has facilitated research works on food safety, food security, hygiene practices, effective agricultural communication channels, and Opinion Poll Rating of the Nigerian Communications Commission. Chidinma also facilitated the socio-economic studies and field data collection on the Resettlement Action Plans (RAPs) and Environmental and Social Management Plans (ESMPs) for different Erosion



Sites in Kogi State under the Kogi State-Nigeria Erosion and Watershed Management Project (KSG-NEWMAP), (IBRD/ IDA Financed Project) between 2017 and 2021. Miss Ifeonu has attended various international training on the use of different research tools for data collection and analysis such as KoBo Toolbox, Global Open Data Management in Agriculture and Nutrition (GODAN), R programming language, Discrete Choice Analysis, STATA, NGENE, Impact Evaluation and Causal Inference for Environment and Development Interventions, among others.

ORCID: <https://orcid.org/0000-0001-7014-8906>

Google scholar link:

<https://scholar.google.com/citations?user=0Xi6qmcAAAJ&hl=en>

Research gate link: <https://www.researchgate.net/profile/Chidimma-ifeonu>

Website: <http://www.efdinitiative.org/about-efd/people/ifeonu-chidinm-frances>

### 10 key publications of the RG from 2019 till date

- Agwu A. E et al (2023). Micro-Hydropower Systems for Smallholder Farmers in Rural Communities of Taraba State, Nigeria: Socioeconomic Assessment of Needs and Perceptions (Part I), *Energy Nexus* 10 (1 -12) doi:
- Amaechina, E.C et al (2022). Assessing climate change-related losses and damages and adaptation constraints to address them: Evidence from flood-prone riverine communities in Southern Nigeria. *Environmental Development*, 44, 100780.
- Agwu, A.E., Ifeonu, C.F., Nwobodo, C.E., Anugwa, I.Q., and Okoro, J.C. (2022). "Digital Approaches in Agricultural Extension". In M. C. Madukwe (Ed.), *Agricultural Extension in Nigeria: Appropriate Extension Methodologies for Agricultural Development in Emerging Economies* (3<sup>rd</sup> ed). (pp 331-357). Ilorin, Kwara State: The Agricultural Extension Society of Nigeria.
- Okpara, U.T. & Anugwa, I.Q. (2022). Harms to community food security resulting from gender-based violence. *Land*, 11 (12), 2335. <https://doi.org/10.3390/land11122335> (Special Issue 'Climate, Land, Food Security and Sustainable Peace')
- Chukwuone NA, Amaechina EC, Ifelunini I.A (2022) Determinants of household's waste disposal practices and willingness to participate in reducing the flow of plastics into the ocean: Evidence from coastal city of Lagos Nigeria. *PLoS ONE* 17(4)
- Agwu E. Agwu et al (2021). Stemming rural-urban migration through agricultural development: Can Nigeria apply the lessons from the COVID-19 pandemic? *Journal of Tropical Agriculture, Food, Environment and Extension*, (Special Issue, October, 2021), 20 (4), 36 – 45. DOI: <https://dx.doi.org/10.4314/as.v20i4.5>
- Ifeoma Q. Anugwa et al (2021). Farmers' preferences and willingness to pay for climate-smart agricultural technologies on rice production in Nigeria. *Climate Policy*, 22 (1), 112 – 131. DOI: 10.1080/14693062.2021.1953435
- Ifeoma Q. Anugwa, Esther Uzochukwu and Sunday A. Obazi (2021). Knowledge and attitude of farmers toward the adoption of pro-vitamin A bio-fortified cassava in Anambra State, Nigeria. *Discovery Agriculture*, 7 (17), 101 – 109.

- Jane, M. Chah, Ifeoma Q. Anugwa and Ifeanyi, M. Nwafor (2020). Factors driving adoption and constraining the non-adoption of orange-fleshed sweet potatoes (OFSP) among farmers in Abia State, Nigeria. *Journal of Agriculture and Rural Development in the Tropics and Sub-tropics*, 121 (2), 173 – 183.
- Anugwa, I.Q., Agwu, A.E., Suvedi, M. and Suresh, B. (2020). Gender-specific livelihood strategies for coping with climate change-induced food insecurity in Southeast Nigeria. *Food Security* (2020).
- Ifeonu, C. F., Chukwuemeka, V., Agwu, A. E (2019). Challenges of Youths Involved in Fish Farming in the Federal Capital Territory, Abuja, Nigeria. *Journal of Agricultural Extension*, Vol. 23 (3). Pp. 157-171.
- Agwu, A. E., Ndakotsu, J. E., Ifeonu, C. F (2019). Farmers' Perceived Effectiveness of the Growth Enhancement Support Scheme in Kogi State, Nigeria. *Journal of Agricultural Extension*, Vol. 23 (1). Pp. 113-129.

### 3. FAMILY AND SOCIETY RESEARCH GROUP

#### Main research focus and other areas of research interest of the RG:

- Childhood training and education;
- Family and societal well-being;
- Special needs children;
- Mental health;
- Information communication technology;
- Clinical and developmental psychology;
- Science of home management

**Most recent research project:** Impact of cognitive skills improvement program on the reading and writing skills of dyslexic children

**Name of the Coordinator:** Dr. Franca O. Okechukwu

**UNN email address of the RG:** [family.societyrg@unn.edu.ng](mailto:family.societyrg@unn.edu.ng)

**UNN email address of the coordinator:** [franca.okechukwu@unn.edu.ng](mailto:franca.okechukwu@unn.edu.ng)

**Website of RG:** <https://www.unn.edu.ng/family-and-society-research-group/>

**Phone number of the RG:** 07054181851

**Phone number of the coordinator:** 08069627637

**Base Faculty of the RG:** Faculty of Agriculture

**Department of the Coordinator:** Home Science and Management

#### List and brief profiles of members:

- Dr. Franca Obiageli Okechukwu was born at Agulu in Ana-ocha LGA of Anambra State, Nigeria on 4th April, 1968. She began her academic pursuit in 1974 at Ezeanyanwu Primary school Agulu in Anambra state, Nigeria. In the year 1981, she started her secondary education at Queen of the Rosary secondary school, Nsukka in Enugu state, Nigeria. Franca started her University education in the year 1988 at University of Nigeria, Nsukka Nigeria where she also obtained her second and third degree in the year 2014 in the field of Home Economics (Child Development). Franca Obiageli Okechukwu is a Senior lecturer of Child Development and Family Studies

and currently the coordinator Child Development Laboratory of the Department Home Science and Management. She has served in different capacities as an academia and administration including: Coordination of Child Development laboratory and related courses, Development of Home Science post graduate curriculum, serving in different Faculty and Departmental committees. She teaches and supervises undergraduate as well as postgraduate students. She is a member of the monitoring team for National Examinations Council (NECO) in Nigeria from 2008 to date. She is also a facilitator in the National Open University of Nigeria from 2017. In the year 2019 Family and Society Research Group was registered in the University to carry out a National study on "Impact of Cognitive Skill Intervention PROGRAMME on the Reading and Writing Abilities of Dyslexic Primary School Children in Nigeria" and Franca was the Principal Researcher for the group. In the year 2022 she and most members of the research group formed an academic Association named: Association for Family and Society Scientists and she is the founding president of the Association. The association plans and hosts annual academic conference and publishes two yearly issues in her peer reviewed journal publications. Franca has published a good number of researched journal articles in both international and national recognized journals. Research gate link: <https://www.researchgate.net/profile/Franca-Okechukwu>  
 Google scholar citation : <https://scholar.google.com/citations?hl=en&user=tqcPAJ0AAAAJ>  
 UNN CV Link: <https://www.unn.edu.ng/internals/staff/viewProfile/MzM4OA-->

- Prof. Philip Chukwuemeka Mefoh is a Professor of Experimental Psychology in the Department of Psychology, University of Nigeria, Nsukka. His research interest lies in the area of cognitive processes and general/indigenous psychology. Professor Philip C. Mefoh received the Ph.D Degree in Experimental Psychology from the University of Nigeria Nsukka in 2009. His PhD thesis won both the Faculty Prize and the Vice Chancellor's Postgraduate Prize for the overall best PhD thesis in the University of Nigeria, Nsukka for 2008/2009 academic session. Professor Mefoh is a Fellow of the Nigerian Psychological Association (NPA) and was formerly Vice President of the Association between 2011 and 2017. [<https://www.unn.edu.ng/Philip.mefoh>]  
 Google Scholar Citation Link: <https://scholar.google.com/citations?user=F6JpPN4AAAAJ&hl=en>  
 UNN CV Link: <https://www.unn.edu.ng/internals/staff/viewProfile/NDk5>  
 Research gate link: <https://www.researchgate.net/profile/Philip-Mefoh>
- Dr Nnubia Uju Ifeoma was born on 29<sup>th</sup> June 1976 to Rev. Canon and Mrs E.I Alutu. She hails from UruaguNnewi in Nnewi North L.G.A of Anambra State. She obtained her primary education from Central School Nsukka, Central School and Development Primary School Nsugbe. She had secondary education from Holy Innocents' Juniorate Convent Nkpor, Anambra State. She got her Nigeria Certificate in Education from Anambra State College of Education now NwaforOrizu College of Education Nsugbe, where she also obtained her first degree. She later had her Master's Degree at the University of Nigeria Nsukka. She has taught in several schools in Lagos State including Caleb International College, Kembos College and Lagos Anglican Girls Grammar School, before being appointed as an assistant lecturer at the University of

Nigeria Nsukka in 2017. She is currently a PhD holder and Lecturer 1 in the Department of Home Science and Management in the area of Family and Child Studies.

UNN link to CV: <https://www.unn.edu.ng/internals/staff/viewProfile/MzM5OQ-->

Google Scholar citation link: <https://scholar.google.com/citations?user=0hTF8B4AAAAJ&hl=en&scioq=Nnubia+Uju+lfeoma>

Research Gate citation link: <https://www.researchgate.net/profile/Nnubia-Uju/research>

- Dr. Ogba, Kalu Timothy Uyor, is a PhD (Social Psychology) holder and lecturer at the Psychology Department, University of Nigeria, Nsukka where he has taught a number of courses. He obtained his first, second and third degrees from Psychology department, University of Nigeria, Nsukka. He belongs to a number of professional, religious and social organizations. To his credit are numbers of publications that mainly centered on personality, home safety, suicide, health & wellbeing and other nagging societal issues.

UNN website URL: <https://www.google.com/search?q=unn+website+url++for+kalu+ogba>

Google scholar citation link: <https://scholar.google.com/citations?user=sNBK6WoAAAAJ&hl=en>

Research gate Link: <https://www.researchgate.net/profile/Kalu-Ogba>

- Mrs. Ezinne Nwauzoije Judith (Nee Nnodim) is an Assistant Lecturer of Family and Child Studies in the department of Home Science and Management, Faculty of Agriculture, University of Nigeria Nsukka. She obtained her B.Sc and M.Sc from the aforementioned department and institution. She is passionate about children and thus her research is inclined to children related topics such as childhood literacy, curriculum development, learning disabilities, development of intervention programs for children with learning disability, teacher-pupil relationship, role of classroom and home environment in child development, school readiness, family-child relationship amongst others. She has attended several conferences both national and international and has published over 15 articles in both national and high impact factor journals.

UNN profile URL: <https://www.unn.edu.ng/internals/staff/viewProfile/MzM5Ng--/>

Google Scholar Citation Link: [https://scholar.google.com/citations?hl=en&user=ISSiVU8AAAAJ&view\\_op=list\\_works&authuser=2&gmla=AJsN-F6-](https://scholar.google.com/citations?hl=en&user=ISSiVU8AAAAJ&view_op=list_works&authuser=2&gmla=AJsN-F6-)

[k\\_tMyrgjQOTOzbOiXBTaZZyb9AbBjBLx2X086xoss6fldL\\_3n-](https://scholar.google.com/citations?hl=en&user=ISSiVU8AAAAJ&view_op=list_works&authuser=2&gmla=AJsN-F6-k_tMyrgjQOTOzbOiXBTaZZyb9AbBjBLx2X086xoss6fldL_3n-)

[UB7NDNegclfQ6lPhjTqSfEVAEcioSmSSD-b\\_tflj4GaNY9enk0V2yP5qVXO9E](https://scholar.google.com/citations?hl=en&user=ISSiVU8AAAAJ&view_op=list_works&authuser=2&gmla=AJsN-F6-UB7NDNegclfQ6lPhjTqSfEVAEcioSmSSD-b_tflj4GaNY9enk0V2yP5qVXO9E)

Research Gate Link: <https://www.researchgate.net/profile/Ezinne-Nnodim/research>

- Mrs. Umennuihe Chidiogo Lovelyn was born on 7th October 1994 to Ven. F. O. and Mrs F. N. Ezeonyeche. She hails from Uga in Aguata L.G.A of Anambra State. She obtained her First School Leaving Certificate (FSLC) from Central School, Umuoji, Anambra state. Senior School Certificate was obtained from St. John of God Secondary School, Awka, Anambra state. She got her Bachelor of Science degree in

Home Science from the University of Nigeria, Nsukka Enugu state. She went on to serve as a secondary school teacher in Danja L.G.A of Katsina state during the one year compulsory National Youth Service which ended in April, 2017. She also obtained a Postgraduate Diploma in Education from Ahmadu Bello University, Zaria Kaduna state. This was followed by her appointment as a graduate assistant in the Department of Home Science and management, University of Nigeria, Nsukka and she went on to obtain a Master of Science degree in the area of Family and Child Studies from the same department.

Link to CV on UNN Website: <https://www.unn.edu.ng/internals/staff/viewProfile/MzM5NA-->

Research gate link: <https://www.researchgate.net/profile/Chidiogo-Umennuihe>

Google scholar citation link:

[https://scholar.google.com/citations?hl=en&view\\_op=list\\_works&gmla=AJsN-F6ZnKX8Nv9BP23N4wnb4xNZGrpGI8bhrLZ3CiZqNlv3BBv3IMrZ0GQiaKNKQLZ0nCluE49HAKpZN5mu0FhGMR1gBJu7Lw&user=Up-6ghwAAAAJ](https://scholar.google.com/citations?hl=en&view_op=list_works&gmla=AJsN-F6ZnKX8Nv9BP23N4wnb4xNZGrpGI8bhrLZ3CiZqNlv3BBv3IMrZ0GQiaKNKQLZ0nCluE49HAKpZN5mu0FhGMR1gBJu7Lw&user=Up-6ghwAAAAJ)

- Mrs. Nwobi Chibundo Adaobi was born on 6<sup>th</sup> of December, 1992 to Prof. T. M. Okonkwo and Dr. Mrs. S. C. Okonkwo. She is a native of Etiti-Awovu, Enugwu-Ukwu in Njikoka L. G. A. of Anambra State. She obtained her primary and secondary education from University Primary School, Nsukka and University of Nigeria Secondary School, Nsukka respectively. In 2013, she was awarded the Bachelor's degree in Home Science, from the University of Nigeria, Nsukka. Subsequently in 2021, she obtained her Master's degree in Home science from the University of Nigeria, Nsukka. Mrs. Nwobi has served as a teacher at Gleaming Moon Classic, Umuahia, Abia State in 2012 and as a Clerical Officer in University of Calabar, Cross-River state from 2014-2015, before being appointed as a Graduate Assistant at the University of Nigeria, Nsukka in 2016. Currently, she is an Assistant Lecturer in the Department of Home Science and Management, in the same institution. In addition, she is currently pursuing her Ph.D. in the area of Family Resource Management in the Department of Home Science and Management, U. N. N.

UNN link to CV: <https://homescience.unn.edu.ng/wp-content/uploads/sites/131/2018/04/STAFF-PROFILE-Okonkwo.docx>

Google Scholar citation link: [https://scholar.google.com/citations?view\\_op=list\\_works&hl=en&authuser=1&hl=en&user=2zpkYzMAAAAJ&authuser=1](https://scholar.google.com/citations?view_op=list_works&hl=en&authuser=1&hl=en&user=2zpkYzMAAAAJ&authuser=1)

Research Gate citation link: <https://www.researchgate.net/profile/Chibundo-Nwobi>

- Dr Chinenye Joseph Aliche is a clinical psychologist, and a psychology lecturer in the department of psychology, University of Nigeria, Nsukka, Nigeria. He is also a staff on paroral appointment at the Social Science Unit, School of General Studies of the same institution where he teaches Peace and Conflict Studies. He had his Doctorate Degree recently in the area of clinical psychology, and his research interest is on trauma, positive psychology and wellbeing. He has over 15 journal articles published in many reputable international journals including Aging and Mental Health, International Journal of Stress and Health, Psychology, Health and Medicine, International Journal

of Nordic Psychology, International Journal of Loss and Trauma, South African Journal of Psychology, Journal of Religion and Health among many others.

UNN CV URL: <https://sgs.unn.edu.ng/staff-profile-2/>

Google scholar citation link:  
<https://scholar.google.com/citations?user=ASilfwwAAAAJ&hl=en>

Research Gate link: <https://www.researchgate.net/profile/Joseph-Aliche>

- Dr. OGBONNAYA, Ezeda Kalu was born on 5<sup>th</sup> August, 1970 in Bamenda, Cameroun. She is a lecturer 2 in the department of Home Economics and Hospitality Management Education, Faculty of Vocational and Technical Education, University of Nigeria, Nsukka. She obtained her NCE from federal College of Education, Obudu. She obtained her B.Sc. Home Economics, M.Ed. Home Economics (Child Care and Development Education) and Ph.D. Home Economics (Child care) from the University of Nigeria, Nsukka. She has attended a good number of local and international conferences and has numerous publications to her credit. She is an active member of professional organization such as Home Economics Research Association of Nigeria, Association for Family and Society Scientists and International Federation of Home Economists among others.

UNN CV URL: <https://www.unn.edu.ng/internals/staff/viewProfile/Mjk1MA--/>

**Publications of the RG:**

Development and validation of a teacher awareness questionnaire about dyslexia. *South african journal of childhood education*, 13(1), 1-7. [scimago impact factor 0.23]  
doi: <https://doi.org/10.4102/sajce.v13i1.1228>

#### 4. Food Security and Sustainable Environment Research Group

**Main Research Focus:** Agriculture, food security, environment, policy and development research, and advocacy

**Other areas of research interest:**

**Most recent research project:** Understanding consumer behaviour and incentive-based policy option for plastic waste reduction in Nigeria

**Maximum of seven (7) other current or completed research projects:**

- Gender based analysis of the impact of COVID 19 pandemic on income and food security of households in Nigeria 2023
- Policy research partnership for pragmatic evaluation for climate change adaptation and development models in Agricultural Energy sector in Africa 2023
- Estimation of Participation and welfare impacts of REDD+ community-based pilot projects in Nigeria 2022
- Assessing climate smart Agricultural Practices in Nigeria 2021
- Eco-regional assessment and mapping of climate change impact and adaptation in West Africa 2019
- Impact of climate extreme even on the incidence of poverty in Nigeria, sponsored by Climate Analytics, Germany, 2016

**Name of the coordinator:** Professor NwaJesus Anthony Onyekuru

**UNN email address of the RG:** [fosserg.research@unn.edu.ng](mailto:fosserg.research@unn.edu.ng)

**UNN email address of the coordinator:** [anhony.onyekuru@unn.edu.ng](mailto:anhony.onyekuru@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/food-security-and-sustainable-environment-research-group/>

**Phone number of the RG:** 08163189534

**Phone number of the coordinator:** 08163189534

**Base Faculty/Institute /Centre of the RG:** Faculty of Agriculture

**Department of the coordinator:** Department of Agricultural Economics

**List and brief profiles of members:**

- NwaJesus Anthony Onyekuru is a Professor of Resource and Environmental Economics.

He holds a National Diploma in Agricultural Technology, then a first class bachelors degree in Agricultural Economics, an MSc in Resource and Environmental Economics, both from the University of Nigeria and a Ph.D in Environmental Science from the University of York, UK, under the Commonwealth Scholarship Commission.

He is a staff of the Department of Agricultural Economics where he has been engaged in teaching and research for over 5 years. He is also a Senior Research Fellow of the Resource and Environmental Policy Research Centre, EfD of the University of Nigeria.

His areas of specialization are project management, climate change impact and adaptation modelling and policy, environmental assessment, Monitoring and valuation, feasibility study / analysis and policy analysis.

<https://www.efdinitiative.org/about-efd/people/onyekuru-nwajesus-anthony>

Google scholar: <https://scholar.google.com/citations?user=lyY-blAAAAAJ&hl=en>

Research gate: <https://www.researchgate.net/profile/Nwajesus-Onyekuru>

- Ichoku, Ementa Hyacinth is a Professor of Economics with the Department of Economics, University of Nigeria, Nsukka, currently on leave to Veritas University, Abuja. He is a Senior Research Fellow in EfD Nigeria. He is a Development Micro-economist with strong interest in Health Economics, Public Finance and Environment. His academic training started with degrees in philosophy and Divinity in 1984 and 1988, respectively. He obtained a Masters and Ph.D degrees from the University of Cape Town, South Africa, in 2000 and 2006, respectively He has taught and published over 40 papers in international peer reviewed journals in the fields of health economics and development microeconomics.

UNN website url: <https://www.efdinitiative.org/aboutefd/people/ichoku-ementa-hyacinth>

Google Scholar: <https://scholar.google.com/citations?user=CXWs95AAAAAJ&hl=en>

Research gate links <https://www.researchgate.net/profile/Hyacinth-Ichoku>

- Eric Eboh is a Professor of Agricultural Economics, University of Nigeria, Nsukka (UNN) since 2002 and member, Policy Advisory Panel, Resource and Environmental Policy Research Centre (REPRC), UNN. He is also a Senior Research Fellow in EfD Nigeria. His special research interests include sustainable resource management, agro-environmental economics, agricultural value chain, agribusiness, policy assessments and impact evaluation

UNN website: <https://www.efdinitiative.org/about-efd/people/eboh-eric>

Research gate links: <https://www.researchgate.net/scientific-contributions/Eric-Eboh-2055745820>

- Professor Emmanuel O. Nwosu is a graduate of the Department of Economics, UNN with first class honours degree in Economics. In 2005, he obtained master's degree in monetary economics from the same university and was appointed assistant lecturer in the Department of Economics in 2007. He was selected for the Joint Japan/World Bank Graduate Scholarship in 2007 for a two-year Master of Arts in Economic Policy Management (with major in International Development) at the Graduate School of Humanities and Social Sciences, University of Tsukuba, Japan. He completed PhD in Development in Economics in 2013 at the University of Nigeria. Nwosu was promoted to the rank of Professor in 2021. He has taught graduate and undergraduate courses for more than 15 years. He was the Acting Head, Department of Economics between August 2020 and July 2022. He is a researcher at the African Economic Research Consortium (AERC), Nairobi Kenya, a researcher at the Partnership for Economic Policy (PEP), University of Laval, Canada; a researcher at the Center for Environmental and Economic Policy in Africa (CEEPA) University of Pretoria and was a Visiting Scholar at the International Monetary Fund (IMF), Washington D.C in 2011. He is a Senior Research Non-Resident Fellow at the Centre for the Study of Economics of Africa (CSEA), Abuja Nigeria. He has served as a Policy Analyst at the Office of the Minister of Finance and Coordinating Minister for the Economy, and Senior Technical Assistant PERL-ARC Economist Programme, for the Staff of the Political and Economic Affairs Office at the Office of the Secretary to Government of the Federation (SGF). His areas of research interest include Development Microeconomics (health economics, poverty, gender, and income distribution), Environmental Economics, Migration and Economic Policy. Google Scholar: <https://scholar.google.com/citations?user=IWeXPX0AAAAJ&hl=en>  
Research gate links: <https://www.researchgate.net/profile/Emmanuel-Nwosu>
- Chukwuma Ume is a lecturer at the department of Agricultural Economics, University of Nigeria. He is currently doing his PhD at the Center for International Development and Environmental Research, Justus Liebig University, Germany. He holds a master's degree in Environment and Development from the sustainability research institute, University of Leeds, and bachelor's degree in Agricultural Economics (First Class and overall best graduating student of the University, 2013/2014 session). He was awarded the Right Livelihood Junior Research Scientist Award in Environmental and resource management by the Centre for Environment and Development Research/ Zentrum für Entwicklungsforschung (ZEF) UN-Campus University of Bonn. His current research focuses on Agroecology and modelling of Socio-Ecological Systems. UNN website: <https://www.unn.edu.ng/internals/staff/viewProfile/MzgwMQ--/8>  
Google Scholar: <https://scholar.google.com/citations?user=HQIZfe4AAAAJ&hl=en>  
Research gate links: <https://www.researchgate.net/profile/Chukwuma-Ume>
- Oranu, Chizoba Obianuju is a lecturer in the Department of Agricultural Economics, University of Nigeria, Nsukka. Her research interest is in forestry, fishery, gender, climate change and welfare analysis. UNN website: <https://www.unn.edu.ng/internals/staff/viewProfile/NDY3OQ-->  
Google Scholar: [https://scholar.google.com/citations?user=5\\_kGgbsAAAAJ&hl=en](https://scholar.google.com/citations?user=5_kGgbsAAAAJ&hl=en)  
Research gate links: <https://www.researchgate.net/profile/Chizoba-Oranu>
- Kelechi Ugwuanyia's research interest is critical heritage studies, cultural landscapes, indigenous knowledge systems, museum, and contemporary archaeology. His past



research explored the negotiation between global heritage discourse and existing beliefs and value systems in the context of the village arena or "square" (a cultural and historical landscape) among the Igbo of southeast Nigeria. Kelechi has also studied human-nature relational ontologies focusing particularly on human-tree and human-animal connectivity in the same region of Nigeria. His current research at the Global Heritage Lab, University of Bonn revisits the originating communities of ethnographic archives collected from Africa during colonialism to re-engage members of the descendant communities through the lens of sacred landscapes to understand their changing significance in the present. Kelechi is a postdoctoral research fellow at the University of Bonn and a senior lecturer at the University of Nigeria, Nsukka. He had his PhD in heritage studies from the University of York and an MA in Cultural Resource Management and Tourism, a BA in Archaeology and Tourism as well as a Diploma in Tourism and Museum Studies from the University of Nigeria. He is a co-editor of the Journal of African Cultural Heritage Studies and sits on the editorial board of the Studies in Contemporary and Historical Archaeology in Theory book series published by the Archaeopress in Oxford.

UNN website: <http://www.archy-tourism.unn.edu.ng/wp-content/uploads/sites/295/2021/07/Dr.-J.-Kelechi-Ugwuanyi-for-UNN-Website.pdf>

Google Scholar: <https://scholar.google.com/citations?user=DcSnjmYAAAAJ&hl=en>

Research gate link: <https://www.researchgate.net/profile/J-Kelechi-Ugwuanyi-2>

- Dr. Chinasa Sylvia Onyenekwe is a lecturer and a researcher in the Department of Agricultural Economics, University of Nigeria. Her research interests are in the broad area of production economics and farm management, natural resource and environmental economics and specifically in climate change, pollution, energy issues; Gender and Development; agrifood systems, poverty and food security issues and Rural Development issues. She obtained both her bachelors and masters degree from University of Nigeria where she graduated with First Class Honours Division. She later proceeded to University of Ghana for her doctoral degree in Applied Agricultural Economics and Policy which she obtained in 2018. Her PhD thesis was on the effects of climate shocks, environmental degradation and resource conflict on agricultural livelihoods and food security. Her professional experience include teaching, supervision, as well as conducting research on various societal issues. Also, she has experience in handling administrative duties having chaired some committees and served as member in several others. She has published papers in both local and international peer-reviewed journals as well as attended and presented papers in national and international academic conferences. She belongs to several professional bodies such as International Association of Agricultural Economists (IAAE), Nigeria Association of Agricultural Economists (NAAE), Agricultural Policy Research Network (APRNet). She can be reached via her email address [chinasa.onyenekwe@unn.edu.ng](mailto:chinasa.onyenekwe@unn.edu.ng) and her mobile number +2348036545790; +2349012654333.

UNN website: <https://www.unn.edu.ng/internals/staff/viewProfile/MzI0>

Google Scholar Citation link: [https://scholar.google.com/citations?user=NdT\\_aEAAAAJ&hl=en](https://scholar.google.com/citations?user=NdT_aEAAAAJ&hl=en)

Research gate link: <https://www.researchgate.net/profile/Chinasa-Onyenekwe>

- Eberechukwu Ihemezie is a Lecturer at the Department of Agricultural Economics, University of Nigeria, Nsukka. He holds a master's degree in Environment and Development from the University of Leeds (Distinction) and a Bachelor of Agriculture in Agricultural Economics from the University of Nigeria, Nsukka (First class honours). He is currently doing his PhD programme at the Sustainability Research Institute, School of Earth and Environment, University of Leeds. His PhD in Environmental Economics focuses on understanding the influence of human values on forest conservation. Ebere has diverse research interests around sustainable environment and food security. His work employs an interdisciplinary mixed-methods approach from both the natural and social sciences. His specific research areas include economic valuation, human values, nature conservation, agro-environmental systems, food security, and natural resource management. His research has been published in reputable academic journals and presented at various local and international conferences. Ebere has also won many academic awards, such as the Commonwealth Doctoral and Masters Scholarships, Faculty and Departmental best-graduating student, and other institutional academic awards. UNN website url to detailed CV: <http://www.unn.edu.ng/internals/staff/viewProfile/Mzcmw>

Google Scholar Citation links:  
[https://scholar.google.com/scholar?hl=en&as\\_sdt=0%2C5&q=eberechukwu+ihemezie&aq=Eb](https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=eberechukwu+ihemezie&aq=Eb)

Research gate links: <https://www.researchgate.net/profile/Eberechukwu-Ihemezie>
- Dr Nnadi, is a Lecturer in Department of Agricultural Extension, University of Nigeria and a Research fellow in Resource and Environmental Policy Research Center. She obtained her PhD (in Natural Resource Assessment and Management) from University of Dar es Salaam Tanzania in 2019. She also obtained her Master of Science (in Agricultural Planning and Evaluation) with CGPA of 5.0/5.0 and a Bachelor's degree (in Agricultural Extension and Innovation) with First Class Honors from University of Nigeria Nsukka. She was an Intern (Global African Food Security Project Analyst) in African Development Bank. Her areas of research interest include: Natural resources management; Agricultural projects evaluation; Climate change, gender and environmental development and rural livelihoods. She has engaged in planning, organizing and evaluating training and outreach programs for farmers in many communities around the University of Nigeria Nsukka. She has attended international and local conferences and workshops and above 20 research publications in peer-reviewed Journals. She obtained training in website management under the sponsorship of Agricultural Extension Society of Nigeria. She has worked extensively in managing of the website for Agricultural Extension Society of Nigeria. UNN website: <https://www.unn.edu.ng/internals/staff/viewProfile/NDY0Mw-->  
 Google Scholar: <https://scholar.google.com/citations?user=x7c0EUoAAAAJ&hl=en>  
 Research gate link: <https://www.researchgate.net/profile/Onyinyechi-Nnadi>
- Ike Uzoamaka Chinweoke  
 UNN website url: <https://www.unn.edu.ng/internals/staff/viewProfile/MzMx>  
 Google Scholar Citation link:  
<https://scholar.google.com/citations?user=KKCb2EgAAAAJ&hl=fi>
- Dr Uchechukwu Chukwudi is an African scientist in his early career who is dedicated to advancing solutions for the African continent and beyond. At the University of

Nigeria's Department of Crop Science, he taught research designs and experiments to undergraduates and postgraduates. In addition to lecturing on agricultural statistics, he assists students and researchers with multivariate data analysis and interpretation using R programmes and other statistical tools. His research interests focused on sustainable crop production in a changing climate. It also includes the effects of abiotic stressors on cereal grain quality, the conversion of agricultural wastes into farm input, and the enhancement of seed security. He is a member of the Nigerian Institute of Management, the International Society of Tropical Root Crops - Africa Branch, the Horticultural Society of Nigeria and the Southern Africa Horticultural Science Society. He had presented research papers at both national and international conferences.

UNN website url to detailed CV <https://www.efdinitiative.org/about-efd/people/onyekuru-nwajesus-anthony>

Google Scholar Citation links: <https://scholar.google.com/citations?user=lyY-blAAAAAJ&hl=en>

Research gate links: <https://www.researchgate.net/profile/Emmanuel-Nwosu>

- Mr. Ridwan Mukaila is a Lecturer in the Department of Agricultural Economics, University of Nigeria, Nsukka. He obtained his Master of Science degree in Agricultural Economics from the University of Nigeria with Distinction in 2021 and a Bachelor of Agriculture from the University of Ilorin in 2016. Ridwan has presented several papers at scientific conferences, both locally and internationally. He has also published in various reputable peer-reviewed journals.

UNN website url: <http://staff.unn.edu.ng/staff/NDY4Nw==>

Google Scholar: <https://scholar.google.com/citations?user=YmC9qRSPu5UC&hl=en>

Research gate: [https://www.researchgate.net/profile/Ridwan-Mukaila?ev=hdr\\_xprf](https://www.researchgate.net/profile/Ridwan-Mukaila?ev=hdr_xprf)

- Dr. Chinedu Felix Amuji is a Lecturer in the Department of Crop Science, Faculty of Agriculture, University of Nigeria Nsukka, Nigeria. Dr. Felix obtained his Doctor of Philosophy (PhD) degree from Macquarie University Sydney, Australia. Prior to the doctoral training, Felix had earlier obtained two master's degrees, of which the latest one was on Advanced Technologies for Agroforestry Development from University of Valladolid Spain. The first master's degree was on Crop Production from University of Nigeria Nsukka. In addition, he is a recipient of many awards/scholarships including, the international Research Training Program (iRTP) Scholarship for PhD studies at Macquarie University, Sydney Australia (2017 -2020); Erasmus Mundus Scholarship under Dream project for Master's degree studies in Advanced Technology for Agroforestry Development at University of Valladolid Spain (2014- 2015); Federal Government of Nigeria Scholarship for undergraduates (2009); Best Graduating Student, Department of Crop Science, University of Nigeria Nsukka (Bachelor of Agriculture degree, 2010), First Class Honours (Crop Science, University of Nigeria). Felix has presented his research works in a number of national and international conferences, and have published in various peer-reviewed journals.

UNN website: <http://www.unn.edu.ng/internals/staff/viewProfile/NjU0>

Google

Scholar:

[https://scholar.google.com/citations?view\\_op=list\\_works&hl=en&user=E2wFfxhoAAA AJ](https://scholar.google.com/citations?view_op=list_works&hl=en&user=E2wFfxhoAAA AJ)

Research gate: <https://www.researchgate.net/profile/Chinedu-Felix-Amuji>

- Blessing O Onyekuru Has a National Diploma in Mass Communication, a B A in Mass Communication from the University of Nigeria Nsukka. She also has an M A in Film Production from the York St Johns University UK and an M A in Theatre and Film Studies from the University of Nigeria. She is an E-Tutor with the Centre for E and Distant learning of the University of Nigeria Nsukka
- Amarachi Jacinta is a young and dedicated Agricultural Economist interested in research towards sustainable agricultural, bioeconomic modeling and analysis, farm-level modeling, and land use management.
- Dr. Thecla I. Akukwe is a Senior Lecturer in the Department of Geography, University of Nigeria, Nsukka. She obtained her BSc (First Class Honours) and MSc (Distinction) degrees in Geography from the University of Nigeria, and holds a PhD in Environmental Planning and Management from the University of Nairobi, Kenya. She too short courses in Flood Risk Management and Environmental Planning and Implementation from the IHE Delft Institute for Water Education, The Netherlands in addition to participating in Refreshers' courses organised by the same Institute. Dr. Thecxcla won the University of Nigeria and Chief Enoch Ifediora Oli Prizes for the best graduating student in the Department of Geography for the 2006/2007 session. She also was awarded a Full-time doctoral scholarship under the Transdisciplinary Training for Resource Efficiency and Climate Change Adaptation in Africa II (TRECCAfrica II) programme in 2015 and has won several international travel grants. She has published several peer-reviewed papers and has attended quite a number of local and international workshops and conferences. Her research interests are centered around; Flood Risk Management, Food security/insecurity, flood vulnerability and adaptation, Climate Change and Sustainable livelihoods, Natural resources and sustainable development, Environmental Impact Assessment (EIA).  
UNN website: <http://www.unn.edu.ng/internals/staff/viewProfile/MzMyOA--/1>  
Google Scholar: <https://scholar.google.com/citations?user=SGnUw6kAAAAJ&hl=en>  
Research gate: <https://www.researchgate.net/profile/Thecla-Akukwe>
- Dr Onyia Chukwuemeka, is a Lecturer in Department of Agricultural Economics, University of Nigeria and a Research fellow in Resource and Environmental Policy Research Center. He obtained a PhD in Natural Resource and Environmental Economics from University of Nigeria in 2020. He also obtained his Master of Science in Natural Resource and Environmental Economics from University of Nigeria in 2015 and a Bachelor's degree from University of Nigeria Nsukka in 2010. He is currently an early career research fellow in Environment for Development (EFD). He has published several peer-reviewed papers and has attended quite a number of local and international workshops and conferences. His research interests are centered around; Waste Management, pollution control, flood vulnerability and adaptation, Climate Change and Sustainable livelihoods, Natural resources and sustainable development, and Energy transitions.  
UNN website: <https://www.unn.edu.ng/internals/staff/viewProfile/MzgxNg-->  
Google Scholar: <https://scholar.google.com/citations?user=GayfP5sAAAAJ&hl=en>  
Research gate: <https://www.researchgate.net/profile/Onyia-Chukwuemeka>

## Key Publications:

- Onyekuru, N. A., Ihemezie, E. J., Ezea, C. P., Apeh, C. C. and Onyekuru, B. O. (2023) Impacts of Ebola Disease Outbreak in West Africa: Implications for government and Public Health Preparedness and Lessons from COVID-19. *Scientific African* 19, e01513
- Onyia, C. C., Okpukpara B. C and Onyekuru, N A (2022) Poultry waste management and willingness of farmers to pay for biogas production in South East Nigeria. *Journal of Animal and Plant Science*. 42 (4), 494-499.
- Onyekuru N.A., Marchant R., Ihemezie E.J. (2021) Forest Resource Use and Management in Nigeria: Implications for Implementation of REDD+ for Climate Change Mitigation in West Africa. In: Leal Filho W., Luetz J., Ayal D. (eds) *Handbook of Climate Change Management*. Springer, Cham. [https://doi.org/10.1007/978-3-030-22759-3\\_54-1](https://doi.org/10.1007/978-3-030-22759-3_54-1)
- Ume, C., Onyekuru, N. A and P. I. Opata (2021). Gender and Climate Change Adaptation among Rural Households in Nigeria. *African Handbook of Climate Change Adaptation*. Springer Nature DOI: 10.1007/978-3-030-42091-8\_182-1
- Umeh, C. O., Enete, A. A., Onyekuru, N. A., and Opata, P. I. (2020). Evaluation of agribusiness performance in Nigeria. *Africa Journal of Management* 6 (4).  
<https://doi.org/10.1080/23322373.2020.1830690>
- Onyekuru, N. A., Ezea, C. E., Umeh, C. U. and Chukwuma, N. (2020). Effects of Ebola virus disease outbreak on bush meat enterprise and environmental health risk behaviour among households in South-East Nigeria. *The Journal of Primary prevention*  
<https://doi.org/10.1007/s10935-020-00619-8>
- Onyekuru, B. O., Onyekuru, N. A., Ihemezie, J., Nwokorie, U. M. and Ukonu, M. (2020). Effectiveness of the use of movies in climate change communication: Empirical evidence from York, United Kingdom. *Quarterly Review of Film and Video*. <https://doi.org/10.1080/10509208.2020.1778424> Taylor and Francis.
- Onyekuru, N. A., Eboh, E. C. and Ume, C. O. (2020). Effects of Relative Pricing of Alternative Cooking Energy Sources on Their Substitution: A Comparative Analysis of Rural and Urban Households of Enugu State, Nigeria. *Journal of Agricultural Extension*. Vol. 24, No. 1. <https://www.efdinitiative.org/publications/effects-relativepricing-alternative-cooking-energy-sources-their-substitution>
- Baya, B. B., Nzeadibe, T. C., Nwosu, E. O., & Uzomah, N. L. (2019). Climate change, food insecurity and household adaptation mechanisms in Amaro Ward, Southern Region of Ethiopia. *Journal of Agricultural Extension and Rural Development*, 11(5), 106-113. <https://academicjournals.org/journal/JAERD/article-abstract/E2B34F760920>
- Nnadi, O.I., Lyimo, J., Liwenga, E. & M.C. Madukwe, (2022).. Gender Perspectives of Responses to Climate Variability and Change among Farm Households in Southeast Nigeria. *Environmental Management*. <https://doi.org/10.1007/s00267-022-01748-y>

## 5. Food Self-Sufficiency and Community Engagement Research Group (FS2CERG)

**Main research focus and other areas of research interest of the RG:** The main research focus is to increase local production of staple food to meet the demand of local food consumption.

The other research interests are:

- To convert agricultural wastes into resourceful farm inputs
- To enlighten farmers on emerging sustainable farming practices

**Title of the most recent research project:** Judicious Phosphorus Management: Assessment of rice farmers' knowledge and best practices

**A maximum of seven other current or completed research projects:** Not applicable

**Name of the coordinator:** Dr Uchechukwu Paschal CHUKWUDI

**UNN email address of the RG:** [fs2cerg@unn.edu.ng](mailto:fs2cerg@unn.edu.ng)

**UNN email address of the coordinator:** [uchechukwu.chukwudi@unn.edu.ng](mailto:uchechukwu.chukwudi@unn.edu.ng)

**UNN webpage:** <https://www.unn.edu.ng/food-self-sufficiency-and-community-engagement-research-group-fs2cerg/>

**Phone number of the RG:** +2347039761027

**Phone number of the coordinator:** +2347039761027

**Base faculty of the RG:** Agriculture

**Department of the coordinator:** Crop Science

### List and brief profiles of members (one paragraph per member) with UNN website url to their detailed CVs (hyperlinks are OK)

- Dr Uchechukwu Paschal Chukwudi is a researcher and lecturer with the Department of Crop Science, University of Nigeria. His research focus and interests are on mitigation of negative impact of climate change on staple crops. He works with rural farmers in tackling limitations to increase crop yield. His skills and expertise includes plant physiology, plant breeding, abiotic stress tolerance, crop improvement, plant nutrition, plant biotechnology, agronomy, horticulture, plant environmental stress physiology, plant genetics, statistical software, seed germination, seed science, seed technology, seed physiology, and seed production.  
<https://www.researchgate.net/profile/Uchechukwu-Chukwudi>  
<https://scholar.google.com/citations?hl=en&user=mF5jhHwAAAAJ&view>
- Emmanuel Ikechukwu Eze is a researcher and lecturer in the Department of Crop Science and former Chief Technologist Faculty of Agriculture, University of Nigeria. His current research focus is on mushroom characterization and development of production protocol for medicinal plants in the derived Savanna zone. His research skills and expertise include plant pathology and genetics.  
<https://www.researchgate.net/profile/Emmanuel-Eze-6>  
<https://scholar.google.com/citations?hl=en&user=iTXJ51sAAAAJ>
- Dr Chijioke C. Nwoga's current research interest is to develop a prototype avian semen extender. He is an experienced animal scientist and aquaculturist. His skills and expertise include fish nutrition, fish breeding, fish feed formulation, fish diseases, fish physiology, aquatic science, fisheries biology, fish biology, aquaculture nutrition, marine ecology, fish genetics, fish biotechnology, fish pathology and fish

reproduction. <https://www.researchgate.net/profile/Chijioke-Nwoga>  
<https://scholar.google.com/citations?user=99u8kkMAAAAJ&hl=en&oi=sra>

- Dr Benedict Unagwu currently works at the Department of Soil Science, University of Nigeria. Benedict's research is in the areas of Soil Science, Environmental Science and Agronomy. His current project is 'An assessment of the potentials of organic amendments additions for soil productivity enhancement and erosion control'. His research skills and expertise are soil fertility, soil analysis, soil biology, sustainable agriculture, environmental science, plant nutrition, agronomy, soil chemistry, fertilizers, agroecology, environmental impact assessment, sustainability, soil carbon, climate change, conservation agriculture, soil acidification, and soil and water conservation. <https://www.researchgate.net/profile/Benedict-Unagwu>  
<https://scholar.google.com/citations?user=CR3fQDwAAAAJ&hl=en&oi=ao>
- Edwin Chukwuebuka Awaogu is a lecturer/ passionate researcher in the Department of Soil Science, University of Nigeria, Nsukka (UNN) with an MSc Degree in Soil Chemistry and Mineralogy, UNN and B.Agric (Soil Science, Calabar). His research interest focused on understanding the mineralogy and chemistry of both nutrient and contaminant elements in soils, with the aim of developing solutions to problems associated with agriculture and environment. He is interested in applying statistical modelling on nutrient dynamics. His research skills and expertise includes spatial variability of soil properties, soil microbiology, sustainable agriculture, environment, agronomy, soil chemistry and mineralogy. <https://www.researchgate.net/profile/Chukwuebuka-Awaogu>
- Dr Chiebonam J. Amu currently works at the Department of Agricultural Extension, University of Nigeria. Chiebonam does research in sociology, qualitative social research, communication and media. Her research skills and expertise includes communication, print journalism, mass communication, communication theory, content analysis and new technology. <https://www.researchgate.net/profile/Chiebonam-Amu>  
<https://scholar.google.com/citations?user=Hb4zHEIAAAAJ&hl=en&oi=sra>
- Rosemary Nnedinso Arua is a researcher and lecturer in the Department of Agricultural Economics, University of Nigeria. She does research in agricultural economics and environmental sciences. Her research skills and expertise includes climate change and agriculture, agriculture, sustainability and environment <https://www.researchgate.net/profile/Rosemary-Arua>

### Members' google scholar citation links

<https://scholar.google.com/citations?hl=en&user=mF5jhHwAAAAJ&view>  
<https://scholar.google.com/citations?hl=en&user=iTXJ51sAAAAJ>  
<https://scholar.google.com/citations?user=99u8kkMAAAAJ&hl=en&oi=sra>  
<https://scholar.google.com/citations?user=CR3fQDwAAAAJ&hl=en&oi=ao>  
<https://scholar.google.com/citations?user=Hb4zHEIAAAAJ&hl=en&oi=sra>

**10 key publications of the RG from 2019 till date:** Not applicable

**Patents/exhibitions/shows/productions, etc. from 2019 till date:** Not applicable

**Bank account details of the RG:** Not applicable

## 6. FoodTech Solutions Research Group

**Name of Research Group:** FoodTech Solutions Research Group

**Main research focus and other areas of research interest of the RG:**

- To provide solutions to food processing and safety related challenges through multidisciplinary research.
- To develop technologies for upgrading local food processing technologies.
- To develop novel food products including functional foods/nutraceuticals from local plants.
- To promote good manufacturing practices(GMP) among food processors
- To promote food safety practices amount users.

**Title of most recent research project**

- Processes and systems for combating post harvest deterioration of cassava tubers

**A maximum of seven (7) other current or completed research projects**

- Development of home-grown Artificial Intelligence (AI) aided production line for fermented cassava flour.
- Scientific Investigation of tumor fighting potentials of cassava.
- Assessment of cassava food losses along the cassava value chain.
- Pilot project on food safety in Lagos, Ebonyi and Kano states.

**Name of the Coordinator:** Prof. Gabriel Ifeanyi Okafor

**UNN email address of the coordinator:** [gabriel.okafor@unn.edu.ng](mailto:gabriel.okafor@unn.edu.ng)

**UNN webpage of the RG:** <https://www.unn.edu.ng/foodtech-solutions-research-group/>

**Phone number of the RG:** 08023423908

**Phone number of the coordinator:** 08023423908

**Base Faculty/Institute/Center of the RG:** Faculty of Agriculture

**Department of the Coordinator:** Dept. of Food Science and Technology, University of Nigeria, Nsukka, Enugu State, Nigeria

**Headshot of the coordinator**



**List and brief profiles of members**

- Prof. Gabriel I. Okafor: Gabriel I. Okafor is a professor of Food Processing Engineering and Head, Department of Food Science and Technology, University of Nigeria, Nsukka, Nigeria. He obtained his MSc. and PhD degrees in 1991 and 1994, respectively, from the Odessa National Academy of Food Technologies (ONAFI), Odessa, Ukraine. He has two Russian patents on food processing apparatus and over 100 publications. He won the prestigious APV Seligman Fellowship Award in Food



Engineering, by the Society of Chemical Industry, UK, which was consummated at University of Reading, UK, in 2004.

- Prof. Lawrence U. S. Ezeanyika (Ph.D) is a Professor of Medical Biochemistry/Nutritional Toxicology at the Department of Biochemistry, University of Nigeria, Nsukka. He is a Fellow of the Nigerian Society of Biochemistry and Molecular Biology with over 100 peer reviewed articles in reputable national and international journals and is very well cited. He has successfully supervised 27 doctoral degree theses and about 70 Master of Science degree dissertations. He has a vast knowledge in university administration.
- Rev. Fr. Engr. Dr. Edward Anoliefo holds a PhD in Electronics Engineering. Specializing in instrumentation and automation, he is the Director Centre for Lion Gadgets and Technologies, UNN. He holds a national patent and has developed a wide range of smart devices.
- Engr. Dr. Cornelius O. A. Agbo is a Senior lecturer in the Department of Mechanical Engineering, University of Nigeria, Nsukka, Nigeria. He has a Ph.D in Mechanical Engineering with specialization in Design and Production. His research interests are in the area of machine components design, composite materials technology, automobile manufacturing, etc.
- Christiana N. Ogbonna is an Associate Professor, in the Department of Plant Science and Biotechnology, University of Nigeria, Nsukka from October 2018 till date. She obtained her B.Sc. in Science Education (Biology) from the University of Nigeria, Nsukka in 1988, M.Sc. in Biosystem Science (Molecular Biology) from the Faculty of Life and Environmental Science, University of Tsukuba, Japan in 2001 and a Ph.D in Molecular Biology and Biotechnology from the Department of Biochemistry/Biotechnology, Faculty of Natural Sciences, Ebonyi State University Abakaliki in 2010. Her work experience include Senior Research Assistant at Gene Discovery Research Centre, National Institute of Advanced Industrial Science and Technology (AIST) Tsukuba, Japan (June, 2001 to July 2002), amongst others. Christiana Ogbonna's research interests include biofuels (bioethanol and biodiesel oil) production from agricultural raw materials using both filamentous fungi, yeasts, and microalgae as well as production of enzymes and pigments by fungi and microalgae.
- Dr. Amelia Ngozi Odo (Co-Ordinator) is a Senior Lecturer in the Department of Human Kinetics and Health Education, University of Nigeria, Nsukka, Nigeria. She received her Ph.D. and Masters in Public Health Education, B.Sc in Health Education, and Diplomas in Public Health Nursing, Midwifery, and General Nursing. Dr. Amelia was a postdoctoral researcher at the Department of Anthropology, Michigan State University-MSU (2019-2020). Her primary research interests are in sexual and reproductive health including maternal and child health, adolescent health, nutrition and public health, infectious diseases prevention and control, and gender issues. She has attended some national and international conferences/workshops and published some articles in reputable journals.
- Jane Mbolle Chah is a Professor in the Department of Agricultural Extension, University of Nigeria, Nsukka. She had her professional training at the University of Nigeria, Nsukka where she obtained a Higher Diploma in Animal Health and Husbandry, Postgraduate Diploma in Agricultural Extension, Masters and Doctor of Philosophy Degrees in Agricultural Extension (Rural Sociology). Jane is a recipient of

European Union (EU) funded Intra Africa Academic Exchange Programme. She is a fellow of Mujeres Por Africa Foundation and has completed a certificate course on Building Community Resilience at the Coady Institute Canada. Her research interests include climate change, rural livelihoods, rural development, gender studies, agricultural innovation and poverty; evaluation of agricultural projects with particular interest in livestock extension. She is a member of the African Technology Policy Studies Network (ATPS), Agricultural Extension Society of Nigeria (AESON), International Society of Extension Education, Nagpur, India (INSEE), European Evaluation Society and Chemical, Biological and Environmental Engineering Society (APCBEEES). She has also published over 50 papers in some books and journals.

- Dr. (Mrs.) Ifeoma Felicia Chukwuma is a lecturer in the Medical and Pharmacology Unit, Department of Biochemistry, University of Nigeria, Nsukka. She obtained her BSc, MSc, and Ph.D. from the University of Nigeria, Nsukka. She has research interests in bioinformatics, molecular interactions of medicinal plants in degenerative and metabolic diseases, mechanisms of pharmacological action, functional foods, and anti-cancer therapy. She has published many articles in peer reviewed national and international conferences and attended several research conferences and workshops. As an erudite scholar, Dr. (Mrs.) Chukwuma is a member of various professional associations, including the Organization for Women in Sciences for the Developing World (OWSD), the Nigerian Society of Biochemistry and Molecular Biology, among others.
- Mumukom Maximus ANCHANG is a PhD student in Food Engineering and Processing at the University of Nigeria Nsukka, Department of Food Science and Technology. Anchang is also the co-founder and director of research of the University of Nigeria Alt Protein Project. He holds an MSc. in Food Engineering and Processing from UNN and a B.Tech. in Food Science and Technology from the College of Technology, University of Bamenda. Anchang is a member of the Institute of Food Technology (IFT), the Nigerian Institute of Food Science and Technology (NIST), and an associate member of Sigma Xi, The Scientific Research Honor Society. His primary focus areas are food processing/storage, food product research and development, food process optimization and modelling, and, more recently, food systems and food systems transformation.

#### **Members Google Scholar Citation links**

[Gabriel Ifeanyi Okafor - Google Scholar](#) \_

[Cornelius Ogbodo Anayo Agbo - Google Scholar](#)

<https://scholar.google.com/citations?user=nlyyPCkAAAAJ&hl=en>

<https://scholar.google.com/citations?user=UcLVqXcAAAAJ&hl=en>

[ChristianaN.Ogbonna-GoogleScholar](#)

<https://scholar.google.com/citations?user=QTnvZ5IAAAAJ&hl=en>

#### **Members Research gate links**

- [Gabriel Ifeanyi Okafor \(researchgate.net\)](#)
- [Lawrence U S Ezeanyika \(researchgate.net\)](#)
- [Edward Chukwudi Anoliefo \(researchgate.net\)](#)
- [Agbo O. Cornelius \(researchgate.net\)](#)

- <https://www.researchgate.net/profile/Amelia-Odo-2>
- <https://www.researchgate.net/scientific-contributions/Jane-M-Chah-2181052409>
- <https://www.researchgate.net/profile/lfeoma-Chukwuma-3>
- [Christiana Ogbonna \(researchgate.net\)](https://www.researchgate.net/profile/Christiana-Ogbonna)
- [Anchang Mumukom Maximus \(researchgate.net\)](https://www.researchgate.net/profile/Anchang-Mumukom-Maximus)

### Key publications of the RG from 2019 till date

- Anchang, M.M. and Okafor, G.I. (2022) Some physical, functional and antinutrients of breakfast cereals from blends of guinea corn, pigeon pea and mango flour using mixture-process design. *J Food Sci Technol*. <https://doi.org/10.1007/s13197-022-05407-2>.
- Fujita, M., Wander, K., Paredes Ruvalcaba, N., & Odo, A. N. (2022). Human milk lactoferrin variation in relation to maternal inflammation and iron deficiency in northern Kenya. *American Journal of Human Biology*, <https://doi.org/10.1002/ajhb.23812>
- Edward, C. A., **Chah, Jane M.** and **Oliver Abbah** (2020). Consumers' Perception of Dried Onion and Okra Using Load Adaptive Drying Technology in Nsukka Urban, Nigeria. *Journal of Agricultural Extension* 24(3),125-137.
- Owusu, R. Anugw, I.Q., **Chah J. M.** and Ernest Teye (2021). Consumers perception of rice safety in West Africa. *Food Processing & Nutritional Science*, 2 (1), 1-10.
- Nkwocha, C. C., **Chukwuma**, I. F. and Umeakuana, C. D. (2019). Fatty Acid Profile Of Some Selected Vegetable Consumed In Enugu State, Nigeria. *American Journal of Food and Nutrition*, 7 (4):130-135.
- John, J.I., Uchendu, N.O., **Chukwuma, I.F.**, Ogugofor, M.O., Ezeanyika, L.U.S. (2022). Chemotherapeutic Evaluation of Ethanol Extract of Chromolaena Odorata On Biochemical Aberrations Associated With Experimentally-Induced Benign Prostatic Hyperplasia In Male Rats. *Biointerface Research In Applied Chemistry*, 12 (6): 8426 - 8440 <https://doi.org/10.33263/Briac126.84268440>.
- 5. Apeh, V.O., Asogwa, E., **Chukwuma, I.F.**, Okonkwo, O.F., Nwora, F. And Uke, R. (2022). Chemical Analysis and Insilico Anticancer and Anti-Inflammatory Potentials of Bioactive Compounds from *Moringa oleifera* seed oil. *Advances In Traditional Medicine*. 22 (1): 59-74. <https://doi.org/10.1007/S13596-020-00521-Y>
- **Agbo COA.** Mechanization of wet-sieving processing of fermented cassava pulp for akpu food. *Indian Journal of Engineering*, 2021, 18(49), 164-171.
- **Agbo COA.** Development of fermented cassava wet sieving equipment for rural settings. *Indian Journal of Engineering*, 2021, 18(49), 109-115.
- Ogbonna, C. N. and Okoli, E. C. (2009). Evaluation of the potentials of some cassava varieties in Nigeria for bioethanol production. *Bio-Research*, 8(2): 674-678.

### List of patents/exhibitions/shows/productions, etc from 2019 till date

1. Development and performance evaluation of fermented cassava extractor(patented)
2. Development and Performance Evaluation of Smart Cassava Tuber Bioreactor (patent already filed).

## 7. Hibiscus *sabdariffa* and Ready-to-Use Therapeutic Foods

**Name of Research Group :** *Hibiscus sabdariffa* and Ready-to-Use Therapeutic Foods (RUTFs)

**Main research focus and other areas of research interest of the RG** - Industrial Processing of *Hibiscus sabdariffa* into End –products and into Ingredients for Ready-to-Use Therapeutic Foods (RUTFs)

**Title of most recent research project :** Improving The Safety And Quality Of Malize-Bambara Groundnut And Maize-Cowpea For Infant Food Security During Flu-Like Pandemics

**A maximum of seven (7) other current or completed research projects** -None

**Name of the Coordinator :** Prof Peter Orji Uvere

**UNN email address of the RG:** [hsr2utf@unn.edu.ng](mailto:hsr2utf@unn.edu.ng)

**UNN email address of the coordinator:** [peter.uvere@unn.edu.ng](mailto:peter.uvere@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/hibiscus-sabdariffa-and-ready-to-use-therapeutic-foods/>

**Phone number of the RG:** 08129178785

**Phone number of the coordinator:** 08129178785

**Base Faculty/Institute/Center of the RG:** Agriculture

**Department of the Coordinator:** Food Science and Technology

**Headshot of the coordinator (not mandatory):** Not Available

**List and brief profiles of members (one paragraph per member) with their UNN website url to their detailed CVs (hyperlinks are OK) :** Prof Peter Orji Uvere; Dr I. S. Asogwa, Dr Esther Omah

**Members Google Scholar Citation links:** Not available now

**Members Researchgate links :** Not available now

**10 key publications of the RG from 2019 till date:** None

**List of patents/exhibitions/shows/productions, etc from 2019 till date:** None

## 8. Livestock Feeds and Breeds Improvement Research Group

### Main research focus and other areas of research interest of the RG:

- Development of Nigerian indigenous layer, meat-type and dual purpose strains from heavy ecotype chickens.
- Screening for disease resistant strain of the Nigerian indigenous chicken using single nucleotide polymorphism (snps)
- Improvement of the Nigerian indigenous turkey through cross breeding and improved feeding
- Production and distribution of day old chicks from parent lines and grandparent lines
- Application of precision feeding techniques in swine production
- Improving livestock production using locally available feed resources
- Development of feeding strategies for improved meat and egg production
- Utilization of probiotics to improve to improve growth performance in small ruminants
- Enhancing growth performance in non- ruminants by the use of enzymes

**Title of most recent research project:** Growth, oxidative status, nutrient digestibility and intestinal morphology in two meat-type chickens supplemented with lysolecithin in a hot humid tropical environment

### A maximum of seven (7) other current or completed research projects:

- Evaluation of the energy and protein requirements of growing local turkeys in a hot humid tropical environment
- Sodium butyrate and rosemary leaf meal inclusion in broiler diet: Effect on immunoglobulin and oxidative status activities of breast meat in broilers
- -Sodium butyrate and rosemary leaf meal inclusion in broiler diet: Effect on general performance, carcass traits, organ sizes and nutrient digestibility of broiler chickens
- -Sodium butyrate and rosemary leaf meal inclusion in broiler diet: effects on gut micro-floral, growth performance, ileum, jejunum and duodenal histological traits
- -Sodium butyrate and rosemary leaf meal inclusion in broiler diet: Effect on general performance, carcass traits, organ sizes and nutrient digestibility of broiler chickens
- -Heritability estimates, biometric and allometric growth traits in f1 progenies of the nigerian local turkeys (*Meleagris gallopova*).
- -Nutrient digestibility, growth, carcass, and bio-marker traits of weaner rabbits fed diets containing graded levels of cowpea

**Name of the Coordinator:** Professor Augustine Ogbonna Ani

**UNN email address of the RG:** [livestockfeeds.rg@unn.edu.ng](mailto:livestockfeeds.rg@unn.edu.ng)

**UNN email address of the coordinator:** [augustine.ani@unn.edu.ng](mailto:augustine.ani@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/livestock-feeds-and-breeds-improvement-research-group/>

**Phone number of the RG :** 08060711436

**Phone number of the coordinator:** 08060711436

**Base Faculty/Institute/Center of the RG:** Faculty of Agriculture

**Department of the Coordinator:** Department of Animal Science

## Headshot of the coordinator



### List and brief profiles of members:

- Professor Augustine Ogbonna Ani : Augustine O Ani is a Professor of Animal Nutrition and Biochemistry and the immediate past Dean, Faculty of Agriculture, University of Nigeria, Nsukka. He had his secondary education at Washington Memorial Grammar School (WMGS), Onitsha from 1976 to 1981. Augustine O. Ani attended the University of Maiduguri, and obtained a B.Sc. (Hons.) in Zoology with Second Class (Honours), Upper Division in 1988. He obtained his M.Sc. (Animal Husbandry & Management) in 1995 and Ph.D. (Animal Nutrition & Biochemistry) in 2002 from the University of Nigeria Nsukka. He also obtained a Certificate in Aquaculture in 2006 from the Israeli Centre for International Cooperation (MASHAV). Professor Ani has served the University of Nigeria, Nsukka in various capacities; as Associate Dean, Faculty of Agriculture and Director, University of Nigeria Agricultural Projects Limited; Business Manager of the Faculty journal, Agro-Science Journal of Tropical Agriculture, Food, Environment and Extension, among others. Professor ANI is an erudite Scholar, innovative Researcher and an accomplished Scientist with over one hundred and seventy-five (175) publications in peer-reviewed journals (Local and International), Conference proceedings, monograph and book chapters to his credit. Professor A.O .Ani has attended many conferences and workshops, nationally and internationally. He has supervised and mentored many undergraduate and postgraduate (PGD, Masters and Doctoral Research) students. Professor Ani is the immediate past President and a Fellow of the Nigerian Society for Animal Production (NSAP).
- Dr. Nkiru Patience Uberu is a Senior lecturer in the Department of Animal Science , University of Nigeria, Nsukka, Nigeria. She has a Ph.D in Animal Breeding and Genetics. Her research interests are in the area of Nigerian indigenous local Chickens. She has published in both local and international journals.
- Dr. Charles Onochie Osita is a lecturer in the Department of Animal Science, University of Nigeria, Nsukka, Nigeria. He has a Ph.D in Animal Nutrition and Biochemistry. His research interests are in the area of Ruminant and Non-Ruminant Animal Nutrition. He has published in both local and international journals.
- Dr. (Mrs.) Eunice Amaka Akuru is a lecturer in the Department of Animal Science, University of Nigeria, Nsukka, Nigeria. She has a Ph.D in Animal Nutrition and Biochemistry. Her research interests are in the area of Non-Ruminant Animal Production and Nutrition. She has published in both local and international journals.
- Dr. Mercy Chinasa Ogwuegbu is a lecturer in the Department of Animal Science, University of Nigeria, Nsukka, Nigeria. She has a Ph.D in Animal Nutrition and Biochemistry. Her research interests are in the area of Non-Ruminant Animal Production and Nutrition and she is currently doing her post-doctoral research in South Africa. She has published in both local and international journals

- Dr. Stanley U. Iloh is a Senior lecturer in the Department of Animal Science, University of Nigeria, Nsukka, Nigeria. He has a Ph.D in Animal Physiology and reproduction. His research interests are in the area of Animal Production, Physiology and reproduction.
- Mr. Fredrick Ugochukwu Udeh is a lecturer in the Department of Animal Science , University of Nigeria, Nsukka, Nigeria. He is currently doing his Ph.D programme in Animal Breeding and Genetics. He is conducting a genetic study on growth and reproductive traits using selection index, polymorphism and association of prolactin receptor gene in the Nigerian heavy local chicken ecotype.
- Mr. Ifeanyi. E. Uzochukwu is a lecturer in the Department of Animal Science, University of Nigeria, Nsukka, Nigeria. He is currently doing his Ph.D programme in Animal Physiology and Reproduction. He has published in both local and international journals.
- Mr. Henry Onyechi Edeh is a lecturer in the Department of Animal Science, University of Nigeria, Nsukka, Nigeria. He is currently doing his Ph.D programme in Animal Nutrition and Biochemistry with emphasis on the evaluation of the energy and protein requirements of growing local turkeys in a hot humid tropical environment
- Mr. Matthew O. Onodugo is a lecturer in the Department of Animal Science, University of Nigeria, Nsukka, Nigeria. He is currently doing his Ph.D in Animal Breeding and Genetics. His research interests are in the area of Nigerian indigenous local Chickens
- Mr. Valentine C. Udeh is a lecturer in the Department of Animal Science, University of Nigeria, Nsukka, Nigeria. He has M.Sc. in Animal Breeding and Genetics from the University of Nigeria, Nsukka and he is currently doing his Ph.D in Animal Breeding and Genetics. His research interests are in the area of promoting food security; improving animal welfare; and conserving indigenous livestock species, through animal breeding and genetics.

#### **10 key publications of the RG from 2019 till date:**

•Ogwuegbu, M.C., Ani, A.O., Oyeagu , C. E., Edeh1, H.O., Onodugu1 M. O. and Ilo, S. U.(2022). Immunoglobulin and Oxidative Status Activities of Breast Meat in Broilers Fed Different Levels of Sodium Butyrate and Rosemary (*Rosmarinus officinalis L*) Leaf Meal. *Egypt. J. Vet. Sci.* Vol. 53, No. 2, pp. 273-284.

•Ani, A. O., Akuru, E. A., Edeh, H. O., Omeke J. N.(2021). Energy and protein requirements of local pre-starter turkey poults in a hot humid tropical environment, *International Journal Agriculture and Environmental Research*, 7(2): 344-361.

•Ogwuegbu MC, Ani AO, Oyeagu CE, Osita CO, Oyeagu U, Ugwuoke WI, Lewu FB (2021). Sodium butyrate and rosemary leaf meal inclusion in broiler diet: effects on gut micro-floral, growth performance, ileum, jejunum and duodenal histological traits. *Adv. Anim. Vet. Sci.* 9(7): 1095-1112.

•Edeh Henry Onyeji, Ani Augustine Ogbonna, Osita Charles Onochie, Ogwuegbu Mercy Chisara and Ilo Stanley Uzochukwu (2021). Growth Performance, Nutrient Retention, Serum Biochemical Indices and Carcass Characteristics of Broiler Finisher Birds served Aloe vera Gel Extract Supplement.” *International Journal of Agriculture and Environmental Research*, vol. 07, no. 01, 2021, pp. 35–50., doi:DOI: <https://doi.org/10.51193/IJAER.2021.7103>. ]

- Akuru Eunice Amaka , Ani Augustine Ogbonna , Juliet Adaku Orji , ChikaEthelbert Oyeagu , Charles Onochie Osita , Monday EmrobowansanIdamokoro , Mercy Chisara Ogwuegbu & Francis Bayo Lewu, (2021) Nutrient digestibility, growth, carcass, and bio-marker traits of weaner rabbits fed diets containing graded levels of cowpea (*Vignaunguiculata*) hull meal, Journal of Applied Animal Research, 49:1, 39-45.
- Oyeagu CE, Ezeuko AS, Lewu FB, Akuru EA, Ogwuegbu MC, Osita CO, Ani AO, Mlambo V (2021). The impact of Covid-19 on the livestock industry and the way forward: A review. Adv. Anim. Vet. Sci. 9(6): 941-955.
- Ogwuegbu, M.C, Oyeagu, C.E, Edeh, H.O, Dim, C.E, Ani, A.O, Lewu, F.B, (2021). Effect of Sodium butyrate and rosemary leaf meal on general performance, carcass traits, organ sizes and nutrient digestibility of broiler chickens. Iranian Journal of Applied Animal Science, Iranian Journal of Applied Animal Science (2021) 11(2), 375-389.
- Uberu, N.P., Oleforuh-Okoleh, V.U., Ndofor- Foleng, H.M., Agaviezor, B.O., Ohagenyi. J.I., Udeh, F.U., Ani.A.O., Nwosu, C.C. and Akuru, E.A.(2021). Molecular Evaluation of Prolactin Gene Single Nucleotide Polymorphisms in Nigerian Chicken Ecotypes and their Association with Light Ecotype Chickens' Egg Traits. Int. J. Vet Sci., 11(1): 91-97.
- Uberu, N.P., Emmanuel-Udeozor, J.I., Akuru, E.A., Ani.A.O., Okuli, E. C. and Oyeagu, C. E (2021). Heritability Estimates, Biometric and Allometric Growth Traits in F1 Progenies of the Nigerian Local Turkeys (*Meleagris gallopova*). Int. J. Vet Sci., 11(1): 68-73.
- Charles O. Osita, Augustine O. Ani, Chika E. Oyeagu, Eunice A. Akuru<sup>1</sup>, Leonard C. Ugwuowo, Valentine C. Udeh and Uzochukwu J. Oliobi (2020). Effect of different levels of dietary inclusion of *Saccharomyces cerevisiae* on growth performance and hematological parameters in broiler birds. Bulgarian Journal of Agricultural Science, 26 (No 5) , 1024–1028

### Members Google Scholar Citation links

- Augustine Ogbonna Ani - <https://scholar.google.com/citations?user=gqWHwHMAAAAJ&hl=en>

### Members Research gate links

- Augustine Ogbonna Ani – <https://www.researchgate.net/profile/Augustine> -Ani
- Dr. Nkiru Patience Uberu -(researchgate.net)
- Dr. Charles Onochie Osita - (researchgate.net)
- Dr. (Mrs.) Eunice Amaka Akuru - (researchgate.net)
- Dr. Mercy Chinasa Ogwuegbu – (researchgate.net)



## 9. Nutri-intervention Research Group

**Name of Research Group:** Nutri-intervention Research Group

**Main Research Focus** and other areas of research interest **of the RG:** The Nutri-Intervention Research Group seeks to identify the underlying and basic causes of triple burden of malnutrition among the different age-groups in different communities, identify their risk factors and assess prevalence of NCDs and metabolic syndrome among the adolescents, adults and the aged. The Research Group will also provide intervention through behavioural change communication, capacity building of health workers, local support groups, volunteers, community leaders and women groups. The Group will in addition establish Nutrition Intervention Centre for the management of children with severe acute malnutrition (SAM). This will involve among other activities, the development of nutrient dense therapeutic diets based on local staples.

**Title of most recent research project:** Prevalence of metabolic syndrome screening among professionals in Nigeria.

**Other current or completed research projects:**

Prevalence of metabolic syndrome screening among Nutritionists in Nigeria.

Prevalence of metabolic syndrome screening among Police officers in Nigeria.

**Name of the Coordinator:** Prof. V. N. Ibeanu

**UNN email address of the RG:** [nutri-intervention.researchgroup@unn.edu.ng](mailto:nutri-intervention.researchgroup@unn.edu.ng)

**UNN email address of the Coordinator:** [vivienne.ibeanu@unn.edu.ng](mailto:vivienne.ibeanu@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/nutri-intervention-research-group-nutirg/>

**Phone number of the RG:**

**Phone number of the Coordinator:** 08034831195

**Base Faculty/Institute/Center of the RG:** Faculty of Agriculture

**Department of the Coordinator:** Department of Nutrition and Dietetics

**Headshot of the Coordinator:** N/A

**List of members and brief intro:**

- Prof Vivienne Ibeanu: [vivienne.ibeanu@unn.edu.ng](mailto:vivienne.ibeanu@unn.edu.ng)  
<https://scholar.google.com/citations?hl=en&user=dvgExOUAAAAJ>  
<https://www.researchgate.net/profile/Vivienne-Ibeanu>
- Dr Peace Nwanneka Ani: [peace.ani@unn.edu.ng](mailto:peace.ani@unn.edu.ng)  
[https://scholar.google.com/citations?hl=en&user=TcMK\\_-IAAAAJ](https://scholar.google.com/citations?hl=en&user=TcMK_-IAAAAJ)  
<https://www.researchgate.net/profile/Peace-Ani>  
[https://www.unn.edu.ng/internals/files/staff\\_CV/1341\\_ANI\\_Peace.pdf](https://www.unn.edu.ng/internals/files/staff_CV/1341_ANI_Peace.pdf)
- Dr Aloysius Nwabugo: [aloysius.maduforo@unn.edu.ng](mailto:aloysius.maduforo@unn.edu.ng)
- MrAnoshirikeCyril:  
<https://scholar.google.com/citations?hl=en&user=PIISMK8AAAAJ>  
<https://www.researchgate.net/profile/Cyril-Anoshirike>
- Dr Gift Onodugo: [gift.onodugo@unn.edu.ng](mailto:gift.onodugo@unn.edu.ng)
- Anidi Chioma: [chioma.anidi@unn.edu.ng](mailto:chioma.anidi@unn.edu.ng)
- Umuakuka Ogechukwu: [ogechukwu.umeakuka@unn.edu.ng](mailto:ogechukwu.umeakuka@unn.edu.ng)

## 10. Postharvest Technology Research Group (PTeRG)

### **Main research focus and other areas of research interest of the RG:**

Characterization and utilization of important and major Nigerian agricultural and bioresources raw products, development of value-addition processes, and development and patenting of postharvest technologies for the products; other areas of research interest include: renewable energy application in agro-processing, biofuel research, agricultural products processing and storage, food and bioprocess engineering.

**Title of most recent research project:** Optimization of Anthocyanin Extraction from Roselle (*Hibiscus sabdariffa*) Calyces: RSM, Kinetic Modelling, Mass Transfer and Thermodynamic Studies.

**Name of the Coordinator:** Engr. Assoc. Prof. S. L. Ezeoha,

**UNN email address of the RG:** [pterg@unn.edu.ng](mailto:pterg@unn.edu.ng)

**UNN email address of the coordinator:** [sunday.ezeoha@unn.edu.ng](mailto:sunday.ezeoha@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/postharvest-technology-research-group-pterg/>

**Phone number of the RG:** +234 803 540 4712

**Phone number of the coordinator:** +234 803 540 4712

**Base Faculty/Institute/Center of the RG:** Engineering

**Department of the Coordinator:** Agricultural & Bioresources Engineering

**Headshot of the coordinator:**



## 11. Soil fertility research group

**Main Research Focus** and other areas of research interest **of the RG**: Our research interest is on strengthening household and national food security, sovereignty, and safety in rural and smallholder agricultural production systems of Nigeria, by combining farmer knowledge and socioeconomic capacities with knowledge from West African research, university institutions, and international agricultural research centers with problem-oriented methodologies to:

- record and analyze with stakeholders (farmers, sellers of agricultural produce, municipal/consumer representatives) the inefficiencies of the most common soil nutrient management systems in southeastern Nigeria, based on existing datasets and a series of site-specific verification measurements.
- investigate different site- and soil-specific fertility management strategies to improve soil nutrient and water-use efficiency, reduce greenhouse gas emissions, preserve soil quality, and increase food production and safety despite the use of contaminated wastewater in vegetable production, and
- foster an effective knowledge transfer of existing and new technologies to enhance nutrient use efficiency, increase crop yield, and maximize income earning.

**Title of most recent research project**: Influence of organic liquid fertilizer on vegetable crop production in humid tropical soils.

### Seven (7) other current or completed research projects

**Name of the Coordinator**: Dr (Mrs) Chinyere B. Obika

**UNN email address of the RG**: [soilfertility.rg@unn.edu.ng](mailto:soilfertility.rg@unn.edu.ng)

**UNN email address of the Coordinator**: chinyere.okebalama@unn.edu.ng

**Current webpage of the RG**: <https://www.unn.edu.ng/soil-fertility-research-group/>

**Phone number of the RG**: N/A

**Phone number of the Coordinator**: 080 35387310

**Base Faculty/Institute/Center of the RG**: Faculty of Agriculture

**Department of the Coordinator**: Department of Soil Science

**Headshot of the Coordinator**: N/A

### List of members and brief intro

<https://www.unn.edu.ng/internals/staff/viewProfile/MjA4>

<https://www.unn.edu.ng/internals/staff/viewProfile/MTgz>

<https://www.unn.edu.ng/internals/staff/viewProfile/MjAz>

<https://www.unn.edu.ng/internals/staff/viewProfile/Mzk4OA>

<https://www.unn.edu.ng/internals/staff/viewProfile/Mzk4Mw>

<https://www.unn.edu.ng/internals/staff/viewProfile/Mzk5Mw>

### Google scholar links of members

<https://scholar.google.com/citations?hl=en&user=Fpj6jXIAAAAJ>

<https://scholar.google.com/citations?hl=en&user=6YoCcbUAAAAJ>

<https://scholar.google.com/citations?hl=en&user=O8MlsaUAAAAJ>

<https://scholar.google.com/citations?hl=en&user=PnxeW3MAAAAAJ>

<https://scholar.google.com/citations?hl=en&user=CR3fQDwAAAAJ>  
<https://scholar.google.com/citations?hl=en&user=xqefvVsAAAAJ>

### **Members research gate links**

<https://www.researchgate.net/profile/Chinyere-Okebalama>  
<https://www.researchgate.net/profile/Charles-Igwe>  
<https://www.researchgate.net/profile/Ifeyinwa-Uzoh>  
<https://www.researchgate.net/profile/Ifeoma-Edeh>  
<https://www.researchgate.net/profile/Benedict-Unagwu>  
<https://www.researchgate.net/profile/Nancy-Ebido>

### **10 publications**

**List of patents/exhibitions/shows/productions, etc from 2019 till date: ...**

## **12. Transdisciplinary Research Group (Tdrg)**

**The main focus and other areas of research interest of TDRG are to:**

- Inculcate transdisciplinary principles in research and consultancy actions of the group and other groups.
- Organise awareness, sensitization and training workshops on the importance/relevance of transdisciplinary in research team composition and actions
- Carry out research and consultancy activities using transdisciplinary approach.
- Show case easy uptake of research results and buy-in by end users and policy makers respectively.
- Participate in training and fellowships on transdisciplinary methods

**Title of most recent research project:** Communicating Research Results to End Users Using transdisciplinary approach.

**Name of the Coordinator:** Stella Nwawulu Chiemela

**UNN email address of the RG:** Tdrg.unn.edu.ng

**UNN email address of the coordinator:** [stella.chiemela@unn.edu.ng](mailto:stella.chiemela@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/transdisciplinary-research-group/>

**Phone number of the RG:** +2348034234147

**Phone number of the coordinator:** +2348037618764

**Base Faculty/Institute/Center of the RG:** Faculty of Agriculture, University of Nigeria Nsukka

**Department of the Coordinator:** Department of Agricultural Economics, University of Nigeria Nsukka

### **Profiles of members:**

- **STELLA NWAWULU CHIEMELA** is a lecturer at the Department of Agricultural Economics in the University of Nigeria, Nsukka (UNN). She teaches both undergraduate and master's students. Stella is also a research fellow in Resource and Environmental Policy Research Center, UNN. She received her bachelor's degree in Agricultural Economics and her master's degree in Agroecology and

Sustainable Development from the University of Nigeria Nsukka and Mekelle University, Ethiopia respectively. Stella's research focuses on the intersection of environmental issues and human security, with a particular emphasis on the agricultural sector. Her work seeks to provide solutions to resource and environmental challenges while ensuring sustainability, promoting gender equality, and enhancing overall human security. Stella has made significant contributions to her field, evidenced by her numerous peer-reviewed publications in academic journals. She has presented her findings at various conferences both locally and internationally. In addition, she has supervised several undergraduate students' projects.

**Google**

**Scholar:**

<https://scholar.google.com/citations?user=6hKgggQAAAAJ&hl=en>

**ResearchGate links:** <https://www.researchgate.net/profile/Stella-Chiemela>

- **PROFESSOR ANTHONIA ACHIKE** is a Professor of Agricultural Economics, University of Nigeria, Nsukka (UNN). Also, a global/Adjunct faculty member of the Trade Policy Training Centre in Africa (Trapca), Arusha-Tanzania. She holds a PhD degree in Agricultural Economics, specializing in Agricultural Finance and Project Analysis. Currently, Prof Achike is the Director of the Gender and Development Policy Centre (GEN-CENT) of University of Nigeria Nsukka, the team leader of Nigeria's Community Based Poverty Monitoring System (CBMS-Nigeria), UNN Focal Point for the Alliance for the African Partnership (AAP) and the Regional Universities Forum for Capacity Building in Agriculture (RUFORUM).

**Google scholar:** <https://scholar.google.com/citations?user=mmW376kAAAAJ>

**ResearchGate:** <https://www.researchgate.net/profile/Anthonia-Achike>

- **PROFESSOR NKADI ONYEGEGBU** is at present, the Head of the Department and a Fellow of Science Teachers' Association of Nigeria (STAN). A Past Director, Institute of Education; Professor and Reproductive Health and Sexuality Educator in Science Education Department of University of Nigeria, Nsukka. She holds a BSc. in Microbiology, a PGDE in Science Education, M.Ed and Ph.D. in Science Education. Her academic career is garnished with strings of academic publications. She has edited twelve books, contributed chapters in many books and has published over forty-eight avalanche of academic articles in renowned national and international journals. As a researcher, Professor Nkadi Onyegegbu has severed as a consultant to many International Organizations including the World Health Organization [WHO], United Nations Children's Fund [UNICEF], John D, & Catherine T MacArthur Foundation, Action Aids, Rainbow West Africa, Ford Foundation, United Nations Development Program [UNDP], UKAID, DFID, Federal Ministry of Health, Nigeria and Millennium Development Goals [MDG] and National Reproductive Health, HIV & AIDs Prevention, Care and support through NYSC. Currently, she is a part time National Consultant for UNICEF on WASH, Wins4Girls MHM research Project. A member of Mannion Daniels, AmplifyChange, UK Technical Review Panel {TRP}.

**Google**

**scholar:**

<https://scholar.google.com/scholar?q=Nkadi+Onyegegbu+&hl=en>

**ResearchGate:** <https://www.researchgate.net/profile/Nkadi-Onyegegbu>

- **DR RAYMOND ADIBE** is a Senior Lecturer in the Department of Political Science and a Senior Research Fellow, Gender and Development Policy Centre, in the University of Nigeria. He is a member of the Diversity Committee, Association for Research on Civil Society (AROCESA). His research interests include civil society, gender, race and ethnic relations, environmental politics and political economy.  
**Google scholar:** <https://scholar.google.com/citations?user=l0SaTcQAAAAJ>  
**Researchgate:** <https://www.researchgate.net/profile/Raymond-Adibe>
- **DR IKECHUKWU EROJIKWE** is a Lecturer in the Department of Theatre and Film Studies, University of Nigeria. He is the founder of the Campus Campaign Against Sexual Harassment (C-Cash), a staff and student led-initiative to tackle sexual harassment in tertiary institutions. Dr Erojikwe is an individual recipient of the Association of the Commonwealth Universities (ACU) grant on women empowerment (2020-2021)  
**Google scholar:**  
<https://scholar.google.com/citations?user=91s1fkUAAAAJ&hl=en>  
**ResearchGate:** <https://www.researchgate.net/profile/Ikechukwu-Erojikwe>
- **DR NGOZIKA ANTHONIA OBI-ANI** is a Senior Lecturer in the Department of History and International Studies, University of Nigeria. She is a Fellow, African Peacebuilding Network and Ife Institute of Advanced Studies. Dr Obi-Ani is a member of many professional bodies like the Historical Society of Nigeria.  
**Google scholar:**  
<https://scholar.google.com/citations?user=kyo8tL0AAAAJ&hl=en>  
**ResearchGate:** <https://www.researchgate.net/profile/Ngozika-Obi-Ani>
- **DR CHUKWUEMEKA NWIGWE** is a Senior Lecturer in the Department of Fine and Applied Arts, University of Nigeria, and postdoctoral fellow of African Humanities Program of American Council of Learned Societies. Dr Nwigwe is a member of Art Council of African Studies Association (ACASA) and African Studies Association  
**Google scholar:**  
<https://scholar.google.com/citations?user=Y7RX7VEAAAAJ&hl=en>  
**ResearchGate:** <https://www.researchgate.net/profile/Chukwuemeka-Nwigwe-2>
- **MR CHRISTIAN BASIL OMEH** is a lecturer in the Department of Computer and Robotics Education in the faculty of Vocational and Technical Education, University of Nigeria Nsukka (UNN) in Enugu State. He holds a B.Sc. (Hons.) in computer science education and; M.Tech in Computer Education. He has published several journal articles reputable in Computer Education locally and internationally. He is presently contributing to computer education and scholarship by teaching at the undergraduate level in the Department of Computer and Robotics UNN  
**Google scholar:**  
<https://scholar.google.com/citations?user=XVDGIRgAAAAJ&hl=en>  
**ResearchGate:** <https://www.researchgate.net/profile/Christian-Omeh>
- **DR EMMANUEL ONYEABOR** is a Senior Lecturer in the Department of International and Comparative Law, Faculty of Law, University of Nigeria. He earned a B.Ed in Geography, MSc in Development Planning and another MSc in Environmental Management, He also possess a LLB, LLM (Human Rights) and

PhD (Environmental Law and Policy). He is a researcher at the Gender and Development Policy Centre, University of Nigeria and has published numerous articles in reputable journals.

**Google**

**scholar:**

<https://scholar.google.com/citations?user=xO1o6SAAAAAJ&hl=en>

**ResearchGate:** <https://www.researchgate.net/profile/Emmanuel-Onyeabor>

- **DR UCHECHUKWU PASCHAL CHUKWUDI** is a Lecturer in the Department of Crop Science, University of Nigeria. He was a 2022 recipient of the Young African Phosphorous Fellowship Award by the African Plant Nutrition Institute, Morocco. He is also a member of many professional bodies like the Crop Science Society of Nigeria (CSSN), Horticultural Society of Nigeria (HORTSON), International Society for Tropical Root Crops-Africa Branch (ISTRC-AB) and Southern African Society of Horticultural Sciences (SASHS).

**Google**

**scholar:**

<https://scholar.google.com/citations?user=mF5hHwAAAAJ&hl=en>

**ResearchGate:** <https://www.researchgate.net/profile/Uchechukwu-Chukwudi>

- **PROFESSOR VINCENT CHIGOR** is a Lecturer in the Department of Microbiology, University of Nigeria. He is a Professor of Environmental and Public Health Microbiology and Co-Director, C-CASH. Professor Chigor is experienced in engaging with communities to improve health outcomes and helping people understand the importance of water for every aspect of life.

**Google**

**scholar:**

<https://scholar.google.com/citations?hl=en&user=aHAXGHYAAAAJ>

**ResearchGate:** <https://www.researchgate.net/profile/Vincent-Chigor>

- **DR SCHOLARSTICA UKWOMA** is a Reader. She holds PhD in Library and Information Science from the University of Nigeria. She is a researcher with many academic publications both in national and international journals. Her research interests include gender studies, bibliometrics and scholarly communications

**Google**

**scholar:**

<https://scholar.google.co.za/citations?user=Ckk40y8AAAAJ&hl=en>

**ResearchGate:** <https://www.researchgate.net/profile/Scholastica-C-Ukwoma>

- **ENGR DR. JOEL N. NWAKAIRE** *M.Eng, Ph.D, MNIAE, MRESN, MATPS*
- Associate Professor, Department of Agricultural and Bioresources Engineering, University of Nigeria, Nsukka. Power Machinery and Mechatronic Research Unit +2347035020691
- Postdoctoral Research Officer
- African Technology Policy Study Network (ATPS)
- Website: <http://www.atpsnet.org>
- Cell Number: +254713748791

**ResearchGate:**

<https://scholar.google.com/citations?hl=en&user=qUWzvgAAAAJ>

- Website: [joelnwakaire.w3spaces.com/index.html](http://joelnwakaire.w3spaces.com/index.html)

**Patents:** Nwakaire J.N, Ohagwu C. J., Achike I. A., Egbuhuzor O. M., Okafor O. E. (2021). Development of Cassava Washing and Peeling Machine for Optimal Process Operation. Federal Ministry of Industry, Trade, and Investment, Nigeria. Patent No. NG/PT/NC/2021/5358.

## FACULTY OF ARTS

### 13. African Humanities Research and Development Circle (AHRDC)

**Main Research Focus:** African Humanities; African Studies; Development and Policy Studies

**Other areas of research interest:**

Egodi Uchendu: Women's history, Masculinities, Conflict situations, Islam in Eastern Nigeria and Sustainable waste management.

Emmanuel Johnson Ibut: African Religion and Philosophy, Philosophy of Literature, Cultural Agency and Development.

Chukwuemeka C. Agbo: Labour History, Diaspora Studies, Subaltern Studies.

Chisom Uchendu: Parody advertising as a tool for social commentary, with a focus on Nigeria's current societal issues.

Felicia Priest: Missiology, Christian conversion to Islam, Witchcraft accusations, and Gender-based violence.

Amuche Nnabueze: Art and Humanities; Environmental anthropology.

Peter Memga Kertyo: Democratic elections, Electoral violence, Security studies and Nigeria's external relations.

Samuel Okafor: Political and medical Sociology, Policy studies, Colonial and post-colonial studies, indigenous people, Demography, Gender Studies and Environmental Studies.

Ogechukwu Ikem: Social and Economic History; Gender Studies.

**Most recent research project:** Women and resistance in colonial societies.

**A maximum of 7 other current/completed research projects:**

- Navigating Archives in Nigeria: Experiences, Opportunities, and Advancements
- Citizenships in Africa
- Ableism in Africa: Multidimensional Approaches (2021/2022)
- Nigeria's Resource Wars (2019/2020)
- Witchcraft: Meanings, Factors and Practices (2019)
- Patterns of Islamic Dawah in Eastern Nigeria (2016-17)

**Name of the coordinator:** Professor Dr. Egodi Uchendu, AvHF, FHSN, FRDA, MNAL

**UNN email address of the RG:** [ahrdc@ahrdc.academy](mailto:ahrdc@ahrdc.academy) & ahrdc.unn@gmail.com

**UNN email address of the coordinator:** [egodi.uchendu@unn.edu.ng](mailto:egodi.uchendu@unn.edu.ng)

**UNN webpage of the RG:** <https://www.unn.edu.ng/african-humanities-research-and-development-circle-ahrdc/>

**Other website of the RG:** [www.ahrdc.academy](http://www.ahrdc.academy)

**Phone number of the RG:** 0817 099 5050

**Phone number of the coordinator:** 08039617898

**Base Faculty/Institute /Centre of the RG:** Faculty of Arts

**Department of the coordinator:** History and International Studies



### Headshot of the coordinator:



### List and brief profiles of members:

Egodi Uchendu is a Professor of History and International Studies, University of Nigeria, Nsukka, a Fellow of the Historical Society of Nigeria (FHSN) and of the Royal Doyen Academy (FRDA). She holds several awards and research grants and has served on different academic Boards. Her latest publications include: *Islam in the Niger Delta, 1890-2017: A Synthesis of the Accounts of Indigenes and Migrants* (Klaus Schwarz, 2018) that won the African Studies and Research Forum (ASRF) 2020 runner-up book prize; *Nigeria's Resource Wars* (Vernon Press, 2020); *Negotiating Patriarchy and Gender in Africa: Discourses, Practices, and Policies* (Lexington Books, 2021 & 2023); *Nigeria's 2019 Democratic Experience* (De Gruyter, 2022), and *Witchcraft in Africa: Meanings, Factors, and Practices* (Cambridge Scholars, 2023). Professor Uchendu coordinates the #Don't-Litter-Initiative, a sustainable waste management project for University of Nigeria Nsukka campus with funding from the German Federal Foreign Office. Additional information about her career is available on [www.egodiuchendu.com](http://www.egodiuchendu.com) and [orcid.org/0000-0002-8305-4682](https://orcid.org/0000-0002-8305-4682).

Emmanuel Johnson Ibuot is a midcareer academic with parallel teaching appointments at Humanities Unit, School of General Studies, and Department of Philosophy, both at University of Nigeria, Nsukka (UNN). In 2009, he was a Junior AvH Fellow/Researcher at Institute of Asian and African Studies at Humboldt University, Berlin. His research interests are in African Studies (African Religion and Philosophy), Philosophy of Literature, and in Cultural Agency and Development.

Chukwuemeka Agbo holds a PhD from The University of Texas at Austin. His research explores the politics of labor mobilization in Eastern Nigeria in the nineteenth and twentieth centuries, and the global and local dynamics that shaped labor demand and supply during this period. Dr. Agbo serves as Vice President for Research and Publications of the African Humanities Research and Development Circle (AHRDC), and the Managing Editor of AHRDC's flagship journal, *Journal of African Humanities and Research Development* (JAHRD). Please, visit [www.ahrdc.academy](http://www.ahrdc.academy) to learn more about Dr. Agbo's scholarship.

Chisom Uchendu holds a Bachelor of Arts degree in Visual Communication Design from the University of Nigeria (2015), and an MFA degree in Communication Art and Design also from UNN. She is a faculty member in the Department of Fine and Applied Arts, University of Nigeria, where she has taught courses in Art History and Visual Communication Design since 2018. With particular interest in Brand Identity Design,

Uchendu has worked as a freelance graphic designer since 2016, producing client work as well as personal projects. Uchendu's research engages the use of parody advertising as a tool for social commentary. Aside from her brand identity and academic research interests, Uchendu's career also explores professional textile design, especially in the area of digital pattern design. To learn more about Uchendu's scholarship and view some of her design portfolio, please visit [chisomuchendu.com](http://chisomuchendu.com).

Chinyere Felicia Priest is a Lecturer at West Africa Theological Seminary, Lagos (WATS). She earned her PhD in Theological Studies (2018) from Africa International University, Nairobi in 2018. Chinyere taught in the undergraduate and postgraduate programmes at WATS and worked as a Teaching Fellow for four years at Africa International University. She recently published *The Conversion of Igbo Christians to Islam: A Study of Religious Change in a Christian Heartland* (Langham: 2020). Dr. Priest is a member of the Africa Society of Evangelical Theology and Review of Religious Research.

Amuche Nnabueze teaches sculpture, cultural and creative arts at the University of Nigeria, Nsukka, having obtained a PhD in Art Education in 2017. She is passionate about deploying various artistic processes to speak to the sustainability of the environment. She also promotes practices to mitigate the adverse impacts of human activities on the environment. She founded the Sculpted Basket Project in 2008 where she educates pupils, students, administrators, mothers, traders and others about sustainable environmental concepts through socially engaged activities. Amuche is a multi-skilled, experienced, reliable and adaptable creative with several years of socially focused art practice. She has over fifteen years of experience in higher education administrative and academic environments. In the past four years, she has become increasingly involved in mobilizing parents and youths for Creative Climate work. She is a pioneer and 2021 Fellow of the prestigious Climate Parent Fellowship of the Parents for Future and Our Kids Climate.

Samuel Okechi Okafor is a PhD student in Environment and Demography in the Department of Sociology/Anthropology, University of Nigeria, Nsukka. He uses multi methodological research skills in the areas of social sciences and humanities.  
e-mail: [samuelokey200@gmail.com](mailto:samuelokey200@gmail.com)  
ORCID: 0000-0001-8584-5616

Ogechi Akure Ikem is a lecturer in the Department of History and International Studies, University of Nigeria, Nsukka. She holds B.A. (Nig.), M.A. (Nig.) and currently doing her PhD. She specializes in socio-economic history with focus on women.

**Members google scholar citation links:**

Professor Dr. Egodi Uchendu: [www.scholar.google.com/egodi+uchendu&oq=egodi](http://www.scholar.google.com/egodi+uchendu&oq=egodi)

**Members research gate links:**

Professor Dr. Egodi Uchendu: [www.researchgate.net/profile/Egodi\\_Uchendu](http://www.researchgate.net/profile/Egodi_Uchendu)

### 10 key publications of the RG from 2019 till date:

- Egodi Uchendu, Elizabeth Onogwu & Chukwemeka Agbo (eds.), *Witchcraft in Africa: Meanings, Factors & Practices* (Cambridge Scholars, 2023)
- Egodi Uchendu (ed.), *Nigeria's Resource Wars* (Wilmington, Delaware: Vernon Press, 2020). <https://vernonpress.com/book/892>
- Egodi Uchendu, "Trends in Islamic Propagation (Da'wah) in Parts of Eastern Nigeria," *Africa. N.S. IV/2* (2022): 5-28.
- Egodi Uchendu, Amuche Nwabueze & Elizabeth Onogwu. "Locked Down during the Lockdown." *Alliance for African Partnership Perspectives 1* (2021): 101-106. [muse.jhu.edu/article/837369](https://muse.jhu.edu/article/837369). (Open Access).
- Egodi Uchendu & Samuel Okafor, "Summary of Professor B.I.C. Ijomah's Works," *Public Policy Inquiry (PPI) 1*, no. 1 (2021): 69-80.
- Egodi Uchendu & Chinyere Felicia Priest, "The Stages of Igbo Conversion to Islam: An Empirical Study," in *Review of Religious Research 62* (2020): 121–132, <https://doi.org/10.1007/s13644-020-00402-5>.
- Egodi Uchendu & Chukwemeka Agbo, "'The Coast ought to pay for the Development of the Interior:' Colonial Foundations of Dysfunctional Federalism, Unproductivity, and Federal Allocation in Nigeria," for *AM Digital, U.K.* <https://www.africaandthenewimperialism.amdigital.co.uk/>, 2022 [Commissioned].
- Chukwemeka Agbo, "Between Slaves and Slave Owners: The Abolition and Resource Wars in Colonial Eastern Nigeria," in Egodi Uchendu, *Nigeria's Resource Wars* (Wilmington, Delaware: Vernon Press, 2020), 33-54.
- Chukwuebuka Omeje and Chisom Uchendu, "The Domains of Resource Wars in Nigeria," in Egodi Uchendu (ed.), *Nigeria's Resource Wars* (Wilmington, Delaware: Vernon Press, 2020), 55-72.
- Emmanuel Johnson Ibuot, "Disharmony in Nigeria: Towards a Deconstruction of its Ideological Foundations," in Egodi Uchendu (ed.), *Nigeria's Resource Wars* (Wilmington, Delaware: Vernon Press, 2020), 135-157.

## 14. Scholars of English Language Research Group (SELRG)

**Main Research Focus:** Exploration of the issues relating to English language in the contemporary societies and the application of language in solving human-related challenges.

**Title of Most Recent Research Project:** Applications of Forensic Stylistics in Unfolding Sexual and Gender-Based Violence in Nigerian Tertiary Institutions (on-going).

**Name of Coordinator:** Prof. C. L. Ngonebu

**UNN email Address of the Research Group:** [scholarsofenglishlanguage.rg@unn.edu.ng](mailto:scholarsofenglishlanguage.rg@unn.edu.ng)

**UNN webpage:** <https://www.unn.edu.ng/scholars-of-english-language-research-group-selrg/>

**Phone Number of the Research Group:** 08055691649

**UNN email of the Coordinator:** [chinyere.ngonebu@unn.edu.ng](mailto:chinyere.ngonebu@unn.edu.ng)

**Phone Number of the Coordinator:** 08036186242

**Base Faculty:** Arts

**Department of the Coordinator:** English and Literary Studies.

### Brief Profiles of The Researchers:

**Prof. Chinyere Loretta Ngonebu** was born on 5 October 1969. She studied English as a second language at the University of Nigeria, Nsukka. Her highest qualification is PhD and she specializes in Applied Linguistics.

**Dr Goodluck Chinenye Kadiri**, was born on 4 April 1968. She is a Senior Lecturer in the Department of English and Literary Studies, University of Nigeria, Nsukka. Her highest qualification is PhD and her area of specialization is Applied Linguistics, [goodluck.kadiri@unn.edu.ng](mailto:goodluck.kadiri@unn.edu.ng)

**Dr Basil O. Nwokolo**, was born on 12 December 1960, a Senior Lecturer with the Department of English and Literary Studies, University of Nigeria, Nsukka, his highest qualification is PhD with a specialization in Applied Linguistics, [basil.nwokolo@unn.edu.ng](mailto:basil.nwokolo@unn.edu.ng)

**Dr Akogwu James Abah** was born on 22 May 1982, He is a lecturer with the Department of English and Literary Studies, University of Nigeria, Nsukka. He has PhD as his highest qualification. His area of specialization is Applied Linguistics. [akogwu.abah@unn.edu.ng](mailto:akogwu.abah@unn.edu.ng)

**Onyinyechi Blessing Udoumoh** was born on 13 June 1989, she holds a Master of Arts in English and a PhD student in the same department. She is a lecturer in the Department of English and Literary Studies, University of Nigeria, Nsukka. Her area of specialization is Applied [Linguistics.onyinyechi.udoumoh@unn.edu.ng](mailto:Linguistics.onyinyechi.udoumoh@unn.edu.ng).

## FACULTY OF BASIC CLINICAL SCIENCES

### 15. Basic and Translational Cancer Research Group

**Research Focus:** Basic and Translational Cancer Research Group, University of Nigeria Nsukka, encompasses a board scope of disciplines. Cancer research as a discipline has a remarkable integration of all forms of biological science from animal models to cell biology, genomics, informatics and therapeutics. Precisely, our focus includes cancer biology; biomarkers and diagnostics; chemical carcinogenesis; epigenetics regulation or epigenetics of cancer; diet/epigenetic mediated tumorigenesis; nutrient roles in cancer prevention and therapy; experimental models of human cancer; targeted therapies; cancer associated thrombosis; immune- oncology; computational analysis of cancer genomes and novel approaches to cancer treatments based on patient genetics. Our objective is to address the burning questions in oncology (disparities) and achieve from bench to bedside to better improve the outcome of cancer patients.

**Title of most recent research project:** Genomic Profiling of Nigerian Breast Tumour Microenvironment by Estrogen Receptor Status

**A maximum of seven (7) other current or completed research projects**

- “Cancer Xenograft in Mice Models Derived from a Nigerian Woman”
- “Breast Tumour Xenograft from Nigerian Women: A Tool for investigation of Breast Cancer Metastasis”

**Name of the Coordinator:** Dr Uzoamaka Okoli

**UNN email address of the RG:** [btcancerresearch@unn.edu.ng](mailto:btcancerresearch@unn.edu.ng)

**UNN email address of the coordinator:** [Uzoamaka.okoli@unn.edu.ng](mailto:Uzoamaka.okoli@unn.edu.ng)

**UNN webpage:**

**Current webpage of the RG:**

<https://collegeofmedicine.unn.edu.ng/education/research/research-groups/btcrg>

**Phone number of the RG:** +2348101510072

**Phone number of the coordinator:** +2348101510072

**Base Faculty/Institute/Center of the RG:** Faculty of Basic Clinical Sciences (Formerly Faculty of Medical Sciences)

**Department of the Coordinator:** Department of Pharmacology and Therapeutics, UNEC

**Headshot of the coordinator:**



## Members

### Faculty of Medical Sciences

#### Department of Surgery:

- Prof Ken Agu <https://scholar.google.com/citations?user=pTsU2IMAAAAJ&hl=en>  
<https://www.researchgate.net/profile/Kenneth-Agu>

#### Department of Haematology: Prof Theresa Nwagha

- <https://scholar.google.com/citations?user=HJ1IPCAAAAAJ&hl=en>  
<https://www.researchgate.net/profile/Theresa-Nwagha>

#### Department of Pharmacology and Therapeutics

- Dr Uzoamaka Okoli  
[https://scholar.google.com/citations?user=5Jbx\\_jkAAAAJ&hl=en](https://scholar.google.com/citations?user=5Jbx_jkAAAAJ&hl=en)  
<https://www.researchgate.net/profile/Uzoamaka-Okoli-2>
- Dr Michael Okafor: <https://www.researchgate.net/profile/Michael-Okafor>
- Dr Obinna Nwoke

#### Department of Physiology: Dr Ifeoma Orizu

- <https://scholar.google.com/citations?user=ck8kkM4AAAAJ&hl=en>  
<https://www.researchgate.net/profile/Ifeoma-Orizu-2>

#### Department of Medical Biochemistry and Molecular Biology: Mr Zedech Uche

- <https://scholar.google.com/citations?user=mYIOne8AAAAJ&hl=en>  
Mr Nonso Ejiofor: <https://www.researchgate.net/profile/Nonso-Ejiofor>  
[https://scholar.google.com/citations?user=s4cM\\_oIAAAAAJ&hl=en](https://scholar.google.com/citations?user=s4cM_oIAAAAAJ&hl=en)

## 10 key publications of the RG from 2019 till date

- Uzoamaka A. Okoli. Comparison of RUNX1, RUNX2, RUNX3 and CBF $\beta$  gene expression in breast tumors Indicate ethnic differences and similarities by receptor status [abstract]. In: Proceedings of the AACR Virtual Conference: 14th AACR Conference on the Science of Cancer Health Disparities in Racial/Ethnic Minorities and the Medically Underserved; 2021 Oct 6-8. Philadelphia (PA): AACR; Cancer Epidemiol Biomarkers Prev 2022;31(1 Suppl):Abstract nr PO-150. <https://doi.org/10.1158/1538-7755.DISP21-PO-150>
- Okoli UA et al. Characterization and establishment of triple negative breast cancer patient derived xenograft derived from a Nigerian woman [abstract]. In: Proceedings of the Annual Meeting of the American Association for Cancer Research 2020; AACR; Cancer Res 2020;80(16 Suppl):Abstract nr 1679. <https://doi.org/10.1158/1538-7445.AM2020-1679>
- Okoli UA et al. Methodology for processing mastectomy and cryopreservation of breast cancer tissue in a resource- poor setting: A pilot study. Cryobiology. 2020 Dec;97:179-184. doi: 10.1016/j.cryobiol.2020.05.006. Epub 2020 Jun 18. PMID: 32562613. <https://pubmed.ncbi.nlm.nih.gov/32562613/>
- Chulkwunonso Ikwueze et al. A review of current and future prospects in cancer prevention and chemotherapy. West African Journal of Pharmacology and Drug Research -- Vol. 33 No. 1 (2019): <https://www.ajol.info/index.php/wajpdr/cart/view/204788/193109>
- Okafor MT, Okoli UA et al 2023. Cannabis as medicine: The pros and cons DOI: 10.4103/ijmh.IJMH\_69\_22 <https://www.ijmhdev.com/article.asp?issn=2635-3695;year=2023;volume=28;issue=2;spage=81;epage=86;aulast=Okafor;type=0>

## 16. Health Policy Research Group (HPRG)

**Main Research Focus:** Health Policy and Systems Research, Health Economics and Implementation Research. We have a strong track record in evaluating policies, implementing strategies and designing interventions for improving access to quality health services. Our mission is to improve people's health and well-being through research, training, and services.

**Title of Most Recent Research Project:** Cross-Programmatic Efficiency Analysis (CPEA) of health programmes.

**Other Projects:**

1. African Health Observatory Platform (AHOP, Nigeria)
2. African Journal of Health Economics
3. Urban Health
4. Health Sector Corruption
5. WHO/TDR-Capacity Building FOR Producers and Users of Health Policy and Systems
6. Health Policy and Systems Research
7. Sexual/Reproductive/Maternal/Child and Adolescent Health

**Name of the Coordinator:** Prof Obinna Onwujekwe, FAMedS, FAS

**UNN email address of the RG:** [hprg@unn.edu.ng](mailto:hprg@unn.edu.ng)

**UNN email address of the Coordinator:** [obinna.onwujekwe@unn.edu.ng](mailto:obinna.onwujekwe@unn.edu.ng)

**Current webpages of the RG:** <http://www.unn.edu.ng/the-health-policy-research-group-hprg/>

**Other website of the RG:** <https://hprgunn.com/>

**Phone number of the RG:** +234 809 700 7771

**Phone Number of the Coordinator:** +234 803 700 7771

**Base Faculty/Institute/Center:** Faculty of Basic Clinical Sciences

**Department of the Coordinator:** Pharmacology and Therapeutics

**Headshot of the coordinator:**



### BRIEF PROFILES OF MEMBERS

- **Professor Obinna Emanuel Onwujekwe**, Fellow, Nigerian Academy of Science (FAS) and Fellow, the Academy of Medicine Specialties of Nigeria (FAMedS). Professor Obinna Onwujekwe is medically qualified but also has MSc and PhD in Health Economics. He is a Professor of Pharmacoeconomics/ Pharmacoepidemiology in Department of Pharmacology and Therapeutics, and Professor of Health Economics, Systems & Policy in the Department of Health Administration and Management, both at the University of Nigeria Enugu Campus. He is an adjunct Professor of Health Policy and Systems with the Nigerian Institute of Medical Research (NIMR), Yaba, Lagos. He is also the Director of Research in the University of Nigeria, the Coordinator of the Health Policy Research Group and the President of

the Nigerian Health Economics Association. He was the technical facilitator of the 2014 Presidential Summit on Universal Health Coverage in Nigeria. He was a member of the WHO/AFRO Task Force on Immunization (TFI), WHO, Brazzaville, September 2009 to 2013. He is a member of board of the African Health Economics and Policy Association (AfHEA) and the Health Reform Foundation of Nigeria (HERFON). He is also the Director of the Nigerian National Centre on Health Policy and Systems, University of Nigeria, which is part of the African Health Observatory Platform (AHOP) on Health Systems. He is a member of the African Advisory Committee on Health Research and Development (AACHRD) of WHO AFRO. He was a member of the Ministerial Expert Advisory Committee on COVID-19 (MEACOC), the National Health Research Committee and the COVID-19 Socio-economy working group of African Scientific Research and Innovation Council of the African Union. He is the editor of the African Journal of Health Economics. He has published more than 400 journal articles. He is a Fellow of the Nigerian Academy of Science and the Academy of Medicine Specialties of Nigeria.

**Online profiles:**

[https://www.researchgate.net/profile/Obinna\\_Onwujekwe](https://www.researchgate.net/profile/Obinna_Onwujekwe)

<http://scholar.google.com/citations?user=IVcCp5gAAAAJ&hl=en>

<https://unn-ng.academia.edu/ObinnaOnwujekwe>

<https://pubmed.ncbi.nlm.nih.gov/?term=Onwujekwe+O&sort=pubdate>

- **Professor Benjamin Uzochukwu, FAMEDS, FAS.** He qualified as a medical doctor in 1983 and obtained his Diploma in Public Administration in 1996 and Master of Public Health degree in 2000 as well as Certificate in Health Policy Analysis. He is a Fellow of the West African College of Physicians and Consultant Community Medicine Physician at the University of Nigeria, Teaching Hospital Enugu. He is also a Professor of Public Health, Health Policy and Systems in the Department of Community Medicine and Health Administration & Management, College of Medicine, University of Nigeria, Enugu Campus where he teaches Health Management and Health Policy and systems. He is also the assistant coordinator of the Health Policy Research Group. He has been working in public health for over 20 years. He is a foundation member of the Association of Schools of Public in Africa (ASPHA) and in the board of Health Systems Global. He is the 86th inaugural lecturer of the University of Nigeria Nsukka and the pioneer Director of the Institute of Public health of same university.

ResearchGate link: <https://www.researchgate.net/profile/Benjamin-Uzochukwu>

Google scholar citation link:

[https://scholar.google.com/citations?user=S6\\_Se88AAAAJ&hl=en](https://scholar.google.com/citations?user=S6_Se88AAAAJ&hl=en)

- **Professor Chinyere Mbachu**

Prof Chinyere Mbachu graduated from medical school in August, 2004 and joined University of Nigeria Teaching Hospital in 2008 to undertake a fellowship training programme in community health. She became a Fellow of the West African College of Physicians (FWACP) in Community Health in 2013 and practiced as a consultant Community Health physician for 3 years at the Federal Teaching Hospital Abakaliki. She taught health management and primary health care modules to undergraduate



medical students in Ebonyi state University as a part-time lecturer for two and half years after which she was appointed a Senior lecturer in the Department of Community Medicine, College of Medicine University of Nigeria Enugu campus. Her early career contributions have focused on applying knowledge and skills in building the field of health policy and systems research in Nigeria and building the capacity of policy makers and practitioners in the use of evidence for policymaking and practice. She has also spent considerable amount of time training undergraduate and postgraduate medical doctors in community health. She participated in developing the curriculum for “Introduction to health policy and systems research” and “Introduction to Complex Health Systems” available on the CHEPSAA website [www.hpsa-africa.com](http://www.hpsa-africa.com)

Her main research interests on health systems governance and accountability; analysis of health policies, plans and strategies; political economy analysis of health reforms; health services research including evaluation of malaria control interventions; and getting research evidence into policy and practice. She is currently a member of the following national and international professional associations: Association of Public Health Physicians in Nigeria; West African Emerging HPS Research and Practice Network (WANEL); RESYST Consortium; Health Systems Global; and Collaboration for Health Policy and Systems Analysis in Africa.

Google scholar citation link:

<https://scholar.google.com/citations?user=YrVQxUAAAAAJ&hl=en>

ResearchGate link: <https://www.researchgate.net/profile/Chinyere-Mbachu-2>

- **Professor Chima Onoka**

Chima Ariel Onoka graduated with MBBS degree from University of Port-Harcourt Nigeria in 2000 and obtained a Master of Science degree in Health Policy Planning and Financing from the University of London (London School of Hygiene and Tropical Medicine, and London School of Economics and Political Science) and a PhD in health systems economics from the University of London. He also has MPH degree from the University of Nigeria, Enugu, and is a fellow of the West African College of Physicians (Community Medicine) where he also serves as examiner. He is a Senior Lecturer in the health systems, policy and management unit of the Department of Community Medicine, College of Medicine, University of Nigeria and a Consultant Public Health Physician with the University of Nigeria Teaching Hospital. As a community physician, he also specially focuses on the policy and management systems for provision and delivery of various disease control programmes and health interventions. As operational head for research for several years with the Health Policy Research Group, College of Medicine University of Nigeria Enugu campus, he led the field component of several small to large scale studies focused on healthcare financing and equity, funded by local and international organisations including the World Health Organisation and the UK Department for International Development. He has served as consultant to the National Primary Health Care Development Agency (health financing unit), Federal Ministry of Health (department of planning, research and statistics), PATHS2 (Abt Associates) and Health Reform Foundation of Nigeria

(HERFON). He also served for 2 years as country researcher for IHP+ Results. He managed the field work for the evaluation of the Axios supply chain management systems in 2010 and was the lead consultant for the Joint Annual Review of the health sector for Lagos State Nigeria in 2012. He has also served as principal investigator for studies funded by the Wellcome Trust UK (Economics of IPTp for malaria Coverage), and the WHO Alliance for Health Policy and Systems Research (Analysing Efforts towards Universal Coverage Reforms in Nigeria). He has recently researched the policy development processes of the National Health Insurance Scheme in Nigeria and the role of the private sector in national health financing systems, and was one of the theme speakers at the 57th National Council on Health, which is the highest policy advisory body for the health sector in Nigeria.

ResearchGate link: <https://www.researchgate.net/profile/Chima-Onoka>

- **Prof Edozie Ajaero**

Chukwuedozie Kelechukwu Ajaero is a Senior Research Fellow at Resource and Environmental Policy Research Centre (REPRC) EfD-Nigeria. He is Professor of Population Geography and the Deputy Provost of the College of Postgraduate Studies, University of Nigeria Nsukka (UNN). He was a Postdoctoral Fellow and Visiting Scholar with the Demography and Population Studies Programme of the University of the Witwatersrand, South Africa.

Ajaero's areas of research include migration and livelihood studies, displacements and socioecological conflicts, human trafficking, public health, health policy and quality of life, and population-environment linkages.

Chair 5 master's and more than twenty five undergraduate theses. Participated in committees of over 30+ theses, including 18 Ph.Ds in Population Geography, Environmental Management, and other areas of Geography.

Google scholar citation link:  
<https://scholar.google.com/citations?user=zc74xbMAAAAJ&hl=en>

ResearchGate link: <https://www.researchgate.net/profile/Chukwuedozie-Ajaero>

- **Associate Professor Enyi Etiaba**

Enyi Etiaba graduated from University of Nigeria, Enugu Campus with an MBBS degree in 1988. She obtained her Certificate in General Medical Practice (Family Medicine) of Joint Committee on Postgraduate Training for General Practitioners, London, UK in 2003 and MSc degree from University of London, United Kingdom in 2009. She holds the DLSHTM from London School of Hygiene and Tropical Medicine, London, UK in 2010. She obtained Certificate courses from the University of Western Cape South Africa in: Introduction to Complex Health Systems 2014; Health Management 2017; Understanding and Analysing Health Policy 2017; Introduction to Health Policy and Systems Research 2017.

Dr. Etiaba presently lectures in Epidemiology and Research Methods/Biostatistics at the Department of Health Administration and Management, College of Medicine, University of Nigeria, Enugu Campus but has a keen interest in policy issues and

policy implementation. She is also a senior researcher with the Health Policy Group, College of Medicine, University of Nigeria, Enugu Campus. In addition to teaching skills, she has research skills and project management skills and have been involved in monitoring of various projects in the course of my work. Her ongoing research include capacity building of producers and users of evidence in Health Policy and Systems Research and Analysis for better control of endemic tropical diseases-An implementation research; Determinants of Effectiveness and Sustainability of a Novel Community Health Workers Programme in improving Maternal and Child Health in Nigeria.- A Realist Evaluation. She is a Research Fellow of the Institute.

Google scholar citation link: <https://www.researchgate.net/profile/Enyi-Etiaba-2>

ResearchGate link: <https://www.researchgate.net/profile/Enyi-Etiaba-2>

- **Prof Victor Udem Onyebueke**

Victor Udemezue Onyebueke is a Senior Lecturer in the Department of Urban and Regional Planning of the University of Nigeria, Enugu Campus (Nigeria), where he is involved in teaching, research and consultancy. Dr. Onyebueke holds a Bachelor's and Master's degrees in Urban and Regional Planning from the University of Nigeria. He has since obtained a Postgraduate Diploma in Urban Land Policy & Implementation at the Institute for Housing and Urban Development Studies (now IHS-Erasmus University) in Rotterdam, Netherlands (June, 2006) and a Ph.D. in Geography and Environmental Science from the Stellenbosch University, Matieland, South Africa (December, 2013). His research interests include globalisation, urban land use dynamics, urban informality and inclusive planning. He co-authored a chapter in the recent book, Planning and the Case Study Method in Africa: The Planners in Dirty Shoes (Palgrave MacMillan, 2014) edited by James Duminy, et al., on the coercive and contradictory practices of planning in (re)locating informal businesses in Enugu, Nigeria. Dr Onyebueke's articles have appeared in several journals, including Cities (Elsevier), Urban Forum (Springer), and Habitat International (Elsevier). The title of his current research, as a Visiting Fellow at the African Studies Centre (ASC), Leiden, is "Globalisation, Football and emerging urban 'tribes': Fans of the European Leagues in a Nigerian city".

Google scholar citation link:

<https://scholar.google.com/citations?user=z7QeJpgAAAAJ&hl=en>

ResearchGate link: <https://www.researchgate.net/profile/Victor-Onyebueke>

- **Dr Charles Ezenduka**

ResearchGate link: <https://www.researchgate.net/profile/Charles-Ezenduka>

Google scholar citation link:

<https://scholar.google.com/citations?user=Jq3b7I8AAAAJ&hl=en>

- **Dr Chinyere Okeke**

Dr. Okeke Chinyere Cecilia graduated from the University of Calabar as a medical doctor in 2007 and obtained her Master of Public Health degree from the University of

Nigeria Nsukka in 2015. She obtained a Certificate in Health Policy Analysis from the University of Western Cape in 2016. She is a Fellow of the West African College of Physician (Community Health). She is currently a lecturer in the Department of Community Medicine, Faculty of Medical Sciences, College of Medicine of the University of Nigeria.

She is involved in Clinical Consultation (general care), outpatient and inpatient care in both chest, staff and HIV clinics of the University of Nigeria Teaching Hospital; teaching and research in communicable and non-communicable diseases. Over the past three years, she has been lecturing medical students and community health officers and has supervised medical students' projects.

She has been involved in a lot of projects including Developing the study manual for the Realist evaluation of MCH programs in Nigeria – REVAMP project (MRC & DFID funded) in Anambra State, Nigeria; assessment of the NHIS-MDG free Maternal and Child Health program and the prospects for program re-activation/scale-up using the Basic Health Care Provision Fund (Bill & Melinda Gate Foundation Funded) and the Nigerian Primary Care Systems Profiles & Performance (PRIMASYS) funded by the Alliance for Health Policy and Systems Research. Geneva, Switzerland. She was also involved in the development of modules on prevention of viral hepatitis for the training of health workers on Hepatitis infection in Nigeria for the federal Ministry of Health and the development of the Strategic Health Development Plan of Enugu State Nigeria.

She is a member of the following professional associations: Nigerian Medical Association, Association of Public Health Physicians of Nigeria, International Health Economics Association and Health Systems Global. Her research interest is Health Policy and Systems Research and Analysis as well as knowledge translation.

ResearchGate link: <https://www.researchgate.net/profile/Chinyere-Okeke-4>

- **Mrs. Uche Ezenwaka**

ResearchGate link: <https://www.researchgate.net/profile/Uchenna-Ezenwaka>

- **Mrs. Ifeyinwa Arize**

Google scholar citation:

<https://scholar.google.com/citations?user=ddA14zkAAAAJ&hl=en>

ResearchGate link: <https://www.researchgate.net/profile/Ifeyinwa-Arize>

- **Dr Prince Agwu**

Google scholar citation link: [https://scholar.google.com/citations?user=q\\_rrL-0AAAAJ&hl=en](https://scholar.google.com/citations?user=q_rrL-0AAAAJ&hl=en)

ResearchGate link: <https://www.researchgate.net/profile/Prince-Agwu>

- **Dr Aloysius Odii**

Aloysius Odii holds a Ph.D. in Demography and Population studies from the University of Nigeria, Nsukka. He is a passionate researcher and teacher. His research interest includes Sexual and Reproductive Health, Health Systems, Corruption, and Migration.

Google scholar citation link:

[https://scholar.google.com/citations?user=\\_Qcmdl0AAAAJ&hl=en](https://scholar.google.com/citations?user=_Qcmdl0AAAAJ&hl=en)

ResearchGate link: <https://www.researchgate.net/profile/Aloysius-Odii>

- **Dr Charles Orjiakor**

Researchgate link: <https://www.researchgate.net/profile/Tochukwu-Orjiakor>

Google scholar citation link:

<https://scholar.google.com/citations?user=zQoIRZ0AAAAJ&hl=en>

- **Dr Chukwudi Nwokolo**

ResearchGate link: <https://www.researchgate.net/profile/Chukwudi-Nwokolo>

- **Dr Divine Obodoechi**

Google scholar citation link:

<https://scholar.google.com/citations?user=pVH3fzUAAAAJ&hl=en>

- Ifunanya Agu
- Iheomimichineke Ojiakor
- Chinelo Obi
- Okechukwu Ozor

### **10 key publications of the RG from 2019 till date:**

- Onwujekwe, Obinna & Agwu, Prince & Orjiakor, Tochukwu & Mckee, Martin & Hutchinson, Eleanor & Mbachu, Chinyere & Odii, Aloysius & Ogbozor, Pamela & Obi, Uche & Ichoku, Hyacinth & Balabanova, Dina. (2019). Corruption in Anglophone West Africa health systems: A systematic review of its different variants and the factors that sustain them. *Health policy and planning*. 34. 10.1093/heapol/czz070.
- Eze, Irene & Okeke, Chinyere & Ekwueme, Chinazom & Mbachu, Chinyere & Onwujekwe, Obinna. (2023). Acceptability of a community-embedded intervention for improving adolescent sexual and reproductive health in south-east Nigeria: A qualitative study. *PLOS ONE*. 18. E0295762. 10.1371/journal.pone.0295762.
- Agu, Ifunanya & Agu, Chibuiké & Mbachu, Chinyere & Onwujekwe, Obinna. (2023). Impact of a capacity-building intervention on views and perceptions of healthcare providers towards the provision of adolescent sexual and reproductive health services in southeast Nigeria: a cross-sectional qualitative study. *BMJ Open*. 13. e073586. 10.1136/bmjopen-2023-073586.
- Ogbozor, Pamela & Hutchinson, Eleanor & Goodman, Catherine & McKee, Martin & Onwujekwe, Obinna & Balabanova, Dina. (2023). The nature, drivers and equity consequences of informal payments for maternal and child health care in primary health centres in Enugu, Nigeria. *Health Policy and Planning*. 38. ii62-ii71. 10.1093/heapol/czad048.
- Onwujekwe, Obinna & Orjiakor, Tochukwu & Ogbozor, Pamela & Agu, Ifunanya & Agwu, Prince & Wright, Tom & Balabanova, Dina & Kohler, Jillian. (2023).

Examining corruption risks in the procurement and distribution of COVID-19 vaccines in select states in Nigeria. *Journal of Pharmaceutical Policy and Practice*. 16. 10.1186/s40545-023-00649-7.

- Agwu P et al (2023). Targeting systems not individuals: Institutional and structural drivers of absenteeism among primary healthcare workers in Nigeria. *The International journal of health planning and management*. 10.1002/hpm.3736.
- Onwujekwe OE et al (2023). What are the research priorities for strengthening public health emergency preparedness and response in Africa?. *Health Research Policy and Systems*. 21. 10.1186/s12961-023-01059-6.
- Orjiakor, Tochukwu & Onwujekwe, Obinna & McKee, Martin & Hutchison, Eleanor & Agwu, Prince & Balabanova, Dina. (2023). "I can't kill myself": Local narratives and meanings that foster absenteeism in Nigerian primary health centres. *Journal of Global Health*. 13. 10.7189/jogh.13.04129.
- Onwujekwe OE et al (2020). Impact of capacity building interventions on individual and organizational competency for HPSR in endemic disease control in Nigeria: a qualitative study. *Implementation Science*. 15. 10.1186/s13012-020-00987-z.
- Onwujekwe OE et al (2023). The Promise of Grassroots Approaches to Solving Absenteeism in Primary Health-Care Facilities in Nigeria: Evidence from a Qualitative Study. *Health Systems & Reform*. 9. 10.1080/23288604.2023.2199515.

## FACULTY OF BASIC MEDICAL SCIENCES

### 17. Molecular and Cell Biology of infectious and non-infectious Diseases Research group

**Main Research Focus and other areas of research interest:** Prevalence of infectious and non-infectious diseases (with focus on the Neglected Tropical Diseases), genetics of protozoan parasites, Plant-derived compounds as agents of anti-parasitic chemotherapy, Drug repurposing in parasite chemotherapy, Drug resistance in protozoan parasites, Natural compounds as agents of non-infectious disease chemotherapy, etc.

**Title of the most recent project:** Plasmodium falciparum Kelch 13 polymorphism in South-East Nigeria: implications for artemisinin resistance.

#### Other current or completed research projects:

- Molecular identification and characterization of trypanosomes in tsetse flies from Onicha Ugbo In Delta State of Nigeria

**Name of the Coordinator:** Dr Kenekwelu Onyekwelu

**UNN email address of the Research Group (RG):** [mcbind.rg@unn.edu.ng](mailto:mcbind.rg@unn.edu.ng)

**UNN email address of the Coordinator:** [kenekwelu.onyekwelu@unn.edu.ng](mailto:kenekwelu.onyekwelu@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/molecular-and-cell-biology-of-infectious-and-non-infectious-diseases-research-group/>

**Phone number of the RG:** 08030470701

**Phone number of the Coordinator:** 08030470701

**Base Faculty/Institute/Centre of the RG:** Faculty of Basic Medical Sciences

**Department of the Coordinator:** Medical Biochemistry

**List and brief profile of members:**

- Dr Onyekwelu Kenechukwu is a Lecturer in the Department of Medical Biochemistry (Biochemical and Molecular Parasitology unit), College of Medicine, University of Nigeria, Enugu Campus. His research interest is in the area of Neglected Tropical Disease with particular interest in trypanosomiasis, schistosomiasis and malaria.
- Dr Anthonius A. Eze is a best graduating student of the Department of Biochemistry, University of Nigeria. He has an MSc in Biochemistry from the University of Port Harcourt, and a PhD in Biochemical Parasitology from the University of Glasgow, Scotland. His Doctoral studies was funded by a Commonwealth Scholarship, and his Postdoctoral training was supported by a Commonwealth Academic Fellowship. Dr Eze is currently an Associate Professor in the Department of Medical Biochemistry, UNEC. His research is in Biochemical parasitology and parasite genomics.

**Members' Google Scholar Citation links:**

- Dr Onyekwelu, Kenechukwu C. :  
<https://scholar.google.com/citations?user=DR8pv08AAAAJ&hl=en>
- Dr Anthonius A. Eze: <https://scholar.google.com/citations?user=xOG24qoAAAAJ>

**Members' Researchgate links:**

- Dr Onyekwelu Kenechukwu C.:  
<https://www.researchgate.net/profile/Kenechukwu-Onyekwelu>
- Dr Anthonius A. Eze: <https://www.researchgate.net/profile/Anthonius-Eze>

**10 Key Publications of the RG from 2019 till date:**

- Akazue, P.I., Ebiloma, G.U., Ajibola, O., Isaac, C., Onyekwelu, K., Ezeh, C.O. and Eze, A.A.(2019). Sustainable Elimination (Zero Cases) of Sleeping Sickness: How Far Are we from Achieving This Goal? *Pathogens* **8**, 135.
- Onyekwelu, K. C., Ejezie, F. E., Eze, A. A., Ikekpeazu, J. E., Isaac, C., Ibegbu, D. M. and Ogbunude P. O. J. (2017). Molecular identification of trypanosomes in tsetse flies trapped from Onicha Ugbo In Delta State of Nigeria. *Biomed Res-India* 28(12): 5463-5467.
- Onyekwelu, K. C et al (2017). Prevalence of trypanosome infection in tsetse flies from Oji River and Emene axis of Enugu state, Nigeria: A preliminary report. *Trop Parasitol* 7(2): 98-102.
- Ezeh CO, Onyekwelu KC, Akinwale OP, Shan L, Wei H (2019). Urinary schistosomiasis in Nigeria: a 50 year review of prevalence, distribution and disease burden. *Parasite*; 26:19. doi: 10.1051/parasite/2019020. Epub 2019 Apr 3. PMID: 30943149; PMCID: PMC6447092.

## 18. Neuroscience Education and Research Group

**Main Research Focus of the RG:** Research and Education activities to promote Neuroprotective practices

**Title of most recent research project:** Exploration of neuroprotective plants and natural products against environmental toxins

**Name of the Coordinator:** Emmanuel A. Esom, Ph.D

**UNN email address of the RG:** [nearge@unn.edu.ng](mailto:nearge@unn.edu.ng)

**UNN email address of the coordinator:** emmanuel.esom@unn.edu.ng

**Current webpage of the RG:** <https://www.unn.edu.ng/neuroscience-education-and-research-group-2/>

**Phone number of the RG:** 234 809 0153 777

**Phone number of the coordinator:** +234 808 6685 967

**Base Faculty/Institute/Center of the RG:** Basic Medical Sciences

**Department of the Coordinator:** Anatomy Department

**Headshot of the coordinator (not mandatory)**

**List of members with their primary research focus:**

- Dr Emmanuel A. Esom – Neuroprotection, natural products, environmental neurotoxicology and movement disorders
- Prof Joy E. Ikekpeazu – Neurochemistry and brain gut axis
- Dr Augustine U Agu – Clinical Neurosciences and education
- Dr Nto J. Nto – Natural products and neuroprotection
- Dr Samuel Chime – Neuropharmacology
- Dr Chinaza Uguru – Neurophysiology and Neurobehaviour
- Dr Elizabeth Finbarrs-Bello – Natural products and Environmental Neurotoxicology
- Dr Vivian Orjiakor – Neurotoxicology and neuroprotection

**Key publications from research group since 2019:**

- Rademene Oria, Anyanwu Emeka, Emmanuel Esom, Johnson Nto, Amechi Katchy, Augustine Agu, Omamuyovwi Ijomone. Modulatory role of curcumin on cobalt-induced cognitive deficit, hippocampal oxidative damage, astrogliosis, and Nrf2 expression. 2023; Neurotoxicity Research <https://doi.org/10.1007/s12640-023-00635-6>
- Emmanuel A. Esom, Nnaemeka E. Akpu, Vivian Ojiakor, Augustine Agu, Nto Johnson, Samuel Chime, Emeka Anyanwu. Effect of Ethanolic Extract of Aju Mbaise on the Histomorphology of the Hippocampus and the Hypothalamus of Adult Wistar Rats Exposed to High-Fat Diet. 2022; Tropical Journal of Natural Products Research 6(10): ISSN 2616-0692, Available online at <https://www.tjnpr.org>
- Nto Johnson Nto, Chike I Patrick Anibeze, Elizabeth Finbarrs-Bello, Emmanuel Anayochukwu Esom, Uloaku Akubueze Nto-Ezimah. Phytochemical Composition and Acute Oral Toxicity Study of Ethanolic Extract of Root of Plumbago Zeylanica. 2021; Der Pharma Chemica, 13(10): 16-19



- Vivian Atuadu, Ben-Azu Benneth, John Oyem, EA Esom, Chris Mba, Kate Nebo, Godswill Ezemeka and Chike Anibeze. *Adansonia digitata* L. Leaf Extract Attenuates Lead Induced Cortical Histoarchitectural Changes and Oxidative Stress in the Prefrontal Cortex of Adult Male Wistar Rats. 2020; *Drug Metabolism and Personalized Therapy*. <https://doi.org/10.1515/dmpt-2020-0116>
- Anyanwu GE, Atuadu VO, Esom, EA, Katchy AU. Putative Role of Monoaminergic Systems in Antidepressant-Like and Anxiolytic Effects of Naringin in Mice: An Interaction Study with Receptor Antagonists. 2021; *Journal of Pharmaceutical Research International*; 33(47B): 661 – 676. DOI: 10.9734/JPRI/2021/v33i47B33168
- Finbarrs-Bello E, EA Esom, Agu CG. Melatonin ablate Astrogliosis in Status Epilepticus Model: An Adjuvant to Anticonvulsant Therapy. 2021; *Era's Journal of Medical Research* 8(1): 1-6
- Emeka G Anyanwu, Vivian O Atuadu, Anthony A Egwuatu, Christian E MBAH, Chiadikaobi L Ozoemena and EA Esom. Effect of ethanolic rind extract of *Citrullus lanatus* on hypothalamic-pituitary-gonadal axis structures, sexual behaviour and hormones of female Wistar rats. 2021; *Journal of Pharmacognosy and Phytochemistry*; 10(4): 60-65ss

## FACULTY OF BIOLOGICAL SCIENCES

### 19. Applied Microbiology and Environmental Biotechnology (AMEB) Research Group

**Main Research Focus:** Environmental restoration and sustainability; Microbial/molecular ecology and evolution; Biodiversity of soil and water microbes; Bioremediation and waste management; Microbe-metal interactions; Antibiotic resistance; Climate change

**Title of most recent research project:** Biodegradation of atrazine in contaminated soil, using biochar and poultry manure as amendments.

**Other current or completed research projects:**

1. Antibiotic resistant gene profile and mobility in selected enterobacteria associated with effluents from sewage treatment plants, hospitals and factory farms
2. Prevalence and antimicrobial resistance of bacterial uropathogens among pregnant women with urinary tract infection in Nigeria.
3. Keratinolytic potentials of microorganisms isolated from abattoir waste dumps in Enugu metropolis, Enugu State, Nigeria.
4. Bioaugmentation with microbial isolates obtained from petroleum-contaminated soils in Nsukka, Enugu State, Nigeria.
5. Identification of important properties for adaptation of soil bacteria in herbicide contaminated soil
6. Engineering the plant microbiome to enhance plant growth through improving phosphorus nutrition.
7. Mechanism of heavy metal remediation and plant growth promotion by nitrifying bacteria

**Name of the Coordinator:** Professor Chukwudi U. Anyanwu

**Email Address:** [chukwudi.anyanwu@unn.edu.ng](mailto:chukwudi.anyanwu@unn.edu.ng)

**Phone Number:** +234 8037740104

**Base Faculty/Department of Research Group:** Biological Sciences/Microbiology

**Department of Coordinator:** Microbiology

**Email Address of Research Group:** [ameb@unn.edu.ng](mailto:ameb@unn.edu.ng)

**UNN webpage:** <https://www.unn.edu.ng/applied-microbiology-and-environmental-biotechnology-research-group/>

**Members:**

Professor Chukwudi U. Anyanwu, Department of Microbiology, U.N.N. (Coordinator)

Prof. Vincent N. Chigor, Department of Microbiology, U.N.N.

Prof. Charles O. Nwuche, Department of Microbiology, U.N.N

Dr. Simeon C. Enemuor, Department of Microbiology, U.N.N.

Dr. Chibuzor N. Eze, Department of Microbiology, U.N.N.

Dr. Chukwudi O. Onwosi, Department of Microbiology, U.N.N.

Dr. Chukwudi I. Nnamchi, Department of Microbiology, U.N.N.

Akpanke, Justin, Ph.D. Student, Department of Microbiology, U.N.N.

Madueke, Stella N., Ph.D. Student, Department of Microbiology, U.N.N.

Aliyu, Gogwin O., M.Sc. Student, Department of Microbiology, U.N.N.

Eze, Chikezie E., M.Sc. Student, Department of Microbiology, U.N.N.

## 20. Bioenergy, Bioprocess and Environmental Conservation Research Group

**Main Research Focus and other areas of research interest:** Environmental sustainability, environmental conservation, environmental chemistry, waste recycling, remediation of polluted environment, renewable energy, bioprocessing and biodiversity.

### Description of RG:

Bioenergy, Bioprocess and Environmental Conservation Research Group is based at the University of Nigeria Nsukka (UNN). Members of the research group are staff and postgraduate students with interest in Environmental science, Industrial Microbiology and biotechnology, and environmental chemistry. The research group areas of focus are in Environmental sustainability, environmental conservation, environmental chemistry, waste recycling, remediation of polluted environment, renewable energy, bioprocess and biodiversity

### Current research projects:

- Development of a microbial consortia for polyethylene degradation.
- Quantifying the biodiversity drivers of the forests in the South East region.
- Life Cycle Analysis (LCA) of plastics and food wastes

**Name of the coordinator:** Professor Anene Nwabu Moneke

**UNN email address of the RG:** [bbe.research@unn.edu.ng](mailto:bbe.research@unn.edu.ng)

**UNN email address of the coordinator:** [bbe.research@unn.edu.ng](mailto:bbe.research@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/bioenergy-bioprocess-and-environmental-conservation-research-group/>

**Phone number of the RG:** +2348033357734

**Phone number of the coordinator:** +2348033357734

**Base Faculty/Institute /Centre of the RG:** Faculty of Biological Sciences

**Department of the coordinator:** Microbiology

### List and brief profiles of members:

- Prof. Anene Moneke: He is a professor of industrial and environmental microbiology, in the department of Microbiology, UNN. He is also the current Director of the Centre for Environmental Management and Control, UNN. [https://www.unn.edu.ng/internals/files/staff\\_CV/4474\\_Moneke\\_Anene.pdf](https://www.unn.edu.ng/internals/files/staff_CV/4474_Moneke_Anene.pdf)
- Dr. Solomon Odiba: He possesses a Master of Science in Biochemistry (Biomedicine Proteomics and Biotechnology), and a PhD in Biochemistry. He is also a lecturer in the Department of Molecular genetics and biotechnology, UNN <https://www.unn.edu.ng/internals/staff/viewProfile/MTk2Ng-->
- Dr. Chukwuemeka Samson Ahamefuna: He is a PhD holder in Industrial Microbiology and Biotechnology. He is a lecturer in the Department of Microbiology, UNN.
- Mr. Chukwuemeka Cornelius Ezeh: He has a Master of Science in Microbiology (Environmental Microbiology and Biotechnology). He is currently pursuing a PhD. programme in Environmental Management and Control. He is also a lecturer in the Department of Microbiology.
- Mr. Ifeanyi Adolphus Ucheana: He holds a Master's degree in Environmental Management and an M.Sc. in Analytical Chemistry. He is a Technologist at UNN and

his research interests include Bioenergy, Bioprocess, Energy Conservation Analytical Chemistry, Environmental Chemistry, Food Chemistry, and Green Chemistry.

- Mr. Stanley Nwoke: He holds a B.Sc. degree in Chemistry, and a M.Sc. degree in Analytical Chemistry. He is a Laboratory Technologist and Chemical Analyst at UNN.
- Ms. Chinonye Jennifer Obi: She has an M.Sc. degree in Environmental Microbiology and currently pursuing her Ph.D. programme in Environmental Management and Control.

#### **Members Research gate and Google Scholar Citation links:**

- Prof. Anene Moneke

Research gate link: <https://www.researchgate.net/profile/Anene-Moneke-2>

Google Scholar Citation link:

[https://scholar.google.com/citations?user=4Da5\\_hgAAAAJ&hl=en](https://scholar.google.com/citations?user=4Da5_hgAAAAJ&hl=en)

- Dr. Solomon Odiba

Research gate link: <https://www.researchgate.net/scientific-contributions/Arome-Solomon-Odiba-2064601680>

Google Scholar Citation link:

[https://scholar.google.com/citations?view\\_op=new\\_articles&hl=en&imq=Odiba+Arome+Solomon#](https://scholar.google.com/citations?view_op=new_articles&hl=en&imq=Odiba+Arome+Solomon#)

- Dr. Chukwuemeka Samson Ahamefuna

Research gate link: [https://www.researchgate.net/profile/Chukwuemeka-Ahamefule?ev=hdr\\_xprf](https://www.researchgate.net/profile/Chukwuemeka-Ahamefule?ev=hdr_xprf)

Google Scholar Citation links: <https://scholar.google.com/citations?user=z-cbHycAAAAJ&hl=en>

- Mr. Chukwuemeka Cornelius Ezeh

Research gate link: <https://www.researchgate.net/profile/Chukwuemeka-Ezeh>

Google Scholar Citation links:

<https://scholar.google.com/citations?user=hjyAcZEAAAAJ&hl=en&authuser=1>

- Mr. Ifeanyi Adolphus Ucheana

Research gate link: <https://www.researchgate.net/profile/Ifeanyi-Ucheana>

Google Scholar Citation links:

<https://scholar.google.com/citations?user=yYUzNcYAAAAJ&hl=en>

- Mr. Stanley Nwoke

Research gate link: <https://www.researchgate.net/profile/Stanley-Nwoke>

Google Scholar Citation links:

<https://scholar.google.com/citations?user=nhcsGboAAAAJ&hl=en&authuser=2>

- Ms. Chinonye Jennifer Obi

Research gate link: <https://www.researchgate.net/profile/Chinonye-Obi-3>

Google Scholar Citation links:

<https://scholar.google.com/citations?hl=en&authuser=1&user=P-KT2osAAAAJ>

#### **10 key publications of the RG from 2019 till date:**

- Moneke, A.N., Ezeh. C.C. and Obi, C.J. (2022) Prevalence of respiratory related ailment among residents of gas flaring states in Nigeria: a systematic review and meta analysis. Air Quality, Atmosphere & Health, 1-14. DOI: <https://doi.org/10.1007/s11869-022-01221-z>

- Ezeh, C.C., Obi, C.J. and Moneke, A.N. (2022) Application of microbial synthesized phytohormones in the management of environmental impacts on soils. *Bio-Research*, 20 (1): 1409-1425. DOI: <https://dx.doi.org/10.4314/br.v20i1.3>
- Aduba, C.C., Ndukwe, J.K., Onyejiaka, C.K., and Moneke, A.N. (2023) Integrated Valorization of Cassava Wastes for Production of Bioelectricity, Biogas and Biofertilizer. *Waste and Biomass Valorization* (2023). <https://doi.org/10.1007/s12649-023-02126-3>
- Ahamefule, C.S. et al (2023). Juxtaposing *Caenorhabditis elegans*-pathogenic mould model with other models; how reliable is this nematode model? A mini review. *Current Microbiology*, 80(4):105. doi:10.1007/s00284-023-03209-z
- Odiba, A. S et al (2022). Loss of NSE-4 Perturbs Genome Stability and DNA Repair in *Caenorhabditis elegans*. *International journal of molecular sciences*, 23(13): 7202. <https://doi.org/10.3390/ijms23137202>
- Ezeh, C.C., Obi, C.J. and Moneke, A.N. (2022) Application of microbial synthesized phytohormones in the management of environmental impacts on soils. *Bio-Research*, 20 (1): 1409-1425. DOI: <https://dx.doi.org/10.4314/br.v20i1.3>
- Moneke, A., Amadi, O., Nnamchi, C., Nwagu, T., Okolo, B. and Agu, R. (2022) Optimization of the production of neutral spirit from renewable yam and cassava starch substrates – A practical approach. *Biocatalysis and Agricultural Biotechnology*, 42: 102352.
- Moneke, A.N., Ezeh. C.C. and Obi, C.J. (2022) Prevalence of respiratory related ailment among residents of gas flaring states in Nigeria: a systematic review and meta analysis. *Air Quality, Atmosphere & Health*, 1-14. DOI: <https://doi.org/10.1007/s11869-022-01221-z>
- Ahamefule, C.S., Ugwuodo, C.J., Idike, P.O. and Ogbonna, J.C. (2021). Application of photosynthetic microalgae in the direct desalination pretreatment of seawater. *Water and Environment Journal*, 35(2): 657-669. doi:10.1111/wej.12659.
- Ahamefule, C.S., Ezeuduji, B.C., Ogbonna, J.C., Moneke, A.N., Ike, A.C., Wang, B., Jin, C. and Fang, W. (2021). *Caenorhabditis elegans* as an infection model for pathogenic mould and dimorphic fungi: Applications and challenges. *Frontiers in Cellular and Infection Microbiology*, 11:751947. doi:10.3389/fcimb.2021.751947.
- Ahamefule, C.S et al (2020). Marine bioactive compounds against *Aspergillus fumigatus*: Challenges and future prospects. *Antibiotics*, 9(11).
- Ahamefule, C.S. et al (2018). Application of photosynthetic microalgae as efficient pH bio-stabilizers and bio-purifiers in sustainable aquaculture of *Clarias gariepinus* (African catfish) fry. *Nigerian Journal of Biotechnology*, 35(2): 139-150.

**List of patents/exhibitions/shows/productions, etc from 2019 till date:**

1st International Conference: Climate Change in COVID-19 Era. Organised by the Centre for Environmental Management and Control, UNN and the School of Environment and Safety Engineering, Jiangsu University, China, in partnership with the Bioenergy, Bioprocess and Environmental Conservation Research Group.

## 21. Genotoxicity and Molecular Toxicology Research Group

**Name of Research Group:** Genotoxicity and Molecular Toxicology Research Group

**Main research focus:** Research on all types of pollution by xenobiotics.

**Other areas of research interest:** Environmental pollution

**Title of most recent project:** Multibiomarker responses in freshwater fishes exposed to pharmaceuticals and agrochemicals.

**Name of coordinator:** Prof Christopher D. Nwani

**UNN Email address of the coordinator:** [chris.nwani@unn.edu.ng](mailto:chris.nwani@unn.edu.ng)

**Phone number of the coordinator:** 08037509910

**UNN email address of RG:** [gmrtrg@unn.edu.ng](mailto:gmrtrg@unn.edu.ng)

**UNN webpage of RG:** <https://www.unn.edu.ng/genotoxicity-and-molecular-toxicology-research-group/>

**Base faculty of the RG:** Biological Sciences

**Department of the coordinator:** Department of Zoology and Environmental Biology

**List and brief profile of Members:**

- Prof Christopher Nwani: Senior Lecturer Department of Zoology and Environmental Biology, University of Nigeria Nsukka. His research is in Systematics, Molecular Biology, Biotechnology, DNA barcoding, Environmental Biology and Aquaculture.
- Dr Temitope Melefa: She has a PhD in Hydrobiology from the University of Ibadan and is a LecturerI in the Department of Zoology and Environmental Biology, UNN.  
**Phone Number:**07060555120 **Email Address:**[temitope.melefa@unn.edu.ng](mailto:temitope.melefa@unn.edu.ng)/[ddwura@yahoo.com](mailto:ddwura@yahoo.com)
- Mrs Josephine Ekwezue.
- Mr Uwaoma Uwadiegwu.
- Cajethan Ezeorah.
- Hope Chinwe Ezinwa: She is a lecturerII in the Department of Zoology & Environmental Biology, UNN, with an MSc in Zoology. Phone number: 08037822321; Email: [hope.ezinwa@unn.edu.ng](mailto:hope.ezinwa@unn.edu.ng).

**10 key publications:**

- Chinedu Ifeanyi Atama, Excellence Chidera Nnaji, Ifeanyi Christian Ezeoyili, Faith Okwukwe Udeani, Chioma Juliet Onovo, **Nelson Ike Ossai**, Ifeanyi Oscar Aguzie & Christopher Didigwu Nwani (2020). Neuromodulatory and oxidative stress evaluations in African catfish *Clarias gariepinus* exposed to antipsychotic drug chlorpromazine. **Drug and Chemical Toxicology**. Doi: [org/10.1080/01480545.2020.1822391](https://doi.org/10.1080/01480545.2020.1822391).
- C I Atama, CF Anajemba, ION. Aguzie, JC Madu, **NI Ossai**, CD Nwani (2019). *Psychotria microphylla* induces oxidative stress and biochemical alterations in giant African land snail *Achatina achatina* (Linnaeus, 1758). **African Zoology** (Taylor and Francis) 54: 225-230
- Lucy Nneka Anih, Chinedu Ifeanyi Atama, Chike Obinna Chiejina, Sylvester Ifeanyi Ezeani, Hope Chinwe Ezinwa, Maureen N Chukwu, **Christopher D Nwani (2022)**. Long term integrated biomarker responses in freshwater African Catfish *Clarias gariepinus* exposed to a new brand of herbicide Fluazifop-p-butyl. **Drug and Chemical Toxicology**. [doi.org/10.1080/01480545.2023.2174987](https://doi.org/10.1080/01480545.2023.2174987) (Taylor and Francis)

- Zonkpoedjre Sylvain, Zonkpoedjre Simon, Gerald N Attamah, **Christopher D Nwani** (2022). Assessment of Polycyclic Aromatic Hydrocarbons in Water and Fish and the Associated Human Health Risk at Porto-Novo Lagoon, Benin Republic. **Water Air Soil Pollut (2022) 233:351**. <https://doi.org/10.1007/s11270-022-05809-0> (Springer)
- Chiejina CO et al (2022). Haloperidol alters the behavioral, hematological and biochemical parameters of freshwater African catfish, *Clarias gariepinus* (Burchell 1822). **Comparative Biochemistry and Physiology. Part C 254: 109292 (Elsevier)**
- Sylvain Z et al (2022). Sources, pollution and ecological risk assessment of polycyclic aromatic hydrocarbons (PAHs) in Porto-Novo Lagoon, Benin republic. **Environ Geochem and Health**. <https://doi.org/10.1007/s10653-022-01250-8> (Springer)
- Augustine U. Nnama, Felicia N. Ekeh, Ifeanyi, O. Aguzie, Sunday O. Udegbumam, **Christopher D. Nwani**. (2022). Vanadium pentoxide induces hematological, oxidative stress and histological changes in *Oryctolagus cuniculus*. **Journal of Hazardous Matter Advances 5: 100048 (Elsevier)**
- Temitope Dadewura Melefa, **Christopher Didigwu Nwani** (2021). Imidazole antifungal drug clotrimazole alters the behavior, brain acetylcholinesterase and oxidative stress biomarkers in African catfish *Clarias gariepinus* (Burchell 1822). **Comparative Biochemistry and Physiology, Part C 248: 109108. (Elsevier)**
- Florence Isabella Ogili, Daoud Ali, Gerald N. Attamah, Uduak Aletan, Henrietta Ijeoma Kelle, Maureen N. Chukwu, **Christopher D. Nwani**. (2021). Nwani. Morphometric, hematological and oxidative stress changes in *Clarias gariepinus* following sub-chronic exposure to tramadol. **Comparative Biochemistry and Physiology, Part C, Part C 248:109096. (Elsevier)**
- Aguzie I.O et al. (2021). Behavioral and oxidative stress responses of Eathworm (*Nsukkadrilus mbae* (Segun 1976), exposed to lead and cadmium: A preiliminary investigation. **Soil and sediment contamination**. Doi: 10.1080/15320383.2021.187

## 22. Molecular Biology and Bioresearch group

**Main Research Focus of the RG:** Our group is focused on using molecular and traditional biological methods in understanding human and plant diseases with interests in pathogenesis, virulence and etiology of mycological and bacteriological agents and the susceptibility of such agents to conventional and plant derived antimicrobial agents. We are also looking at mycotoxins in food grains as well as the role of nanotechnology in solving these problems

**Title of most recent research project:** Isolation and Characterization of *Aspergillus* Species and Aflatoxins from Tobacco Snuff Samples

**A maximum of seven (7) other current or completed research projects**

- Isolation and Characterization of gliotoxin-Producing *Aspergillus fumigatus* From Clinical and Environmental Sources
- Pulmonary Aspergillosis in HIV Patients Attending Enugu Ezike General Hospital, Ogrute, Igboeze North L.G.A, Enugu State.
- Antimicrobial Peptides Therapy: An Emerging Alternative for Treating Drug-Resistant Bacteria
- Isolation and Characterization of *Aspergillus* Species and Aflatoxins from Tobacco Snuff Samples Sold Within Nsukka Geo-political Zone in Enugu State

- Isolation and Characterization of *Aspergillus* Species and Aflatoxins from Tobacco Snuff Samples Sold Within Nsukka Geo-political Zone in Enugu State

**Name of the Coordinator:** Prof Emeka Nweze

**UNN email address of the RG:** [molecular.bioresearchgroup@unn.edu.ng](mailto:molecular.bioresearchgroup@unn.edu.ng)

**UNN email address of the coordinator:** [emeka.nweze@unn.edu.ng](mailto:emeka.nweze@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/molecular-biology-and-bioresearch-group/>

**Phone number of the RG:** c/o 08022754855

**Phone number of the coordinator:** 08022754855

**Base Faculty/Institute/Center of the RG:** Faculty of Biological sciences

**Department of the Coordinator:** Microbiology

#### **List and brief profiles of members**

- The chairman of the Molecular biology and Bioresearch group is Prof. Emeka I Nweze (Email: [emeka.nweze@unn.edu.ng](mailto:emeka.nweze@unn.edu.ng), Phone number: 08022754855) of the Department of Microbiology, University of Nigeria, Nsukka. Prof. Nweze is a medical microbiologist, public health expert and a registered medical laboratory scientist with a wide range of research experience in molecular biology, mycology, bacteriology and plant derived antimicrobial agents. He has published many quality articles in peer-reviewed international and local journals and reviews for over 10 international journals including one where he sits on the editorial board. He is also the Editor-in-Chief of the faculty of Biological Sciences research Journal, Bio-Research
- Prof. Christopher Onyeke, of the Department of Plant Science and Biotechnology is the Vice Chairman of the group. He has master and doctoral degrees in plant pathology and has published in many quality local and international journals and is on the editorial board of Bio-Research journal.
- Prof. Uwakwe Onoja of the Department of Nutrition and Dietetics, Faculty of Agriculture, University of Nigeria, Nsukka serves as the group project manager and most recently coordinated one of our mycotoxin studies. He is also widely published.
- Other members include Nweze Justus, MSc and PhD candidate who is a lecturer in the Department of Science Laboratory Technology, UNN. Paul Chidebelu, (MSc, Medical Microbiology and PhD candidate) and Mba Ifeanyi MSc student are both members of the research group. They are both graduate students in the Department of Microbiology, University of Nigeria, Nsukka
- The group is also collaborating with international researchers in different parts of the world such as USA, Germany and The Netherlands. In fact, we are currently carrying out some joint studies with the group in The Netherlands on molecular typing of *Cryptococcus* species isolated from Nigeria.

#### **Members Google Scholar Citation links**

- Prof. Emeka Nweze: [nweze emeka innocent – Google Scholar](#)
- Prof. Christopher Onyeke: [christopher onyeke – Google Scholar](#)
- Prof. Uwakwe Onoja: [Uwakwe Simon Onoja - Google Scholar](#)
- Nweze Justus: [Justus Amuche Nweze - Google Scholar](#)
- Mba Ifeanyi: [Ifeanyi Elibe Mba - Google Scholar](#)

#### **Members Researchgate links**

- Prof. Emeka Nweze: [Emeka I Nweze \(researchgate.net\)](#)
- Prof. Christopher Onyeke: [Christopher C Onyeke \(researchgate.net\)](#)
- Prof. Uwakwe Onoja: [Uwakwe S Onoja \(researchgate.net\)](#)
- Nweze Justus: [Justus Amuche Nweze \(researchgate.net\)](#)
- Mba Ifeanyi: [Mba Ifeanyi Elibe \(researchgate.net\)](#)
- Chidebelu Paul Ekene: [Paul Chidebelu \(researchgate.net\)](#)



### Key publications of the RG from 2019 till date

- Ifeanyi Elibe Mba and Emeka Innocent Nweze. Antimicrobial Peptides Therapy: An Emerging Alternative for Treating Drug-Resistant Bacteria. *Yale Journal of Biology and Medicine*, 95(4): 4):445-463.
- Mba Ifeanyi Elibe, Nweze Emeka Innocent, Zikky Anyaegbunam and Emmanuel Eze. Genome plasticity in *Candida albicans*: A cutting-edge strategy for evolution, adaptation, and survival. *Infection, Genetics and Evolution* (2022), <https://doi.org/10.1016/j.meegid.2022.105256>.
- Chidebelu PE, Nweze EI, Meis JF, Hagen F. Multi-locus sequence typing reveals genotypic similarity in Nigerian *Cryptococcus neoformans* AFLP1/VNI of environmental and clinical origin 2021. *Journal of Medical Microbiology*. DOI 10.1099/jmm.0.001440, In press
- Akaihe CL and Nweze EI. Epidemiology of *Cryptococcus* and cryptococcosis in Western Africa. *Mycoses*.2021, 64(1):4-17. Doi: 10.1111/myc.13188.
- CW Eze, EI Nweze, CA Nsude. Chemoprotective effects of *Allium cepa* and *Allium sativum* on lead acetate-mediated oxidative stress and dyslipidemia in Wistar rats. *Comparative Clinical Pathology*, 2021,30 (1), 89-95.
- Chidebelu PE and Nweze EI. The persistence of amoebiasis caused by *Entamoeba histolytica* in Nigeria and the role of nutrition. *Ann Parasitol*, 2020, 66(3):271-282. Doi: 10.17420/ap6603.265
- Mba IE and Nweze EI. Mechanism of *Candida* pathogenesis: revisiting the vital drivers. *Eur J Clin Microbiol Infect Dis*. 2020, 39(10):1797-1819. Doi: 10.1007/s10096-020-03912-w
- Mba IE and Nweze EI. The use of nanoparticles as alternative therapeutic agents *Candida*: an up-to-date overview and future perspectives. *World J Microbiol Biotechnol*. 2020;36(11):163. Doi: 10.1007/s11274-020-02940-0.
- Nweze Justus Amuche, Nweze Emeka Innocent, Onoja Uwakwe Simon. Nutrition, Malnutrition and Leishmaniasis. *Nutrition*. 2020. 73:110712. <https://doi.org/10.1016/j.nut.2019.110712>
- EI Nweze, IE Mba. Genetic relatedness between human and animal *Candida albicans* isolates recovered from Southeastern Nigeria using random amplification of polymorphic DNA-PCR. *Journal of Basic Pharmacology and Toxicology* 2020, 4 (1), 16-22
- JU Okafor and EI Nweze. Antibiotic susceptibility of *Escherichia coli* isolated in cases of urinary tract infection in Nsukka, Nigeria. *Journal of Pre-Clinical and Clinical Research*.2020. 14(1), 1-7
- Chidebelu Paul and Nweze Emeka. Pathogenicity of *Cryptococcus neoformans* VNI (ST 32) recovered from clinical and environmental samples in Nigeria. *Comp Clin Pathol* 2019. *Comp Clin Pathol* 2019, 28, 1013–1024
- IE Mba, EI Nweze. (2019). Antifungal resistance profile and enzymatic activity of *Candida* species recovered from human and animal samples. *Bio-Research* 17 (1), 1044A-1055A
- Eneh Chiamaka, Nweze Emeka and Eke Ifeanyichukwu. Incidence and antimicrobial susceptibility of *Listeria monocytogenes* isolated from different food sources in Enugu, Nigeria. *Asian J. Biol. Sci.*, 2019, 12(4): 671-676.
- Asogwa Paul Onyedikachi, Nweze Emeka Innocent and Eke Ifeanyichukwu Emmanuel. Prevalence, biofilm formation and antimicrobial susceptibility testing of bacterial and fungal etiological agents associated with external ocular infections in Nigeria. *Asian J. Biol. Sci.*, 2019, 12(4): 677-681.

List of patents/exhibitions/shows/productions, etc from 2019 till date: Nil

## 23. Society For Animal and Environmental Biology (SAEB)

**Main Research Focus** and other areas of research interest of the **RG**: Ecotoxicology, Animal Biotechnology, Biodiversity Studies, Ecosystem Monitoring, Environmental Management and Animal Bioinformatics. Environmental Biology encompassing such multidisciplinary areas as animal biodiversity prospecting, wildlife conservation and environmental management.

**Title of most recent research project**: Infra-specific variation and compatibility of schistosome parasite species and their snail intermediate host species from the different geopolitical zones of Nigeria.

**A maximum of seven (7) other current or completed research projects**:

- Parasites Diversity of Cave-dwelling Bats in Enugu State, Nigeria
- Succession of Arthropods on Dichlorvos-Treated Carrions in Uburu, Ebonyi State Nigeria.
- Household Survey of Anthropogenic Mosquito Habitats and Abundance of Mosquito Vectors in Nsukka Local Government Area of Enugu State.
- Environmental and Public Health effects of open air defaecation.

**Name of the Coordinator**: Ven. Prof. Ikem Chris. Okoye

**UNN email address of the RG**: [saeb9ja@gmail.com](mailto:saeb9ja@gmail.com)

**UNN email address of the Coordinator**: ikem.okoye@unn.edu.ng

**Current webpage of the RG**: <https://www.unn.edu.ng/society-for-animal-and-environmental-biology-saeb/>

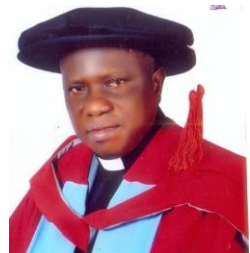
**Phone number of the RG**: +2349080896952

**Phone number of the Coordinator**: 08069284633

**Base Faculty/Institute/Center of the RG**: Biological Sciences

**Department of the Coordinator**: Zoology and Environmental Biology

**Headshot of the Coordinator**



**List of members and brief intro**

- Ven Prof Ikem Chris Okoye - Chairman/Coordinator
- Prof Fabian C Okafoor (Late) - Vice Chairman/ Asst. Coordinator)
- Prof Nduka Rose Obiezue - Seceretary
- Prof Patience Obiageli Ubachukwu
- Dr. Bright Chika Ikele
- Dr. Felicia Ngozi Okoh
- Plus other members from within and outside the university of Nigeria

**Members Google Scholar Citation links**

<https://www.unn.edu.ng/society-for-animal-and-environmental-biology>

## 10 Key publications

- 1<sup>ST</sup> ANNUAL CONFERENCE (UNN 2019). Theme: Sustainable National Development: Role of Animal and Environmental Scientists. Date: 6<sup>th</sup> – 9<sup>th</sup> November, 2019.
- 2<sup>ND</sup> ANNUAL CONFERENCE (VIRTUAL CONFERENCE) (UNN 2020). Theme: Emerging Diseases and Global Environmental Challenges. Date: 14<sup>th</sup> – 17<sup>th</sup> October, 2020
- 3<sup>RD</sup> ANNUAL CONFERENCE (VIRTUAL CONFERENCE) (UNN 2021) Theme: Global Environmental Challenges Date: 3<sup>rd</sup> – 6<sup>th</sup> November, 2021
- 4<sup>TH</sup> ANNUAL CONFERENCE (VIRTUAL CONFERENCE) (UNN 2022). Theme: Combating Global Environmental Challenges. Date: 12<sup>th</sup> – 15<sup>th</sup> October 2022
- SAEB has been publishing Book of Abstracts of SAEB Conferences (ISSN accredited) before each national conference.
- SAEB has been publishing Proceedings of SAEB Conferences (ISSN accredited) after each national conference.

**List of patents/exhibitions/shows/productions from 2019 till date:** SAEB publishes a peer review and ISSN accredited “Journal of Animal and Environmental Biology” (JAEB). - jaeb9ja@unn.edu.ng

## 24. Water & Public Health Research Group (WPHRG)

### Research focus areas/interests:

1. Water, sanitation and hygiene (WASH)
2. Aquatic environments, health and One Health:
3. Water governance and resource management
4. Risk, vulnerability and resilience assessments
5. Water and food security and climate change
6. Bioenergy and biochemicals from wastewater
7. Water and health: Role of the arts/humanities
8. Water and wellbeing: faith and heritage matters
9. Water education, literacy and awareness

### Title of most recent research project:

Antimicrobial Resistance of *Vibrio cholerae*: Assessing Health Risks and the Role of Aquatic Environments (Streams, Rivers and WWTPs) in an Increasing Challenge in Nigeria 2019 — 2024.

### Current or completed research projects

1. 2022 Applied Microbiology International (AMI) Outreach and engagement Grant. Project: Tackling Water, Sanitation and Hygiene Challenges and Transforming University Rural Host-Communities through Health Humanities Outreach (H<sub>2</sub>O) initiative £4,000.00; Nov 01, 2022 — April 30, 2023.
2. 2020 UKRI GCRF/Newton Fund Agile Response COVID-19 Grant (EP/V044613/1). Co-PIs: Dr Shelagh Malham of Bangor University, UK and Dr Renee Street of South Africa Medical Research Council). Project: Co-surveillance

of Wastewater and Environmental Water Samples for SARS-CoV-2 and Other Pathogenic Viruses in South Africa and Nigeria: Incidence and risks. £324,335.00; Nov 05, 2020 — May 04, 2022.

3. 2020 Alliance for African Partnership (AAP) Transforming Institutions Strategic Funding (Exploratory Grant). Co-PIs: Drs Jade Mitchell and Prof. Julie Libarkin of Michigan State University and, Prof. Cheikh B. Gaye of University of Cheikh Anta Diop, Senegal). Project: Water Accessibility, Training Enhancement and Research in Africa Network: The WATER Africa Network. \$20,000.00; Nov 01, 2020 — Oct 31, 2021.
4. 2019 Bangor GCRF (Co-PI: Dr Kata Farkas). Project: Viral dark matter: The emergence and distribution of human and animal viruses in Nigerian waters. £84,324.00; Jan 2020 — Jun 30, 2021.
5. 2019 Tertiary Education Trust Fund (TETFund) Institution Based Research (IBR) Grant. Project: Investigating the aetiology and factors contributing to the occurrence of infantile diarrhoeal disease outbreaks in Nsukka, Southeast Nigeria; ₦1,500,000.00; Jul 01, 2019 — Jun 30, 2021.

**Name of the Coordinator:** Prof. Vincent Nnamdigadi Chigor

**UNN email address:** [wphrg@unn.edu.ng](mailto:wphrg@unn.edu.ng)

**UNN email address of the coordinator:** [vincent.chigor@unn.edu.ng](mailto:vincent.chigor@unn.edu.ng)

**Current webpage:** <https://www.unn.edu.ng/water-and-public-health-research-group-wphrg-2/>

**Phone number of the RG:** 08036922106

**Phone number of the coordinator:** 08036922106

**Base Faculty/Institute/Centre:** Biological Sciences

**Department of the Coordinator:** Microbiology

**Headshot of the coordinator:**



**List and brief profiles of members:**

S/N	Member	Degree/Department and Web Links	
1.	<b>Prof. Vincent N. Chigor</b>	Degree/Department	PhD (Environmental Microbiology)/Microbiology
		UNN website URL	<a href="https://staffprofile.unn.edu.ng/profile/144">https://staffprofile.unn.edu.ng/profile/144</a>
		Google Scholar	<a href="https://scholar.google.com/citations?hl=en&amp;user=aHAXGHYAAAAJ">https://scholar.google.com/citations?hl=en&amp;user=aHAXGHYAAAAJ</a>

	<p>Professor Chigor is an environmental and public health microbiologist experienced in engaging with communities to improve health outcomes and helping people understand the importance of water for every aspect of life. He established (in 2013) and still leads the multidisciplinary Water and Public Health Research Group (WPHRG) at University of Nigeria, Nsukka, Nigeria and is the Convener of the International Conference on Water in Africa (ICWA) &amp; Workshop on Water Testing in Rural Environments for Disease Control. Chigor's PhD research assessed the water quality, incidence of enteric viruses and microbial risks in the Buffalo River in the Eastern Cape Province of South Africa.</p>	ResearchGate	<a href="https://www.researchgate.net/profile/Vincent-Chigor">https://www.researchgate.net/profile/Vincent-Chigor</a>
2.	<b>Dr Ebele C. Amaechina</b>	Degree/Department	PhD (Resource and Environmental Economics)/Agricultural Economics
		UNN website URL	<a href="https://staffprofile.unn.edu.ng/profile/312">https://staffprofile.unn.edu.ng/profile/312</a>
		Google Scholar	<a href="https://scholar.google.com/citations?hl=en&amp;user=CkXGjiUTyK4C">https://scholar.google.com/citations?hl=en&amp;user=CkXGjiUTyK4C</a>
		ResearchGate	<a href="https://www.researchgate.net/profile/Ebele-Amaechina">https://www.researchgate.net/profile/Ebele-Amaechina</a>
3.	<b>Dr Ikechukwu U. Erojikwe</b>	Degree/Department	PhD (Theatre and Film Studies)/Theatre and Film Studies
		UNN website URL	<a href="https://staffprofile.unn.edu.ng/profile/3147">https://staffprofile.unn.edu.ng/profile/3147</a>
		Google Scholar	<a href="https://scholar.google.com/citations?hl=en&amp;user=91slfkUAAAAJ">https://scholar.google.com/citations?hl=en&amp;user=91slfkUAAAAJ</a>
		ResearchGate	<a href="https://www.researchgate.net/profile/Ikechukwu-Erojikwe">https://www.researchgate.net/profile/Ikechukwu-Erojikwe</a>

4.	<b>Prof. Jonah C. Agunwamba</b>	Degree/Department	PhD (Civil Engineering)/Civil Engineering
		UNN website URL	<a href="https://staffprofile.unn.edu.ng/profile/199">https://staffprofile.unn.edu.ng/profile/199</a>
		Google Scholar	
		ResearchGate	<a href="https://www.researchgate.net/profile/Jonah-Agunwamba-2">https://www.researchgate.net/profile/Jonah-Agunwamba-2</a>
5.	<b>Dr Gloria N. Okpala</b>	Degree/Department	PhD (Environmental Microbiology)/Microbiology
		UNN website URL	
		Google Scholar	<a href="https://scholar.google.com/citations?hl=en&amp;user=AxeN_a4AAAAJ">https://scholar.google.com/citations?hl=en&amp;user=AxeN_a4AAAAJ</a>
		ResearchGate	<a href="https://www.researchgate.net/profile/Gloria-Okpala">https://www.researchgate.net/profile/Gloria-Okpala</a>
6.	<b>Dr Uchenna Oyeagu</b>	Degree/Department	PhD (Environmental Microbiology)/Southeast Zonal Biotechnology Centre/Microbiology.
		UNN website URL	<a href="https://staffprofile.unn.edu.ng/profile/4587">https://staffprofile.unn.edu.ng/profile/4587</a>
		Google Scholar	
		ResearchGate	<a href="https://www.researchgate.net/profile/Oyeagu-Uchenna-2">https://www.researchgate.net/profile/Oyeagu-Uchenna-2</a>
7.	<b>Prof. Nkechinyere O. Nweze</b>	Degree/Department	PhD (Botany)/Plant Science and Biotechnology
		UNN website URL	<a href="https://staffprofile.unn.edu.ng/profile/2057">https://staffprofile.unn.edu.ng/profile/2057</a>
		Google Scholar	<a href="https://scholar.google.com/citations?user=iFwhHd8AAAAJ&amp;hl=en">https://scholar.google.com/citations?user=iFwhHd8AAAAJ&amp;hl=en</a>
		ResearchGate	<a href="https://www.researchgate.net/profile/Nkechinyere-Nweze">https://www.researchgate.net/profile/Nkechinyere-Nweze</a>
8.	<b>Dr Austin C. Okeke</b>	Degree/Department	PhD (Theatre and Film Studies)/Theatre and Film Studies
		UNN website URL	<a href="https://staffprofile.unn.edu.ng/profile/1182">https://staffprofile.unn.edu.ng/profile/1182</a>
		Google Scholar	<a href="https://scholar.google.com/citations?hl=en&amp;user=0MSjTKQAAAAJ">https://scholar.google.com/citations?hl=en&amp;user=0MSjTKQAAAAJ</a>
		ResearchGate	<a href="https://www.researchgate.net/scientific-contributions/Austin-Okeke-2172377564">https://www.researchgate.net/scientific-contributions/Austin-Okeke-2172377564</a>
9.	<b>Prof. Thaddeus C. Nzeadibe</b>	Degree/Department	PhD (Environmental Management)/Department of Geography
		UNN website URL	<a href="https://staffprofile.unn.edu.ng/profile/2094">https://staffprofile.unn.edu.ng/profile/2094</a>

		Google Scholar	<a href="https://scholar.google.com/citations?hl=en&amp;user=Jfs1ne0AAAAJ">https://scholar.google.com/citations?hl=en&amp;user=Jfs1ne0AAAAJ</a>
		ResearchGate	<a href="https://www.researchgate.net/profile/Chidi-Nzeadibe">https://www.researchgate.net/profile/Chidi-Nzeadibe</a>
10.	<b>Prof. Mabel Dimelu</b>	Degree/Department	PhD (Agricultural Extension)/Department of Agricultural Extension
		UNN website URL	<a href="https://staffprofile.unn.edu.ng/profile/359">https://staffprofile.unn.edu.ng/profile/359</a>
		Google Scholar	<a href="https://scholar.google.com/citations?hl=en&amp;user=l04cA-0AAAAJ">https://scholar.google.com/citations?hl=en&amp;user=l04cA-0AAAAJ</a>
		ResearchGate	
11.	<b>Prof. Anthonia I. Achike</b>	Degree/Department	PhD (Agricultural Economics)/Agricultural Economics
		UNN website URL	<a href="https://staffprofile.unn.edu.ng/profile/274">https://staffprofile.unn.edu.ng/profile/274</a>
		Google Scholar	<a href="https://scholar.google.com/citations?user=mmW376kAAAAJ">https://scholar.google.com/citations?user=mmW376kAAAAJ</a>
		ResearchGate	<a href="https://www.researchgate.net/profile/Anthonia-Achike">https://www.researchgate.net/profile/Anthonia-Achike</a>
12.	<b>Prof. Tochukwu N. Nwagu</b>	Degree/Department	PhD (Industrial Microbiology and Biotechnology)/Microbiology
		UNN website URL	<a href="https://staffprofile.unn.edu.ng/profile/529">https://staffprofile.unn.edu.ng/profile/529</a>
		Google Scholar	<a href="https://scholar.google.com/citations?hl=en&amp;user=f9lIGqAAAAJ">https://scholar.google.com/citations?hl=en&amp;user=f9lIGqAAAAJ</a>
		ResearchGate	<a href="https://www.researchgate.net/profile/Tochukwu-Nwagu">https://www.researchgate.net/profile/Tochukwu-Nwagu</a>
13.	<b>Dr Onyetugo C. Amadi</b>	Degree/Department	PhD (Industrial Microbiology and Biotechnology)/Microbiology
		UNN website URL	<a href="https://staffprofile.unn.edu.ng/profile/346">https://staffprofile.unn.edu.ng/profile/346</a>
		Google Scholar	<a href="https://scholar.google.com/citations?user=ek2tFEAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=ek2tFEAAAAJ&amp;hl=en</a>
		ResearchGate	<a href="https://www.researchgate.net/profile/Amadi-Onyetugo-Chioma">https://www.researchgate.net/profile/Amadi-Onyetugo-Chioma</a>
14.	<b>Dr Eunice N. Anaele</b>	Degree/Department	PhD (Medical Microbiology)/Southeast Zonal Biotechnology Centre/Microbiology.
		UNN website URL	<a href="https://staffprofile.unn.edu.ng/profile/4588">https://staffprofile.unn.edu.ng/profile/4588</a>
		Google Scholar	<a href="https://scholar.google.com/citations?user=O3CLW-AAAAAJ">https://scholar.google.com/citations?user=O3CLW-AAAAAJ</a>

		ResearchGate	<a href="https://www.researchgate.net/profile/Eunice-Anaele">https://www.researchgate.net/profile/Eunice-Anaele</a>
15.	<b>Dr Chinyere B. Chigor</b>	Degree/Department	PhD (Botany)/Plant Science and Biotechnology
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		Google Scholar	<a href="https://scholar.google.com/citations?hl=en&amp;user=47y_tAwAAAAJ">https://scholar.google.com/citations?hl=en&amp;user=47y_tAwAAAAJ</a>
		ResearchGate	<a href="https://www.researchgate.net/scientific-contributions/Chinyere-Blessing-Chigor-2180099565">https://www.researchgate.net/scientific-contributions/Chinyere-Blessing-Chigor-2180099565</a>
16.	<b>Mr. Chidiebele E.I. Nwankwo</b>	Degree/Department	MSc (Environmental Science)/Natural Science Unit
		UNN website URL	
		Google Scholar	<a href="https://scholar.google.com/citations?hl=en&amp;user=PzOTIpUAAAAJ">https://scholar.google.com/citations?hl=en&amp;user=PzOTIpUAAAAJ</a>
		ResearchGate	<a href="https://www.researchgate.net/profile/Chidiebele-Nwankwo">https://www.researchgate.net/profile/Chidiebele-Nwankwo</a>
17.	<b>Mrs. Adaustin I. Okeke</b>	Degree/Department	MSc (Occupational and Industrial Health Education)/Department of Human Kinetics and Health Education
		UNN website URL	
		Google Scholar	<a href="https://scholar.google.com/citations?hl=en&amp;user=JSMrVicAAAAJ">https://scholar.google.com/citations?hl=en&amp;user=JSMrVicAAAAJ</a>
		ResearchGate	<a href="https://www.researchgate.net/profile/Adaustin-Okeke">https://www.researchgate.net/profile/Adaustin-Okeke</a>
18.	<b>Mr. Justus A. Nweze</b>	Degree/Department	M.Sc (Medical Microbiology)/Department of Science Laboratory Technology
		UNN website URL	
		Google Scholar	<a href="https://scholar.google.com/citations?user=N-lw8yMAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=N-lw8yMAAAAJ&amp;hl=en</a>
		ResearchGate	<a href="https://www.researchgate.net/profile/Justus-Nweze">https://www.researchgate.net/profile/Justus-Nweze</a>
19.	<b>Dr Patrick N. Onyi</b>	Degree/Department	PhD (Pharmaceutical Microbiology and Biotechnology)/Department of Pharmaceutical Microbiology and Biotechnology
		UNN website URL	<a href="https://staffprofile.unn.edu.ng/profile/4040">https://staffprofile.unn.edu.ng/profile/4040</a>
		Google Scholar	
		ResearchGate	<a href="https://www.researchgate.net/profile/Patrick-Onyi">https://www.researchgate.net/profile/Patrick-Onyi</a>
20.	<b>Dr Simeon C. Enemuor</b>	Degree/Department	PhD (Environmental Microbiology)/Microbiology
		UNN website URL	<a href="https://staffprofile.unn.edu.ng/profile/483">https://staffprofile.unn.edu.ng/profile/483</a>
		Google Scholar	<a href="https://scholar.google.com/citations?user=sA-Le40AAAAJ&amp;hl=en">https://scholar.google.com/citations?user=sA-Le40AAAAJ&amp;hl=en</a>
		ResearchGate	<a href="https://www.researchgate.net/profile/Simeon-Enemuor">https://www.researchgate.net/profile/Simeon-Enemuor</a>



21.	<b>Dr Amelia N. Odo</b>	Degree/Department	PhD (Health Education)/Human Kinetics and Health Education
		UNN website URL	<a href="https://staffprofile.unn.edu.ng/profile/745">https://staffprofile.unn.edu.ng/profile/745</a>
		Google Scholar	<a href="https://scholar.google.com/citations?hl=en&amp;user=nlyyPCkAAAAJ">https://scholar.google.com/citations?hl=en&amp;user=nlyyPCkAAAAJ</a>
		ResearchGate	<a href="https://www.researchgate.net/profile/Amelia-Odo-2">https://www.researchgate.net/profile/Amelia-Odo-2</a>
22.	<b>Dr Chiemeka Onaebi</b>	Degree/Department	PhD (Plant Pathology)/ Plant Science and Biotechnology
		UNN website URL	
		Google Scholar	<a href="https://scholar.google.com/citations?hl=en&amp;user=NS694jUAAAAJ">https://scholar.google.com/citations?hl=en&amp;user=NS694jUAAAAJ</a>
		ResearchGate	<a href="https://www.researchgate.net/profile/Onaebi-Chiemeka">https://www.researchgate.net/profile/Onaebi-Chiemeka</a>
23.	<b>Dr Kenneth O. Ugwu</b>	Degree/Department	PhD (Medical Microbiology)/Natural Science Unit/Microbiology
		UNN website URL	
		Google Scholar	<a href="https://scholar.google.com/citations?user=L9L0iiMAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=L9L0iiMAAAAJ&amp;hl=en</a>
		ResearchGate	
24.	<b>Dr Godwin Ngwu</b>	Degree/Department	PhD (Zoology)/Zoology and Environmental Biology
		UNN website URL	
		Google Scholar	<a href="https://scholar.google.com/citations?hl=en&amp;user=s5enH2cAAAAJ">https://scholar.google.com/citations?hl=en&amp;user=s5enH2cAAAAJ</a>
		ResearchGate	<a href="https://www.researchgate.net/profile/Godwin-Ngwu">https://www.researchgate.net/profile/Godwin-Ngwu</a>
25.	<b>Dr Chiemezie S. Atama</b>	Degree/Department	PhD (Sociology)/Department of Sociology & Anthropology
		UNN website URL	<a href="https://staffprofile.unn.edu.ng/profile/146">https://staffprofile.unn.edu.ng/profile/146</a>
		Google Scholar	<a href="https://scholar.google.com/citations?hl=en&amp;user=8X0mEAYAAAAJ">https://scholar.google.com/citations?hl=en&amp;user=8X0mEAYAAAAJ</a>
		ResearchGate	<a href="https://www.researchgate.net/profile/Chiemezie-Atama">https://www.researchgate.net/profile/Chiemezie-Atama</a>
26.	<b>Dr Amaka H. Ononuju</b>	Degree/Department	PhD (Public Health Education)/Department of Human Kinetics and Health Education
		UNN website URL	
		Google Scholar	<a href="https://scholar.google.com/citations?hl=en&amp;user=qCtQIRYAAAAJ">https://scholar.google.com/citations?hl=en&amp;user=qCtQIRYAAAAJ</a>
		ResearchGate	<a href="https://www.researchgate.net/profile/Amaka-Ononuju-2">https://www.researchgate.net/profile/Amaka-Ononuju-2</a>
27.	<b>Dr Obianuju O. Nnabuife</b>	Degree/Department	PhD (Environmental Microbiology)/Microbiology
		UNN website URL	<a href="https://staffprofile.unn.edu.ng/profile/614">https://staffprofile.unn.edu.ng/profile/614</a>
		Google Scholar	
		ResearchGate	<a href="https://www.researchgate.net/profile/Obianuju-Nnabuife">https://www.researchgate.net/profile/Obianuju-Nnabuife</a>
28.	<b>Ms. Ijeoma Asilebo</b>	ResearchGate	<a href="https://www.researchgate.net/profile/Ijeoma-Asilebo">https://www.researchgate.net/profile/Ijeoma-Asilebo</a>

## 10 key publications (from 2019 till date):

1. Enebe, N.L., Chigor, C.B., Oibileke, K., Lawal, M.S. and Enebe, M.C. (2023). Biogas and syngas production from sewage sludge: A sustainable source of energy generation. *Methane*, 2023, 2(2), 192-217; <https://doi.org/10.3390/methane2020014>
2. Ibangha, I-A.I., Digwo, D.C., Ozochi, C.A., Enebe, M.C., Ateba, C.N. and Chigor, V.N. (2023). A meta-analysis on the distribution of pathogenic *Vibrio* species in water sources and wastewater in Africa. *Science of The Total Environment*, vol. 881, p. 163332. <https://doi.org/10.1016/j.scitotenv.2023.163332>
3. Chigor, C.B., Ibangha, I-A.I., Nweze, N.O., Onuora, V.C., Ozochi, C.A., Titilawo, Y., Enebe, M.C., Chernikova, T.N., Golyshin, P.N. and Chigor, V.N. (2022). Prevalence of integrons in multidrug-resistant *Escherichia coli* isolates from waters and vegetables in Nsukka and Enugu, Southeast Nigeria. *Environmental Science and Pollution Research*, 29: 60945–60952. <https://doi.org/10.1007/s11356-022-20254-6>
4. Erojikwe, I., Ezeugwu, C., Eze, J., Nnanna, N., Chigor, V. (2022). Breaking the Barriers of Health Problems and Political Dislocations Through Theatre for Development (TfD) Approaches: The Ulunya-Ovoko Example. In: Mbah, M.F., Leal Filho, W., Ajaps, S. (eds) *Indigenous Methodologies, Research and Practices for Sustainable Development*. World Sustainability Series. Springer, Cham. [https://doi.org/10.1007/978-3-031-12326-9\\_15](https://doi.org/10.1007/978-3-031-12326-9_15)
5. Digwo, D., Chidebelu, P., Ugwu, K., Adediji, A., Farkas, K. and Chigor, V. (2022). Prevalence and relative risk of rotavirus gastroenteritis in children under five years in Nigeria: A systematic review and meta-analysis. *Pathogens and Global Health* <https://doi.org/10.1080/20477724.2022.2043223>
6. Nwokolo, N.L et al (2021). The contributions of biotic lines of defence to improving plant disease suppression in soils: A review. *Rhizosphere* 19 (2021) 100372. <https://doi.org/10.1016/j.rhisph.2021.100372>.
7. Nweze, J.A. et al, (2021). Potentials of marine natural products against malaria, leishmaniasis, and trypanosomiasis parasites: a review of recent articles. *Infectious Diseases of Poverty*, (2021) 10:9 <https://doi.org/10.1186/s40249-021-00796-6>.
8. Chigor, V.N. et al. (2021). *Towards successful delivery of clean water by 2030 in Nigeria*. In Eghosa O. Ekhaton, Serval Miller and Etinosa Igbinosa (Eds). *Implementing the Sustainable Development Goals in Nigeria: Barriers, Prospects and Strategies*. London: Routledge. <https://www.taylorfrancis.com/chapters/edit/10.4324/9781003133469-9/>
9. Jaja, I.F., Jaja, C-J. I., Chigor, V.N., Anyanwu, M.U., Maduabuchi, E.K., Oguttu, J.W. and Green, E. (2020). Antimicrobial Resistance Phenotype of *Staphylococcus aureus* and *Escherichia coli* Isolates Obtained from Meat in the Formal and Informal Sectors in South Africa. *BioMed Research International*, 2020, Article ID 3979482, 11 pages. <https://doi.org/10.1155/2020/3979482>.
10. Chigor, V., Ibangha, I-A., Chigor, C. and Titilawo, Y. (2020). Treated wastewater used in fresh produce irrigation in Nsukka, Southeast Nigeria is a reservoir of enterotoxigenic and multidrug-resistant *Escherichia coli*. *Heliyon* 6 (2020) e03780. <https://doi.org/10.1016/j.heliyon.2020.e03780>.

## FACULTY OF BUSINESS ADMINISTRATION

### 25. Monetary and Fiscal Policy Research Group

#### Main research focus and other areas of research interest of the RG:

- Contribution to policy through well-thought-out and strategic research output.
- Training and development of upcoming researchers through deliberate research activities and programmes.
- Contributing to the visibility of the University through research outputs of high quality.
- Providing a veritable platform for pursuit of research grants at both local and international levels.
- Carrying out other functions that may be relevant to the core mandate of acting as a research focused and driven group.

#### Title of most recent research project:

Onwumere, J.U.J, Ebere Ume Kalu and Imo Godwin Ibe (2022) Synthetical Evaluation of the Evolution of Crypto and Digital Currency in Global Payment Platforms JOURNAL BANKING THE CHARTERED INSTITUTE OF BANKERS OF NIGERIA Vol. 10 No. 1. June 2022 ISSN 1597

**Other current or completed research projects:** Recently got a Research Collaboration with the Chartered Institute of Bankers of Nigeria and the take-off year is 2023.

**Name of the coordinator:** Professor Josaphat U. J Onwumere

**UNN email address of the RG:** [monetary.fiscalpolicygroup@unn.edu.ng](mailto:monetary.fiscalpolicygroup@unn.edu.ng)

**UNN email address of the coordinator:** [josaphat.onwumere@unn.edu.ng](mailto:josaphat.onwumere@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/monetary-and-fiscal-policy-research-group/>

**Phone number of the RG:** (NA)

**Phone number of the coordinator:** 08033223250

**Base faculty/institute/center of the RG:** Business Administration

**Department of the coordinator:** Banking and Finance

#### List and brief profiles of members

##### • PROFESSOR J.U.J ONWUMERE

Professor Josaphat U. J. Onwumere, PhD, FCISN, CMC, FIMC, FIAS, FAMSSRN, FUNNBS, HCIB is an Economist, Banking/Finance expert and Strategist. He is a Professor of Banking/Finance and Economic Development at the University of Nigeria, Nsukka (Enugu Campus). He was Head of Department of Banking and Finance, Associate Dean of the Faculty of Business Administration; and Dean, Faculty of Business Administration in the University. He has banking experience spanning over twelve years at management level in the Nigerian Banking industry. He is a versatile researcher with over one hundred and forty publications which include books, chapters in books, and several articles in reputable local and high impact international journals. Professor

Onwumere has supervised many postgraduate works (Postgraduate diplomas, Masters and Doctorates). He has consulted for governments and reputed local and international organizations. He is a Patron of the Enugu State Chapter of the Chartered Institute of Bankers of Nigeria (CIBN). He is a member of the CIBN Research Committee. He is also the Chairman of Editorial Board of CIBN's Journal of Banking. Professor Onwumere is the Coordinator of Monetary and Fiscal Policies Research Group at the University of Nigeria. He is an External Examiner and Assessor to many Universities. He was the 115th Inaugural Lecturer of the University of Nigeria, Nsukka. His lecture was titled – Financing Nigeria for Economic Development: Cornucopia/Pandora's Box? Professor Onwumere is currently the Director, UNN Business School, University of Nigeria, Enugu Campus.

- **DR. CHINWE OKOYEZU**

Chinwe R. Okoyezu is an Associate Professor in the department of Banking and Finance, Faculty of Business Administration, University of Nigeria, Enugu Campus. She holds a Doctor of Philosophy Degree in Banking and Finance. Chinwe possesses outstanding communication, classroom management and presentation skills. She also has proven excellence in the development of strong rapport with students, colleagues, and administrators. In the course of her career, Chinwe has taught and supervised students at undergraduate and postgraduate levels within and outside University of Nigeria, Enugu Campus. Chinwe is actively into research. Her research interest transverses financial stability and sustainable finance. She has enviable research outputs in both national and international Journals. Chinwe reviews for several international Journals. She is very proficient in the use of information and communication technology (ICT) in teaching. She is currently using e-learning platform to teach in many distance learning platforms. Author of over 55 scholarly articles in international and national Journals. Chapters in books, monograph, and conference proceedings.

- **GODWIN IMO IBE, PHD**

Dr Godwin Imo Ibe currently a Senior lecturer in the Department of Banking and Finance, Faculty of Business Administration, University of Nigeria. Dr Ibe has a Ph.D in Banking and Finance), M.Sc (Banking and Finance) and B.Sc (Accountancy). He is an Associate Member of the Chartered Institute of Banker of Nigeria (ACIB). Dr Ibe has been supporting the Nigeria Governors' Forum State Fiscal Transparency Accountability and Sustainability (SFTAS) Technical Support Project as part of the team that have been supporting the Nigeria Governors' Forum (NGF) Help Desk Data of the 36 States of the Federation, 2018-2023 States Governments Budgets as well as supporting the 36 States of the Federation in Budget Performance Reporting. Specifically leading the Abia, Enugu, Bayelsa, Ekiti and Zamfara State budget officers in preparing, 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> 2021 Budget Performance reports and leading the Abia, Enugu, Bayelsa, Ekiti and Zamfara State budget officers in preparing, 2021 and 2022 budgets. Dr Ibe had undertaken short term consultancy assignments with USAID/DAI States2States Technical Support Project where he led the team that have been supporting the 6 States (Akwa Ibom, Adamawa, Bauchi, Ebonyi, Gombe and Sokoto States) in Budget Preparation and Budget Performance Reporting. Also, I had participated in preparing Medium Term Sector Strategy (MTSS) in Bauchi State in 2022. Also, Dr Ibe has worked for GIZ/European Union in performing Public Financial Management activities. Dr Ibe is currently an

Executive Board Member of the University of Nigeria Staff Microfinance Bank (UNNSMFB).

- **DR EBERE UME KALU**

Ebere Ume Kalu is a Senior Lecturer in the Department of Banking and Finance with the University of Nigeria, Nsukka. He holds a parallel appointment in the University of Nigeria, Centre for Distance and e-Learning (CDeL). He is in charge of content and facilitation and also functions as the Programme Officer for the UNN-CDEL online Master of Business Administration (MBA) programme. He holds a PhD with Distinction in Banking and Finance from University of Nigeria, Nsukka and is a Fellow (FCIB) of the Chartered Institute of Bankers of Nigeria, A full member (*MNIM*) of Nigerian Institute of Management (Chartered), An Associate Member (ACIA) of Chartered Institute of Administration and Chartered Institute of Taxation (ACTI). He is a teacher with Grade A certification by the Teachers Registration Council of Nigeria (TRCN) and a research consultant. His areas of specialisation include financial analyses, financial econometrics, financial economics, banking systems and processes, corporate financial management and services and allied areas. He is also an examiner for the Chartered Institute of Bankers of Nigeria. Dr Kalu has over fifty (50) publications in his area of specialty in both local and international journals. He is also a reviewer for several impact factor journals and acts an academic editor for three international journals.

- **DR ANGELA UJUNWA**

Dr. (Mrs) Angela Ujunwa is a lecturer in the Department of Banking and Finance, Faculty of Business Administration, University of Nigeria, Enugu Campus. She holds a Bachelors degree with First Class Honours, and Doctoral Degree with distinction in Banking and Finance, University of Nigeria. She is a member of the Institute of chartered accountants of Nigeria (ICAN), and currently serves as an ICAN examination invigilator and internal examination assessor. She is decorated with so many academic awards which include Department of Banking and Finance Certificate of Merit, Zenith Bank International Academic Award, Nigerian Deposit Insurance Academic Prize, Nigerian – American Merchant Bank Academic Award as the best graduating student in the Department of Banking and Finance for 2007/2008 academic session, and Sir Odimegwu Ojukwu Memorial Prize Award as the best graduating student in the Faculty of Business Administration for 2007/2008 academic session. Angela Ujunwa has remarkable publications in top ranked international journals. Her research interest transverses financial innovation, business analytics, public finance and taxation, and political economics.

- **DR NNENNA NWONYE**

Nnenna Georgina Nwonye, Ph.D is a lecturer in the Department of Banking and Finance, University of Nigeria, Enugu Campus. An economist and financial analyst, she has her first degree in Economics from Anambra State University of Science and Technology, Awka and an MBA and Ph.D in Finance from University of Nigeria, Enugu Campus. She has major interest in research and her area of research interest are in economic growth and development, monetary and fiscal policy, growth of micro, small and medium enterprises, international finance among others. She is a member of professional bodies. She is married with 5 children.

- DR. CHINYERE ONYEJIAKU PhD, AMNIM, FAMSSRN is an Accountant, Educationist and Management expert. She is a lecturer 1 in the Department of Management, Faculty of Business Administration at University of Nigeria, Enugu Campus. She obtained a BSc degree in Accountancy from Nnamdi Azikiwe University, Awka and B.Ed degree in Management/Economics from Enugu State University of Science and Technology, Enugu. Her Masters degree (MBA) and Ph.D degree were obtained in Management at the University of Nigeria, Nsukka, specializing in Human Resource Management. She is a member of Monetary and Fiscal Policies Research Group at the University of Nigeria. She has consulting and research focus on Human Capital Management in Private and Public Sector organizations and globalization.
- **DR CHINWE OLELEWE:** Chinwe Olelewe read Banking and finance at her undergraduate level and graduated with a First Class Honours; carting away so many prizes at the graduation ceremony. She also holds MSc and PhD in Banking and Finance from the University of Nigeria, Nsukka. Dr Olelewe hails from Ezihinitte-Mbaise L.G.A in Imo state. She is an Associate member of the Institute of Chartered Accountants of Nigeria (ICAN) and also a member of Chartered Institute of Bankers of Nigeria (CIBN).

#### Members google scholar citation links, UNN web and research gate

- Prof J U J Onwumere  
[https://scholar.google.com/scholar?hl=en&as\\_sdt=0%2C5&q=onwumere+juj&oq=onwumere](https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=onwumere+juj&oq=onwumere)  
<https://staffprofile.unn.edu.ng/profile/1165>  
<https://www.researchgate.net/profile/Josaphat-Onwumere>
- Dr Chinwe Okoyeuzu  
[https://scholar.google.com/scholar?hl=en&as\\_sdt=0%2C5&q=Chinwe+Okoyeuzu&btnG=](https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=Chinwe+Okoyeuzu&btnG=)  
<https://staffprofile.unn.edu.ng/profile/4633>  
<https://www.researchgate.net/profile/Chinwe-Okoyeuzu>
- Dr Godwin Imo Ibe  
[https://scholar.google.com/scholar?hl=en&as\\_sdt=0%2C5&q=godwin+imo+ibe&btnG=&oq=Godwin+Imo+](https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=godwin+imo+ibe&btnG=&oq=Godwin+Imo+)  
<https://staffprofile.unn.edu.ng/profile/4778>  
<https://www.researchgate.net/profile/Imo-Ibe>
- Dr Ebere Ume Kalu  
[https://scholar.google.com/scholar?hl=en&as\\_sdt=0%2C5&q=kalu+ebere+ume&btnG=&oq=Ebere+](https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=kalu+ebere+ume&btnG=&oq=Ebere+)  
<https://staffprofile.unn.edu.ng/profile/4776>  
[https://www.researchgate.net/profile/Ebere-Kalu?ev=hdr\\_xprf](https://www.researchgate.net/profile/Ebere-Kalu?ev=hdr_xprf)
- Dr Angela Ujunwa  
[https://scholar.google.com/scholar?hl=en&as\\_sdt=0%2C5&q=Angela+Ujunwa&btnG=](https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=Angela+Ujunwa&btnG=)  
<https://staffprofile.unn.edu.ng/profile/2170>  
<https://www.researchgate.net/profile/Angela-Ujunwa>

- Dr Nnenna Nwonye  
[https://scholar.google.com/scholar?hl=en&as\\_sdt=0%2C5&q=nnenna+nwonye&btnG=](https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=nnenna+nwonye&btnG=)  
<https://staffprofile.unn.edu.ng/profile/4777>  
<https://www.researchgate.net/profile/Nnenna-Nwonye>
- Dr Chinyere Onyejiaku  
[https://scholar.google.com/scholar?hl=en&as\\_sdt=0%2C5&q=chinyere+onyejiaku&btnG=&oq=chinyere+onyejiak](https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=chinyere+onyejiaku&btnG=&oq=chinyere+onyejiak)  
<https://staffprofile.unn.edu.ng/profile/4773>  
<https://www.researchgate.net/profile/Chinyere-Onyejiaku>
- Dr Chinwe Olelewe  
[https://scholar.google.com/scholar?hl=en&as\\_sdt=0%2C5&q=chinwe+olelewe&btnG=](https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=chinwe+olelewe&btnG=)  
<https://staffprofile.unn.edu.ng/profile/2161>  
<https://www.researchgate.net/profile/Chinwe-Olelewe/research>

### Key publications of the RG from 2019 till date

- Onwumere, J.U.J, Ebere Ume Kalu and Imo Godwin Ibe      Synthetical  
 Evaluation of the Evolution of Crypto and Digital Currency in Global Payment  
 Platforms THE CHARTERED INSTITUTE OF BANKERS OF NIGERIA Vol. 10 No.  
 1. June 2022 ISSN 1597
- Ebere Ume Kalu and Imo Godwin Ibe      Macroeconomic Variables and Bitcoin  
 Volatility: A Direct and Reverse Causation Investigation JOURNAL      BANKING  
 Journal Publication2022      THE CHARTERED INSTITUTE OF BANKERS OF  
 NIGERIA Vol. 10 No. 1. June 2022 ISSN 1597
- Nwafor, F.U., Kalu, E.U., Arize, A.C. and Onwumere, J.U.J. "Spatiotemporal  
 analysis of energy consumption and financial development in African OPEC  
 countries", International Journal of Energy Sector Management, 2022      Vol.  
 ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/IJESM-03-2022-0010>
- Ebere Ume Kalu, Florence U. Nwafor, Augustine C. Arize, Leo-Paul Dana, John  
 Malindretos, Josaphat U. Onwumere      Green or gas in OPEC member  
 countries: a linear and asymmetric investigation of energy–growth nexus      OPEC  
 Energy Review (Wiley)2020 44: 451-485. <https://doi.org/10.1111/opec.12190>
- Ebere Ume Kalu, Pius Bala Daniel, Uchenna Florence Nwafor, Chinwe R.  
 Okoyeuzu, Okoro E.U. Okoro, Elizabeth U. Okechukwu.      Relating energy  
 consumption to real sector value added and growth in a developing economy: A  
 case of Nigeria. International Journal of Energy Sector Management (Emerald)  
 1.Emerging Sources Citation Index (ESCI) 201. Vol. 13 Issue: 1, pp.166-182, DOI:  
<https://doi.org/10.1108/IJESM-02-2018-0007>

## 26. Researchers on Contemporary Issues in The Business Circle

**Focus:** To address business environmental challenges emanating from the complexity of today's business world through strategic critical thinking and implementation of an applicable solution to issues

**Areas of research interest:** Business trends, Environment, Culture, Policies, and Regulations

**Title of most recent research project:** Intrapreneurial competencies and firms' growth: The mediating effect of perceived organizational support.

### Current and Previous Research Projects:

- Identity Reconstruction to foster Socio-cultural Integration of Nigerian Generation Z youths.
- Financial Inclusion Ecosystem and Economic Sustainability of Rural Women in Nigeria.
- Institutional base research, titled "Management Challenge of Sustaining Competitive Advantage through Innovation in a business environment"
- Research Partner on RISE (Research on Improving Systems of Education) a new multi-country research programme that aims to build an understanding of education systems and how they can be transformed to accelerate learning for all.
- A concluded Tetfund sponsored and presented institutional-based Research titled "The Impact of Social Entrepreneurship on Sustainability of Business Development in Nigeria".
- An institutional based research, titled "Weberian revisit of the link between social entrepreneurship, treats and Christianity in South Eastern Nigeria". (approved and concluded)
- Room 10 under the UNN Room 17-X Project : Reduce income inequality within and among countries

**Name of the Coordinator:** Professor (Mrs) Ann Ogbo

**UNN email address of the coordinator:** [ann.ogbo@unn.edu.ng/](mailto:ann.ogbo@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/researchers-on-contemporary-issues-in-business-circle/>

**UNN webpage of RG:** <https://www.unn.edu.ng/researchers-for-contemporary-issues-in-the-business-circle-rcibc/>

**Phone number of the RG:** N/A

**Phone number of the coordinator:** 08036686027

**Base Faculty of the RG:** Faculty of Business Administration

**Department of the coordinator:** Management

### List and brief profiles of members:

- Dr. Helen Agu: Lecturer 1, International & Comparative Law, University of Nigeria. [Helen.agu@unn.edu.ng](mailto:Helen.agu@unn.edu.ng)



[https://scholar.google.com/scholar?hl=en&as\\_sdt=0%2C5&q=helen+uchenna+agu&og=uchenna](https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=helen+uchenna+agu&og=uchenna)

<https://researchgate.net/profile/Agu-helen-Uchenna>

- Mr. Josiah Ogbuka: Lecturer 2, The institute of maritime studies, University of Nigeria. [josiah.ogbuka@unn.edu.ng](mailto:josiah.ogbuka@unn.edu.ng)  
[https://scholar.google.com/scholar?hl=en&as\\_sdt=0%2C5&q=josiah+ogbuka&btnG=https://researchgate.net/profile/Josiah-Ogbuka-3](https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=josiah+ogbuka&btnG=https://researchgate.net/profile/Josiah-Ogbuka-3)
  - Dr. Lovelyn Ekeowa: Lecturer 1, Department of Management. [lovelyn.kelvin-iloafu@unn.edu.ng](mailto:lovelyn.kelvin-iloafu@unn.edu.ng)  
[https://scholar.google.com/scholar?hl=en&as\\_sdt=0%2C5&q=lovelyn+kelvin+iloafu&btnG=https://researchgate.net/profile/Lovlyn-Kelvin-iloafu](https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=lovelyn+kelvin+iloafu&btnG=https://researchgate.net/profile/Lovlyn-Kelvin-iloafu)
  - Dr. Emeka Onwe: Researcher, Management Department, University of Nigeria. [chukwuemeka.onwe.pg002459@unn.edu.com](mailto:chukwuemeka.onwe.pg002459@unn.edu.com)  
<https://researchgate.net/profile/Chukwuemeka-Onwe>
  - Dr. Henry Okwo: Researcher, Management Department, University of Nigeria. [Henry.okwo.pg81372@unn.edu.ng](mailto:Henry.okwo.pg81372@unn.edu.ng)  
[https://scholar.google.com/scholar?hl=en&as\\_sdt=0%2C5&q=henry+okwo&btnG=https://researchgate.net/profile/Henry-Okwo](https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=henry+okwo&btnG=https://researchgate.net/profile/Henry-Okwo)
  - Mr. Lawrence Okereke: Assistant Lecturer, Department of Management, Faculty of Business Administration, University of Nigeria Enugu Campus. [Lawrence.okereke@unn.edu.ng](mailto:Lawrence.okereke@unn.edu.ng)  
<https://researchgate.net/profile/Lawrence-Okereke>
  - Dr. Mabel Nwekwo: Lecturer –Accountancy Department, University of Nigeria Enugu Campus. [ngozi.nwekwo@unn.edu.ng](mailto:ngozi.nwekwo@unn.edu.ng)  
[https://scholar.google.com/scholar?hl=en&as\\_sdt=0%2C5&q=ngozi+nwekwo&btnG=https://researchgate.net/profile/Ngozi-Nwekwo](https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=ngozi+nwekwo&btnG=https://researchgate.net/profile/Ngozi-Nwekwo)
  - Mr. Sylvester Ilo: Lecturer, Department of Management, University of Nigeria, Enugu Campus. [Sylvester.ilo@unn.edu.ng](mailto:Sylvester.ilo@unn.edu.ng)  
[https://scholar.google.co/citations?view\\_op=search\\_authors&mauthors=Sylvester+ilo&hl=en&oi=ao](https://scholar.google.co/citations?view_op=search_authors&mauthors=Sylvester+ilo&hl=en&oi=ao)  
<https://researchgate.net/profile/Sylvester-Ilo>
  - Mrs. Chinelo Ugwu: Researcher, Management Department, University of Nigeria. [Chinelougwu2006@gmail.com](mailto:Chinelougwu2006@gmail.com)  
<https://scholar.google.com/citations?hl=en&user=mgjkQSsAAAAJ>  
<https://researchgate.net/profile/Chinelo-Ugwu>
  - Mr. Nnajofofor Eneh: Principal System Analyst, Faculty of Business Administration, University of Nigeria. [ennajofofor@gmail.com](mailto:ennajofofor@gmail.com)  
<https://scholar.google.com/citations?user=yyJ4UAUAAAAJ&hl=en&oi=ao>  
<https://researchgate.net/profile/Nnajofofor-Eneh-Ugwu>
- Google scholar and Research gate profiles:**  
<https://scholar.google.com/citations?hl=en&user=Dkb5gZIAAAJ>  
<https://researchgate.net/profile/Ann-Ogbo>

### 10 key publications:

- Henry Okwor, Anastasia Ogbo, Vitalis Ndu. Chukwuemeka Christian Onwe (2022) Intrapreneurial competencies and firms' growth: The mediating effect of perceived

organizational support. *International Entrepreneurial Review*. 8(2), 51-66. <https://doi.org/10.15678/IER.2022.0802.0>

- Edigbo A, Ogbo A. I., Onwe C, Igwe A, Okafor L., (2021) Mediating Role of Entrepreneurship Alertness Between Prior Entrepreneurship Exposures and Entrepreneurial Intentions. *Entrepreneurship Business and Economics Review*, 9(4), 67-84. <https://doi.org/10.15678/EBER.2021.090405>
- Igwe, A., Ogbo, A. I., Agbaeze, E., Abugu, J., Ezenwakwelu, C., & Okwo, H. (2020). Self-efficacy and subjective norms as moderators in the networking competence – social entrepreneurial intentions link. *SAGE Open*, 3(10), 1–16. <https://doi.org/10.1177/2158244020934878>
- Ogbo, A. I., Okechukwu, I., & Ukpere, W. I. (2012). Managing innovations in telecommunications industry in Nigeria. *African Journal of Business Management*, 6(25), 7469–7477. <https://doi.org/10.5897/AJBM12.921>
- Chukwuemeka Christian Onwe, Ogbo, A. I., Abu Amodu Ameh (2020). Entrepreneurial orientation and small firm performance: The moderating role of environmental hostility. *Entrepreneurial Business and Economics Review*, 8(4), 67-84. <https://doi.org/10.15678/EBER.2020.080404>
- Onodugo C, Onodugo I, Ogbo A. I, Okwo H & Ogbaekirigwe C. (2021). Moderating role of social capital on the effect of financial behaviour on financial inclusion. *Problems and Perspectives in Management*, 19(3). 502- 512. [http://dx.doi.org/10.21511/ppm.19\(3\).2021.41](http://dx.doi.org/10.21511/ppm.19(3).2021.41)
- Ogbo, A. I., Ugwu, C. C., Ugbam, C. O., & Chukwu, B. I. (2016). Participative management: concept and application in consumer goods Companies. *Risk Governance and Control: Financial Markets and Institutions*, 6(4), 223–226. <https://doi.org/10.22495/rcgv6i4c1art12>
- Ogbo A.I., Jesse Ezeobi, Ugbam,C., Obinna, Okeke, & Kalu, Ebere Ume (2019). The management challenge of sustaining competitive advantage through innovation in Nigerian business environment. *Journal of Economics, Management and Trade*, 24(1), 1–13. <https://doi.org/10.9734/JEMT/2019/v24i13015337>
- Ogbo, A. I., Anthony Igwe, Jesse Ezeobi, Nwanneka Modebe, & Kalu, Ebere Ume (2019). The impact of social entrepreneurship on the sustainability of selected small and medium enterprises in Nigeria. *Advances in Research*, 19(2), 1–15. <https://doi.org/10.9734/AIR/2019/v19i230116>
- Ogbo, A. I., Ugwu, C. C., Enemu, J., & Ukpere, I. W. (2019). E-commerce as a strategy for sustainable value creation among selected traditional open market retailers in Enugu State, Nigeria. *Sustainability*, 11(16),1-18. <https://doi.org/10.3390/su11164360>

## FACULTY OF EDUCATION

### 27. Health Education and Promotion Research Group (Formerly Substance Abuse Prevention Research Group)

**Main Research Focus of the RG:** The research group which started as Substance Abuse Prevention Research Group has expanded its scope to include other areas of research interests of its members. The focus of the research group is generally on disease prevention as well as promoting physical, mental, emotional and mental wellbeing of individuals and communities through appropriate health education approaches.

**Areas of research interests:**

- Health programme interventions and effectiveness
- Trends in health care, health education, and disease prevention in communities
- Substance abuse prevention and control
- Barriers and strategies for building capacity of communities for healthy living
- Advocacy strategies for target audiences
- Healthy lifestyles (nutrition, physical exercise, etc)
- School health education
- Patients' education,
- Emotional, mental and social health

**Title of most recent research project:** Knowledge of Breast Cancer, Willingness and Barriers to Mammography Screening Among Rural Women in Enugu State, Nigeria.

**Current research projects:**

- Dynamics of COVID-19 impact on acquisition and use of HIV/STBB prevention services by female sex workers in Nigeria. Principal Investigator.
- Knowledge, beliefs and screening for cervical cancer among Women of a Faith Based Organisation in Enugu State. Tertiary Education Trust Fund (TETFund) Institution Based Research (IBR) grant -December, 2019 to September, 2020. (TETFUND/DR&D/CE/UNI/NSUKKA/RP/VOL.I.) Co Principal Investigator
- Community Involvement in Prevention of Drug Abuse in Enugu North senatorial zone. Tertiary Education Trust Fund (TETFund) Institution Based Research (IBR) grant - August 2018 to February 2020. (TETFUND/DESS/UNN/NSUKKA/RP/VOL.X) Principal Investigator.

**Name of the Coordinator:** Prof. Evelyn N. Nwagu

**UNN email address of the RG:** [heprg@unn.edu.ng](mailto:heprg@unn.edu.ng)

**UNN email address of the coordinator:** [evelyn.nwagu@unn.edu.ng](mailto:evelyn.nwagu@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/substance-abuse-prevention-research-group/>

**Phone number of the RG:** 08053953858

**Phone number of the coordinator:** 08139707903

**Base Faculty/Institute/Center of the RG:** Faculty of Education

**Department of the Coordinator:** Department of Health and Physical Education

## Headshot of the coordinator



## List, Profile and CV of members

- Prof. Evelyn Nwagu is a Lecturer in the Department of Human Kinetics and Health Education, University of Nigeria Nsukka. Formerly known as Department of Health and Physical Education. She graduated with First Class Honours Degree in Health Education. She has a Ph.D and M.Ed in Public Health Education. She is also a Register Nurse Midwife. Her research interests include, disease prevention and health promotion. She has conducted many studies in this area and has published many research articles.

Google Scholar: <https://scholar.google.com/citations?user=tkmLI9sAAAAJ&hl=en>  
Researchgate: <https://www.researchgate.net/profile/Evelyn-Nwagu>

Curriculum

vitae:

[https://docs.google.com/document/d/1YB1zKQYCisvLc0S0ZUrre15jHU22ohdg/edit?usp=share\\_link&oid=116299835199187982052&rtpof=true&sd=true](https://docs.google.com/document/d/1YB1zKQYCisvLc0S0ZUrre15jHU22ohdg/edit?usp=share_link&oid=116299835199187982052&rtpof=true&sd=true)

- Dr. Amelia Ngozi Odo is a Senior Lecturer in the Department of Human Kinetics and Health Education, University of Nigeria, Nsukka, Nigeria. She is a citizen of Nigeria. She received her Ph.D. and Masters in Public Health Education, B.Sc in Health Education, and Diplomas in Public Health Nursing, Midwifery, and General Nursing. Dr. Amelia was a post-doctoral researcher at the Department of Anthropology, Michigan State University-MSU (2019-2020). Her primary research interests are in sexual and reproductive health including maternal and child health, nutrition and public health, infectious diseases prevention and control, and gender issues. She has attended some national and international conferences/workshops and published some articles in reputable journals.

GoogleScholar: <https://scholar.google.com/citations?user=nlyyPCkAAAAJ&hl=en>  
Researchgate: <https://www.researchgate.net/profile/Amelia-Odo-2>

Curriculum vitae:

<https://docs.google.com/document/d/1hhOmWOPypkVxgj00Wb-lsfT5vo-Ra7xz/edit#>

- Samuel Ifeanyi Chris DIBIA, (PhD) is a senior lecturer in the department of Human Kinetics and Health Education, University of Nigeria Nsukka. Samuel is a Public Health Educator and Researcher with research interests in public health education, school health education, waste management, substance abuse prevention, diabetes care, and climate change education. He has attended some national and international conferences/workshops and published some articles in reputable journals.

Google

Scholar:

[https://scholar.google.com/citations?hl=en&user=huESqf8AAAAJ&view\\_op=list\\_works&gmla=AJsN-](https://scholar.google.com/citations?hl=en&user=huESqf8AAAAJ&view_op=list_works&gmla=AJsN-)

F6GYWAc9ZNPXKbInkY7CFdEpU2SSVY16GCOPLA971hJy7aKdksNqUcRjUK  
Q7qeE-10xNXoVqUT003Ui VyBnPmleJXv8 kJYXX7oHa7BRO1J0Ln6iM

Researchgate: <https://www.researchgate.net/profile/Samuel-Dibia-2>

Curriculum vitae:

<https://docs.google.com/document/d/1wgoxduoac9Uo94zLGTNSWps2kVqNiuem/edit?usp=drivesdk&oid=115886459167475689467&rtpof=true&sd=true>

- Dr. Lawreta Ijeoma Abugu joined the services of the University of Nigeria, Nsukka in 2016 as a Graduate Assistant and is currently a Lecturer I in the Department of Human Kinetics and Health Education. She is also a professional Nurse/Midwife/Public Health Educator. She had her nursing and midwifery certificates from School of Nursing Makurdi, Benue State and School of Midwifery, Bishop Shanahan Hospital, Nsukka all in Nigeria in 1996 and 2000 respectively. Due to her quest for higher education, she enrolled for a bachelor's degree in University of Nigeria, Nsukka and obtained a BSc. (Health Education-First Class Honours) in 2010; M.Ed (Public Health Education) in 2016; and Ph.D (Public Health Education) in 2021 all from the University of Nigeria. Lawreta teaches health education courses and research at both undergraduate and graduate levels and has supervised several undergraduate research projects. She has published twenty research articles in both local and international journals. Her research interests include infection control, disease prevention and health promotion, reproductive health, teaching and learning in health, and implementation science. Her hobbies include meditation, counselling and giving health talks to people. She lives in Nsukka, Enugu State, Nigeria and is married with children.

Google Scholar: <https://scholar.google.com/citations?hl=en&user=t2NF-GcAAAAJ>

Researchgate: <https://www.researchgate.net/profile/Lawreta-Abugu>

Curriculum vitae:

<https://docs.google.com/document/d/1bWk22MgHZ21bh8fCe52C7OhmpnkoghLx/edit?usp=drivesdk&oid=116384303201767787432&rtpof=true&sd=true>

- Mrs. Adaustin Ifeoma Okeke. Department of Human Kinetics and Health Education, UNN. [adaustin.okeke@unn.edu.ng](mailto:adaustin.okeke@unn.edu.ng)

Mobile: 08061534247

I am a zestful, committed and determined person who has developed a mellow and responsible attitude to any task that I undertake, situation that I tackle or challenge that I am presented with. As a registered nurse, midwife, and master degree holder in occupational and industrial health education with fourteen years working experience as a registered nurse/midwife and six years working experience as a lecturer, I am very good at working with others to achieve targeted goal at set time with superlative skills. I have publications (6), conferences attended (6) and workshops attended (3).

Google

Scholar:

<https://scholar.google.com/citations?hl=en&user=JSMrVicAAAAJ>

Researchgate:

Curriculum vitae:

[https://drive.google.com/file/d/1a2CrByP7\\_KCCY5cKOaAeMGidxVI5zmZ7/view?usp=share link](https://drive.google.com/file/d/1a2CrByP7_KCCY5cKOaAeMGidxVI5zmZ7/view?usp=share_link)

### 10 key publications of the RG from 2019 till date:

- Abugu L.I., Nwagu, E. N., Okeke, A. I, & Odo, A. N. (2023). Knowledge of Breast Cancer, Willingness and Barriers to Mammography Screening Among Rural Women in Enugu State, Nigeria. *African Health Sciences*, In Print.
- Abugu L. I. and **Nwagu E. N.** (2021). Awareness, knowledge and screening for cervical cancer among women of a faith-based organization in Nigeria. *Pan African Medical Journal*, 39(200)Doi10.11604/pamj.2021.39.200.23761
- Nwagu, E. N. (2020). Transformative learning potentials of trainee health workers in Nsukka, Enugu State, Nigeria. *Global Journal of Transformative Education*, 2; 60 – 71. Available at <https://scholarworks.iu.edu/journals/index.php/gjte/article/view/27424/35796>
- Odo, A. N., Dibia, S. I. C., **Nwagu, E. N.** , Umoke., M-J, Umoke, P. C. I. (2020). Towards characterization of Female Genital Mutilation (FGM) in rural Nigeria. *African Health Sciences*, 20(4):1968 - 1978. <https://dx.doi.org/10.4314/ahs.v20i4.55>
- **Nwagu, E. N.**, Dibia, S. I. C. & Odo, A. N. (2020) Community readiness for drug abuse prevention in two rural communities in Enugu State, Nigeria. *Sage Open Nursing*. Online first published October 25, 2020. <https://journals.sagepub.com/doi/full/10.1177/2377960820963758>
- **Nwagu E. N.**, Abugu, L. I., Yohanna, W., Eze, D. N., Ononuju, A. H., Obayi, A. N. (2020) Behaviour change communication for control of tuberculosis by healthcare workers in DOTS facilities in Nigeria. *Pan African Medical Journal*, 36(306) <https://www.panafrican-med-journal.com/content/article/36/306/full/>
- Odo, A. N., Dibia, S. I. C., **Nwagu, E. N.** , Umoke., M-J, Umoke, P. C. I. (2020). Towards characterization of Female Genital Mutilation (FGM) in rural Nigeria. *African Health Sciences*, 20(4):1968 - 1978. <https://dx.doi.org/10.4314/ahs.v20i4.55>
- **Nwagu, E. N.**, Dibia, S. I. C. & Odo, A. N. (2020) Community readiness for drug abuse prevention in two rural communities in Enugu State, Nigeria. *Sage Open Nursing*. Online first published October 25, 2020. <https://journals.sagepub.com/doi/full/10.1177/2377960820963758>
- **Nwagu E. N.**, Abugu, L. I., Yohanna, W., Eze, D. N., Ononuju, A. H., Obayi, A. N. (2020) Behaviour change communication for control of tuberculosis by healthcare workers in DOTS facilities in Nigeria. *Pan African Medical Journal*, 36(306) <https://www.panafrican-med-journal.com/content/article/36/306/full/>
- Dibia, S. I. C., **Nwagu E. N.** & Odo A. N. (2020). Drug Use and Abuse Prevention Concerns in Rural Communities in Enugu State Nigeria. *Global Journal of Health Science*, 12 (2): 78 -89. Available at <http://www.ccsenet.org/journal/index.php/gjhs/article/view/0/41909>

## 28. Information Technology Application Group

**Main Research Focus:** The focus of this group is to research/teach the various information technology tools, software, systems, sources, services, resources and opportunities with the goal of improving abilities and skills in their application across disciplines.

### Title of the most recent research project

- Publication of Journal of Applied Information Science and Technology, Volume 13, Number 2, September 2020.
- Publication of Journal of Applied Information Science and Technology, Volume 14, Number 1, April 2021.
- Publication of Journal of Applied Information Science and Technology, Volume 14, Number 2, September 2021.
- Publication of Journal of Applied Information Science and Technology, Volume 15, Number 1 April, 2022.
- Publication of Journal of Applied Information Science and Technology, Volume 15, Number 2, September 2022.
- Publication of Journal of Applied Information Science and Technology, Volume 16, Number, April 2022.
- Summit of Authors Researchers Editors and Scholars **Achieving Excellence in Scholarly Communication**

**Name of the Coordinator:** Professor Charles Obiora Omekwu

**UNN Email Address of Research Group:** [itarg@unn.edu.ng](mailto:itarg@unn.edu.ng)

**UNN Email Address of the Coordinator:** [charles.omekwu@unn.edu.ng](mailto:charles.omekwu@unn.edu.ng)

**Current webpage of the Research Group:** [www.jaistonline.org](http://www.jaistonline.org)

**Phone number of the Research Group:** +2348067300869

**Phone number of Research Group:** +2348067300869

**Base Faculty of the Group:** Faculty of Education

**Department of the Coordinator:** Library and Information Science

**Headshot of the Coordinator**



### List and brief profiles of members (one paragraph per member)

- Professor Charles Obiora Omekwu is the Coordinator of the **Information Technology Application Research Group**. He served as the University Librarian of the University of Nigeria Nsukka, Enugu State (October 2, 2007-October 1, 2013), where he teaches and supervises both undergraduate and postgraduate students in the Department of Library and Information Science. He also examines

postgraduate theses within and outside Nigeria. He has examined over 35 doctoral fellows, 85 Master's degree candidates, and supervised successfully 11 Ph.Ds and over 20 other categories of postgraduate degrees. He has assessed over 26 candidates for elevation to the professorial ranks. He holds six degrees with a Ph.D in Library, Archival and Information Studies from the University of Ibadan, and LLB from the University of Lagos, Nigeria. He was the 2003 winner of the African Section paper presentation competition for the World Congress on Library and Information by the International Federation of Library Associations and Institutions, Berlin, Germany. His paper: ***African Culture and Library: The Information Technology Challenge*** published in ***The Electronic Journal, 24(2): 243-264*** received the Emerald Literatnetwork 2007 Highly Commended Award. He is currently the Editor-in- Chief of the ***Journal of Applied Information Science and Technology***. He has attended several workshops, seminars and conferences both locally and abroad. His research contribution to the literature of library and information science is multidisciplinary covering agriculture, law, information and digital technology. The University Library system which he headed has the capacity to seat 7, 500 users. Since joining the University of Nigeria, Professor Omekwu has been central to the evolution of a world class academic library and university in terms of digital technology application and access. His professional leadership of over 150 professional and para-professional staff has been acclaimed as truly outstanding for which ***Professor Benjamin C. Ozumba***, former ***Vice Chancellor of the University of Nigeria (2014-2019)***, calls him ***University Librarian Emeritus***. Over the years, Charles has emerged as one of African's leading multidisciplinary professional as Certified Librarian, Attorney at Law, Agricultural Extensionist, University Administrator, Editor, Mentor, Scholar, Researcher and highly-sought-after Conference Speaker. He has received several honours and awards both nationally and internationally. Some of his current research interests include: Library systems in cyberspace, cyberspace and crossroad considerations for the law, the emergence of the digital lawyer, the future electronic court system, etc. He has over 70 papers as book chapters, journals articles, conference proceedings, and seminar and workshop paper compendium.

[https://scholar.google.com/citations?user=ip2s\\_KMAAAAJ&hl=en](https://scholar.google.com/citations?user=ip2s_KMAAAAJ&hl=en)

Researchgate link: <https://www.researchgate.net/profile/Charles-Omekwu>

- **Idakwo Sunday Innocent** was born at Brigade in Nasarawa LGA of Kano State, Nigeria on 12th February, 1980. He began his academic pursuit in 1986 at Ollah Primary School, Kogi Nigeria. In the year 1981, he started his secondary education at Government Secondary School Ogodu, Ankpa LGA in Kogi state, Nigeria. Innocent started his University education in the year 2000 at Bayero University Kano where he obtained a diploma certificate in Library Science in the year 2002 with a credit (4.21). Later obtained his first degree in the same field and institution in the year 2006 with a second class upper division honors. Proceeded to UNN and obtained a Master's degree in Library and Information Science in the year



2018 and currently a PhD student of Library and Information Science in University of Nigeria Nsukka. Idakwo Sunday Innocent is a Librarian/Lecture 1 in Baze University library Abuja heading the Faculty of Environmental Sciences Library that he equally pioneered its establishment. He was the Pioneer Librarian (Coordinator) of Rhema University library Aba, Abia State - Nigeria between 2011 and 2012. He was the head of Salem University e-library Lokoja. Kogi State -Nigeria from 2013 till 2016. He teaches fresh university students the use of library right from the inception of his academic career. He is a certified member of Librarians' Registration Council of Nigeria, registered member of The Institute of Mass Communication and Information Management of Nigeria, registered member of Chartered Institute of Global Communication and Diplomacy. He has attended several workshops, seminars and conferences locally. He has 13 publications cutting across journal articles, book chapters, conference proceedings and a textbook. Some of his research interests include application of ICTs to library operations, research productivity, and collection development.

Scholarlink: <https://scholar.google.com/citations?hl=en&user=19FjnAEAAAJ>

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- **Brief Profile for Mrs. Ify Evangel Obim**

Mrs. Ify Evangel Obim is a Lecturer at the Department of Library and Information Science, University of Nigeria, Nsukka. She is currently a Ph.D. student of the same department and institution. She is a certified member of the Librarians Registration Council of Nigeria (LRCN). She won the 2020 Jean Lowrie Leadership Development Grant of USD 3, 000 awarded by International Association of School Librarianship (IASL) for been selected as the recipient of the award. Equally, she received a Fellowship Award by International Association for Social Science Information Service and Technology (IASSIST) in 2022. This award was to assist the recipient participate at the 2<sup>nd</sup> IASSIST Africa Regional Workshop. She is a member of International Federation of Library Associations and Institutions (IFLA), African Library & Information Associations & Institutions (AFLIA), International Association of School Librarianship (IASL), Nigerian Library Association (NLA), and to several other international and national academic bodies including the NLA IT Section where she's currently the Financial Secretary of the association. She teaches both undergraduate and postgraduate students of the university and has published five book chapters and several articles in reputable national and international journals. She is currently the Marketing Editor and Marketing Manager of the Journals: *Global Review of Library and Information Science (GRELIS)* and *Information Technology and Librarianship (ITL)*, a journal of NLA Information Technology Section respectively. She has attended many national and international research conferences. Her interest areas are in ICT, School Librarianship, Book Production and Publishing, Gender, Climate Literacy, Entrepreneurship, Information Literacy, Digital Education, Volunteerism and Audio-Visual Librarianship.

Google

Scholar

Citation

Link:

<https://scholar.google.com/citations?user=ZSMMFCUAAA&hl=en>

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Researchgate Citation Link: <https://www.researchgate.net/profile/Ify-Obim>

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### List of 10 recent publications since 2019

- **Obim, I. E.**, & Akpokurerie, A. O. (2022). Utilization of Assistive Technology for Effective School Library Service Delivery to Students With Disabilities. In *Proceedings of the 50th Annual Conference of the International Association of School Librarianship* (pp. 1–22). <https://doi.org/10.29173/iasl8551>
- **Obim, I. E.**, Eneasato, O., & Wagwu, V. (2022). Adopting web 2.0 technology for effective school library service delivery in covid 19 era: issues, challenges and strategies. *Journal of Applied Information Science and Technology*, 15(2), 37–44.
- **Obim, I. E.**, Onah, J. C., & Nwankwo, E. . . (2021). Awareness And Competency Level Of Undergraduates For Entrepreneurship Opportunities In Library And Information Science Profession In University Of Nigeria, Nsukka. *Library Philosophy and Practice (e-Journal)*, (March). Retrieved from <https://digitalcommons.unl.edu/libphilprac/5067/>
- Tella, A., & **Obim, I. E.** (2022). Teaching and Learning Online During Covid-19 Lockdown, Encouraging and Discouraging? -- The Perspectives of Students and Staff of Library and Information Science in Nigerian Universities. *IASL 2022 Proceedings*, (November). Retrieved from <https://journals.library.ualberta.ca/slw/index.php/iasl/article/view/8530/5163>
- Onah, Jude Chidike; **Obim, Ify Evangel**; Owraigbo, Lucky; Alu, G. O. (2020). Strategic Roles of Library and Information Professionals in Curbing the Proliferation of Political Corruption in Nigeria : Introducing Conscience Elimination Discourse. *International Journal of Library and Information Studies*, 10(3), 42–53.
- Onyebuchi, G. U., & **Obim, I. E.** (2020). Facilitating STEM education for vulnerable school children through library outreach: The children centre linkages. *Journal for Science, Technology, Engineering and Mathematics Education in Africa*, 3(October), 268–278. Retrieved from <https://www.smase-africa.org/wp-content/uploads/2021/08/JSTEMEA-VOL.III-2019.pdf>
- **Obim, Ify Evangel**; Onyebuchi, Grace U.; Fagbemi, Victoria Y. and Nwankwo, E. U. (2020). Stepping Up Information Literacy Programmes By the Library and Information Science (Lis) Educators for Entrepreneurship and Employability. *Journal of Applied Information Science and Technology*, 13(2), 218–226.
- Onyebuchi, G. U., Babarinde, E. T., **Obim, I. E.**, & Fagbemi, V. O. (2020). From Library Services To Literacy Development Programme In Nsukka Prison Library: Our Experience. *Library Philosophy and Practice*, 2020(October).
- Ihekwoaba, E. C., Okwor, R. N., Nnadi, C. U., Jidere, U. U., & **Obim, Ify Evangel** (2022). Sustaining
- Indigenous knowledge through the digitization of information on Herbal Medicine in Medical libraries in Nigeria : Problems and Prospects. *Library Philosophy and Practice*. Retrieved from <https://digitalcommons.unl.edu/libphilprac/7316>
- **Obim, Ify Evangel** and Onyebuchi, Grace U. (2019). Use of Online Public Access Catalogue (OPAC) for Research by Undergraduates in Developing Countries: A viable Change Agent. *Nigerian Libraries: Journal of the Nigerian Library Association* Vol. 52 (1) 162-171 January-June 2019. Available @ <https://www.ajol.info/index.php/jnla/search/authors/view?givenName=Ify%20Evangel&familyName=Obim&affiliation=&country=&authorName=Obim%2C%20Ify%20Evangel>

## List of 10 recent publications since 2019

- Publication of Journal of Applied Information Science and Technology, Volume 12, Number 1, April 2019.
- Publication of Journal of Applied Information Science and Technology, Volume 12, Number 2, September 2019
- Publication of Journal of Applied Information Science and Technology, Volume 13, Number, April 2020.
- Publication of Journal of Applied Information Science and Technology, Volume 13, Number 2, September 2020.
- Publication of Journal of Applied Information Science and Technology, Volume 14, Number 1, April 2021.
- Publication of Journal of Applied Information Science and Technology, Volume 14, Number 2, September 2021.
- Publication of Journal of Applied Information Science and Technology, Volume 15, Number 1 April, 2022.
- Publication of Journal of Applied Information Science and Technology, Volume 15, Number 2, September 2022.
- Publication of Journal of Applied Information Science and Technology, Volume 16, Number, April 2022.
- Summit of Authors Researchers Editors and Scholars **Achieving Excellence in Scholarly Communication**

## 29. Sexual and Reproductive Health Research Group (Formerly Youth-friendly Reproductive Health Research Group)

**Main Research Focus of the RG:** This research group unanimously agreed to expand its scope of research, and this led to a little modification in the name. Currently, Sexual and Reproductive Health Research Group (SRHRG) aims at addressing all research areas related directly or indirectly to sexual and reproductive health (SRH) of every individual, young and old, physically/mentally challenged or not. The specific areas interests are:

- Sexual and reproductive health, rights, and services
- Maternal and child nutrition,
- Prevention and control of SRH diseases
- Prevention and control of Sexually Transmitted and Blood-Borne Infections (STBBI),
- Water, Sanitation, and Hygiene (WaSH),
- Sexual and gender-based violence (SGBV),
- Population studies, and
- Adolescent health.

### **Title of recent research project:**

- National Science Foundation (NSF) RAPID: Evolutionary Nutritional Adaptation and COVID-19 Risks among Health Workers in Nigeria, 2020-2022

- 2020 AAP Transforming Institutions Strategic Grant for a Grant Writing Workshop at the Department of Human Kinetics and Health Education, University of Nigeria, Nsukka, 2020-2021
- Determining the association between maternal nutrition and breast milk components among nursing mothers in northern Kenya
- Assessing youth's sexual and reproductive health services access and utilization in Enugu State
- Characterizing female genital mutilation in Ebonyi State
- Assessing the sexual and reproductive health problems of internally displaced adolescents in Borno State

**Name of the Coordinator:** Dr. Amelia Ngozi Odo

**UNN email address of the RG:** [srhr@unn.edu.ng](mailto:srhr@unn.edu.ng)

**UNN email address of the coordinator:** ngozi.odo@unn.edu.ng

**Current webpage of the RG:** <https://www.unn.edu.ng/sexual-and-reproductive-health-research-group-formerly-youth-friendly-reproductive-health-research-group/>

**Phone number of the RG:** 09074526829

**Phone number of the coordinator:** 08064649495

**Base Faculty/Institute/Center of the RG:** Faculty of Education, University of Nigeria, Nsukka

**Department of the Coordinator:** Human Kinetics and Health Education

**Headshot of the Coordinator:**



**List and brief profiles of members:**

- Dr. Amelia Ngozi Odo (Co-Ordinator)
- Prof. Evelyn N. Nwagu
- Prof. Petra O. Nnamani
- Dr. Samuel I.C. Dibia
- Dr. Kenekwaku N. Anugwuom
- Dr. Amelia Ngozi Odo (Co-Ordinator) is a Senior Lecturer in the Department of Human Kinetics and Health Education, University of Nigeria, Nsukka, Nigeria. She is a citizen of Nigeria. She received her Ph.D. and Masters in Public Health Education, B.Sc in Health Education, and Diplomas in Public Health Nursing, Midwifery, and General Nursing. Dr. Amelia was a post-doctoral researcher at the Department of Anthropology, Michigan State University-MSU (2019-2020). Her primary research interests are in sexual and reproductive health including maternal and child health, adolescent health, nutrition and public health, infectious diseases prevention and control, and gender issues. She has attended some national and international conferences/workshops and published some articles in reputable journals. CV: <https://docs.google.com/document/d/1hhOmWOPypkVxgj00Wb-IsfT5vo-Ra7xz/edit#> Google Scholar:

<https://scholar.google.com/citations?user=nlyyPCkAAAAJ&hl=en> Research Gate: <https://www.researchgate.net/profile/Amelia-Odo-2>

- Prof. Evelyn Nwanebe Nwagu is a Lecturer in the Department of Human Kinetics and Health Education, University of Nigeria Nsukka. Formerly known as Department of Health and Physical Education. She graduated with First Class Honours Degree in Health Education. She has a Ph.D and M.Ed in Public Health Education. She is also a Register Nurse Midwife. Her research interests include, disease prevention and health promotion. She has conducted many studies in this area and has published many research articles.

CV:

[https://docs.google.com/document/d/1YB1zKQYCisvLc0S0ZUrre15jHU22ohdg/edit?usp=hare\\_link&oid=116299835199187982052&rtpof=true&sd=true](https://docs.google.com/document/d/1YB1zKQYCisvLc0S0ZUrre15jHU22ohdg/edit?usp=hare_link&oid=116299835199187982052&rtpof=true&sd=true)  
Google Scholar:

<https://scholar.google.com/citations?user=tkmLI9sAAAAJ&hl=en>

ResearchGate: <https://www.researchgate.net/profile/Evelyn-Nwagu>

- Prof. Petra Obioma Nnamani is a Professor of Pharmaceutics and a highly motivated academic with many years' experience at both Teaching and Research. She has published widely and attended many conferences both locally and internationally as well as attracted and managed grants both internationally and nationally. Notable among the grants is the star in global health grant from Grand Challenges Canada, an arm of the Bill and Melinda Gates Foundation. With her experiences, she can guide, manage and offer advice on grants.

Google

Scholar:

[https://scholar.google.com/citations?hl=en&tzom=420&user=tyI9YhYAAA\\_AJ](https://scholar.google.com/citations?hl=en&tzom=420&user=tyI9YhYAAA_AJ) ResearchGate: <https://www.researchgate.net/profile/Petra-Nnamani-P>

- Samuel Ifeanyi Chris DIBIA, (PhD) is a senior lecturer in the department of Human Kinetics and Health Education, University of Nigeria Nsukka. Samuel is a Public Health Educator and Researcher with research interests in public health education, school health education, waste management, substance abuse prevention, diabetes care, and climate change education. He has attended some national and international conferences/workshops and published some articles in reputable journals.

CV:

<https://docs.google.com/document/d/1wgoxduoac9Uo94zLGTNSWps2kVqNiuem/edit?usp=drivesdk&oid=115886459167475689467&rtpof=true&sd=true>  
Google Scholar:

[https://scholar.google.com/citations?hl=en&user=huESqf8AAAAJ&view\\_op=list\\_works&gmla=AJsNF6GYWAc9ZNPXKbInkY7CFdEpU2SSVY16GCOPLA971hJy7aKdksNqUcRjUKQ7qeE](https://scholar.google.com/citations?hl=en&user=huESqf8AAAAJ&view_op=list_works&gmla=AJsNF6GYWAc9ZNPXKbInkY7CFdEpU2SSVY16GCOPLA971hJy7aKdksNqUcRjUKQ7qeE)

<https://www.researchgate.net/profile/Samuel-Dibia-2>

ResearchGate: <https://www.researchgate.net/profile/Samuel-Dibia-2>

- Dr. Kenechukwu, Nwakego ANUGWOM is a senior lecturer in the Department of Social Work of the University of Nigeria and a senior research fellow in the Institute of Development Studies, University of Nigeria, Nsukka. She has a PhD in social gerontology (management and care of breast cancer in elderly women). Her current research interests are in gerontology, trauma, health, HIV/AIDS prevention, reproductive health of older women, migration and diaphora studies amongst others.

As a licenced and registered professional, she also provides counselling services and has significant international experience in both practice and teaching of social work. Apart from a sole authored text on “Coping Strategies of Elderly Widows in Southeastern Nigeria” (2013, LAP; ISBN: 978-3659340147), she has a good number of publications in international academic journals on such themes as HIV/AIDS; Breast Cancer among the Elderly etc

Google

Scholar:

[https://scholar.google.com/citations?hl=en&user=tBXs\\_eQAAAAJ](https://scholar.google.com/citations?hl=en&user=tBXs_eQAAAAJ)

ResearchGate: <https://www.researchgate.net/profile/Kenechukwu-Anugwom>

### **Key publications of the RG from 2019 till date**

- Fujita, M., Wander, K., Paredes Ruvalcaba, N., & Odo, A. N. (2022). Human milk lactoferrin variation in relation to maternal inflammation and iron deficiency in northern Kenya. *American Journal of Human Biology*, <https://doi.org/10.1002/ajhb.23812>
- Odo, A.N., Ofuebe, J.I., Anike, A.I., & Samuel, E.S. (2021). Predictors of young people’s use of sexual and reproductive health services in Nigeria: a mixed-method approach. *BMC Public Health*, 21. Available at <https://bmcpublichealth.biomedcentral.com/articles/10.1186/s12889-020-10022-x>
- Odo, A.N., Dibia, S.I.C., Nwagu, E.N., Umoke, M., & Umoke, P.C.I. (2020). Towards characterization of female genital mutilation (FGM) in rural Nigeria. *African Health Sciences*, 20(4). Available at <https://www.ajol.info/index.php/ahs/article/view/202368>
- Odo, A.N., Musa, K. & Oladugba, A.V. (2020). Sexual and reproductive health needs and problems of internally displaced adolescents (IDAs) in Borno State, Nigeria: a mixed method approach. *African Journal of Reproductive Health*; 24(1): 87-96. Available at <https://www.ajrh.info/index.php/ajrh/article/view/2070/pdf>
- Odo, A.N., Samuel, E.S., Nwagu, E.N., Nnamani, P.O., & Atama, C.S. (2018). Sexual and reproductive health services (SRHS) among adolescents in Enugu State, Nigeria: a mixed methods approach. *BMC Health Services Research*. Available at <https://bmchealthservres.biomedcentral.com/track/pdf/10.1186/s12913-017-2779-x?site=bmchealthservres.biomedcentral.com>

## **30. Surplus People in the Universities Research Group**

**Focus:** Marginalized groups and communities

**Title of the most recent research project:** Extending Research collaboration to People with disabilities.

### **Current research projects:**

- Ukwoma, S.C., Osadebe, N.E., Okafor, V.N. and Ezeani, C.N. (2021). Unveiling the veiled: Wikipedia collaborating with academic libraries in Africa in creating visibility for African women through Art+Feminism Wikipedia edit-a-thon. *Digital Library Perspectives* 37:4, 449-462. <https://doi.org/10.1108/DLP-08-2020-0079>
- Osadebe, N. E. and Okwor, R. N. (2021). Research Support Services in Selected African University Libraries. *Library Philosophy and Practice* (e-journal). 5222. <https://digitalcommons.unl.edu/libphilprac/5222/>

- Osadebe, N. E. and Okwor, R. N. (2021). Research Support Services in Selected African University Libraries. *Library Philosophy and Practice* (e-journal). 5222. <https://digitalcommons.unl.edu/libphilprac/5222/>
- Moses, O. E., Anyanwu, J. I Onuigbo, L. N., Ifelunni, C. O., Alabi-Oparaocha, F. C., Okenyi E. C. et al (2020) Rational Emotive Family Health Therapy for reducing Parenting Stress in Families of Children with Autism
- Spectrum Disorders: A group randomized control study. *Journal of Rational Emotive and Cognitive Behavior Therapy* (in Press) <https://doi.org/10.1007/s10942-020-00342-7>
- Igbokwe Patrick Chijioke, Nwafor, Michael Chigozie and Igbokwe Josephine C (2020) Utilization of E-reference Services by Students with Disabilities in the Federal University Libraries in the South East, Nigeria. *Library Philosophy and Practice* (e-journal) <https://digitalcommons.unl.edu/libphilprac/3878>
- Osadebe, N.E; Njoku, E.O and Okore, A. O. (2020). Enhancing Literacy Learning among Primary School Pupils in Nsukka Local Government Area of Enugu State: The Role of the Children’s Centre Library, University of Nigeria, Nsukka. *Library Philosophy and Practice* (e-journal). <https://digitalcommons.unl.edu/libphilprac/3984>
- Eseadi, C., Oyeoku, E.K., Onuigbo, L.N., Otu, M.S., Nwefuru, B.C.& Edeh, N.C. (2019). Rational-Emotive Behavior Therapy Program for Trauma-Specific Beliefs Among Undergraduate Students: Testing the Effect of A Group Therapy. *Global Journal of Health Science*, 11 (8), 61-79 <http://www.ccsenet.org/journal/index.php/gjhs>

**Name of the coordinator:** Dr Ngozi Eunice Osadebe

**UNN Email of the RG:** [surpluspeopleuni.rg@unn.edu.ng](mailto:surpluspeopleuni.rg@unn.edu.ng)

**UNN email address of the coordinator:** [ngozi.osadebe@unn.edu.ng](mailto:ngozi.osadebe@unn.edu.ng)

**Current Web page of the RG:** <https://www.unn.edu.ng/surplus-people-in-the-universities-research-group/>

**Phone number of the RG:** None

**Phone number of the coordinator:** +2348072449822

**Base Faculty/Institute/Centre of the RG:** Education

**Base department of the coordinator:** Department of Library and Information Science

**Headshot of the Coordinator:**



**Brief profile of members:**

- Dr Ngozi Eunice Osadebe is a Deputy University Librarian at the University of Nigeria, Nsukka (UNN). She is a certified member of the Librarians Registration Council of Nigeria (LRCN). She is married with children. She won the Prof. M.I Ajibero Award for the best PhD thesis from Nigerian Library Schools in 2016 and the University of Nigeria, Nsukka excellent performance award in 2017. Ngozi is the South East

Geopolitical zone representative of the AuthorAid National Research Hub, Nigeria, and a fellow of the Association of Commonwealth Universities (ACU) Martha Farrell Foundation. Ngozi believe in the capability of libraries to transform communities. Based on this belief, she organizes library programs that can empower individuals with the skill to end poverty, fight hunger, deepen knowledge, attain good health, reduce inequalities, and mitigate climate change. She was a volunteer and secretary, at the Children's Centre Library, UNN, 2002 -2016, and the Chairman from 2017-2022. She has published 4 book chapters and 52 journal articles. Ngozi is a founding member and Coordinator of Surplus People in the Universities Research Group (SPURG), University of Nigeria, Nsukka (UNN), and the Director of Literacy for Sustainable Living Nigeria, (an NGO whose aim is to equip individuals with the skill to make informed decisions). She organizes the Nnamdi Azikiwe Library, UNN, and Surplus People in the Universities Research Group (SPURG), Art and Feminism English Wikipedia edit-a-thon. It is her dream to see a world in which librarians are active, transforming societies through information provision.

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<https://scholar.google.com/citations?user=yH4wBR0AAAAJ&hl=en>

<https://orcid.org/0000-0002-6512-5758>

- Nwafor Michael Chigozie is a Senior Librarian, he holds Diploma in Adult Education and Community Development, BSc in Psychology, Post Graduate Diploma in Library and Information Science, Master's degree in Library and Information Science (MLS) and currently a doctoral student. He is a volunteer librarian for the students with disabilities in UNN. He is the Secretary of the Surplus People in the University Research Group (SPURG). Mr Mike as he is fondly called by colleagues is an academic staff working in Cataloguing Section of Nnamdi Azikiwe Library as a lecturer, and cataloguer. His research interests include cyber librarianship, library administration/management, manual and online cataloguing. He teaches undergraduates and masters' students manual and online cataloguing, he equally teaches fresh men and women library user education. He has worked in different sections of the library. He was a former Special Assistant to the University Librarian. ResearchGate: <https://www.researchgate.net/profile/Michael-Nwafor>  
Google Scholar: <https://scholar.google.com/citations?user=jpVXW1QAAAAJ&hl=en>
- Dr. Liziana Nnenna Onuigbo is a Reader in the Department of Education Foundations, University of Nigeria, Nsukka where she teaches Special Needs Education. She holds M.Ed. and Ph.D. degrees in Special Education from the University of Nigeria in 1997 and 2008 respectively. She won the Vice Chancellor's Prize as the best graduating Ph.D. student in the Faculty of Education, University of Nigeria, Nsukka. 2008. Her areas of interest are assistive technologies for Special Needs Persons, and studies on visual impairment and mental health. Dr Onuigbo belongs to a number of international and national academic bodies. She teaches both undergraduate and postgraduate students of the university and has published about 70 articles in reputable national and international journals Onuigbo Liziana has participated in several UNICEF-sponsored research activities with impressive results and has served



as a resource person to several Millennium Development Goals Capacity building programs for teachers. She has served as a lead paper presenter at conferences.

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ResearchGate: <https://www.researchgate.net/profile/Liziana-Onuigbo>

- Mrs Beatrice O Ewa is a Librarian at Nnamdi Azikiwe Library, University of Nigeria, Nsukka. She has a Post Graduate Diploma Certificate from the Department of Library and Information Science. She is currently pursuing her Master's degree in the same Department. She is a member of the Nigerian Library Association (NLA) Enugu State branch, a member, of the Children Centre Library, UNN (CCL), a member, of the worldwide Online Climate Conference (WWOCC 2020), a member, of Dr Nnamdi Azikiwe Private Library Digitization Team (NAPLDT), a member of the University of Nigeria Nsukka, Christ Church Chapel, Member Google Group "Id4 wiki data" group, a Member Wikipedia Nigerian user group, Member Wikimedia user group Enugu Hub, Member, Equity Watch Initiative Art + Feminism Wikipedia Edit-a-thon, Member, Surplus People in the University Research Group (SPURG), a Member, and President of Afikpo Town Welfare Association, a Member, African Library and Information and Institution Association (AFLIA). She won the 2019 Winner of the University of Nigeria Excellent Performance Award Senior Staff Cadre and she is married with children.
- Ezi Onwuka Njoku is a Librarian. She works at the University Library. She is the librarian in charge of the Physical Challenged Section. She has the following academic qualifications: NCE in Biology/Chemistry; (1985-1988), B.Sc. in Education /Chemistry (1991 – 1998), M.Sc. in Analytical Chemistry (2001 – 2004), MLS in Library and Information Science (2005 – 2011) and is She is a member of the Nigerian Library Association- NLA and Children's Library Committee, UNN.
- Dr. Adizetu Ali is presently a Librarian with Nnamdi Azikiwe Library, University of Nigeria, Nsukka. She holds a B.Sc, M.Ed and a Doctoral Degree in Library and Information Science, from the University of Nigeria, Nsukka. She has published in local and international journals. Ali is a woman of dual profession. As a teacher, she has taught and guided many school children. She was also a long-time examiner with the West African Examination Council (WAEC) and National Examination Council (NECO) for many years. As a librarian, Ali has been actively involved in professional issues, both in the main Library [Nnamdi Azikiwe Library] and in the Faculty of Education Library respectively, UNN. As the Faculty Librarian she worked assiduously in educating library clients, teaching students on industrial training experience, and lectures the course [Introduction to Information Literacy skills and Use of Library]. She is a library consultant to the Department of Food Science and Technology in the Faculty of Agriculture, University of Nigeria, Nsukka. She encourages those under her through mentoring and daily demonstration of professional behaviour. Ali maintains appropriate relations with her colleagues and library users. She is highly involved in academic research and self-study. <https://www.linkedin.com/in/adizetu-ali-002a37117/?originalSubdomain=ng>
- Mrs Chioma C. Onoh hails from Akama Amankwo Ngwo in Udi local government area of Enugu State, Nigeria. She is a senior Librarian. She works at the Nnamdi Azikiwe Library, University of Nigeria, Nsukka. She is a founding member and financial secretary of the Surplus People in the Universities Research Group. Chioma is

presently a Ph.D. student at the Department of Library and Information Science, University of Nigeria, Nsukka. She is the Secretary Junior Staff Appraisal Committee since 2018-date. She has published many articles in reputable journals. She is a member of many professional bodies among which is the Nigerian Library Association (NLA) and Academic and Research Libraries Session of the Nigerian Library Association. (ARLS). Email- [chioma.onoh@unn.edu.ng](mailto:chioma.onoh@unn.edu.ng) Phone- 07065415033  
<https://www.researchgate.net/profile/Chioma-Onoh>

Google scholar: <https://scholar.google.com/citations?user=yS1wXd8AAAAJ&hl=en>

- Dr. Emmanuel Chukwunweike Nwangwu is a Senior lecturer and the current Head, Department of Computer and Robotics Education, University of Nigeria, Nsukka. He has over 12 years teaching experience in higher education. His areas of specialization include Computer Programming & Audio-Visual (Multimedia) Design and Productions. Dr. Nwangwu is the Media and Publicity Secretary, Local Management Committee of Erasmus Mundus Mobility Programme, Erasmus+ KA 107, and the Intra-Africa AFRICOM Project in his institution. He is also the current National Vice President of Computer Educators Association of Nigeria (CEAN) and Member, UNESCO-UNEVOC TVET Forum as well as belonged to various academic research groups. His research interests include E-learning, Multimedia Technologies, ICT, Courseware design and development and Robotics. Dr. Nwangwu has attended conferences, workshops and mobility programs in Japan, Spain and Tunisia respectively and have also published in international and local journals including Books and Book Chapters. He is happily married with three children.

Google Scholar: <https://scholar.google.com/citations?user=-R3TvwAAAAJ&hl=en>

Linkedin: <https://www.linkedin.com/in/emmanuel-nwangwu-b63654/?originalSubdomain=ng>

- OKWOR ROSELINE NGOZI was born in Ohom-Orba, Udenu Local Government Area of Enugu state on July 25, 1973. She bagged a Bachelor of Science Degree (Bsc.) and a master's degree in library and Information Science from University of Nigeria, Nsukka. She has a keen interest in ICT application in Cataloguing of Library resources. Roseline has a rich store of skills in Cataloguing and Classification. She has published many articles in reputable journals. Her area of interest in research is cataloguing & classification, and traditional ethics. She is a member of the Nigerian library Association (NLA) and Academic Staff Union of University (ASUU). She is a registered member of the Librarians Registration Council of Nigeria. She is a volunteer Roseline takes pleasure in visiting public primary schools in Nsukka with the aim of helping them to organize their collections.

E-MAIL ADDRESS: [okworroseng@yahoo.com](mailto:okworroseng@yahoo.com)

PHONE NUMBER: 08066398429

<https://scholar.google.com/citations?user=2fRtFR4AAAAJ&hl=en>

## FACULTY OF ENGINEERING

### 31. Agricultural and Bioresources Engineering

**Main Research Focus** and other areas of research interest of the **RG**:

**Title of most recent research project:**

**A maximum of seven (7) other current or completed research projects**

Refractance window drying of orange juice and tomato puree

Roselle tea processing

Effect of extracting conditions on the nutritional content of roselle raffinate

Engineering properties of cucumber seeds and sesame seeds and capsules

Physical properties of black beans relevant for its processing

Production of biodegradable tea cups using orange flesh sweet potato peels

Production of export grade ginger tea

**Name of the Coordinator:** Engr. Dr. S.L. Ezeoha,

**UNN email address of the RG:** [agric.engineering.rg@unn.edu.ng](mailto:agric.engineering.rg@unn.edu.ng)

**UNN email address of the Coordinator:** [sunday.ezeoha@unn.edu.ng](mailto:sunday.ezeoha@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/agricultural-and-bioresources-engineering-research-group/>

**Phone number of the RG:** +234 803 540 4712

**Phone number of the Coordinator:** +234 803 540 4712

**Base Faculty/Institute/Center of the RG:**

**Department of the Coordinator:**

**Headshot of the Coordinator**

**List of members and brief intro:**

- Engr. Assoc. Prof. S. L. Ezeoha

Engr. Dr. Sunday Louis Ezeoha (B.Eng., M.Eng. Ph.D –Agricultural Engineering) is a professional Agricultural Engineer; member, Nigerian Institution of Agricultural Engineers (**MNIAE**); member, Nigerian Society of Engineers (**MNSE**); member, American Society of Agricultural and Biological Engineers (**MASABE**); registered engineer, Council for the Regulation of Engineering in Nigeria (**COREN**). Currently, he is a lecturer in the Department of Agricultural & Bioresources Engineering, Faculty of Engineering, University of Nigeria, Nsukka. His research interests include processing and storage of agricultural products, development of machines for processing of local crops, agricultural waste management, food and bioprocess studies, renewable energy studies, agricultural and bioresources mechanization strategies and systems. He teaches on the B.Eng. PG Studies programme.

- Engr. Assoc. Prof. C. N. Anyanwu

Engr. Dr. Cosmas Anyanwu is an Associate Professor of Agricultural and Bioresources Engineering, specializing in Food and Bioprocess Engineering. He is currently serving as Deputy Director of the World Bank Africa Centre of Excellence for Sustainable Power and Energy Development, University of Nigeria, Nsukka. He is a highly motivated academic who has worked on several national and international projects including as (i) Senior

Research Fellow in the Nigerian Deep Decarbonisation Project funded by the French Development Agency (AFD) (2021- 2024); (ii) Senior Research Fellow in the Nigerian Long-Term Low Emissions Strategy Project funded by the Federal Ministry of Environment and French Development Agency (AFD) (2022-2023); (iii) Chairman, Nigerian Technical Committee on Clean Cookstoves and Cooking Solutions and Nigerian Rep. in the Technical Committee (TC 285) of the International Organization for Standardization (ISO) (iv) Visiting Research Fellow of ENEA Research Centre Trisaia, Italy on biomass and waste-to-energy conversion projects especially gasification (2005 and 2009); (v) Visiting Research Fellow of Aprovecho Research Centre, Oregon USA (2013) (vi) Energy consultant to the German International Co-operation Agency (GIZ) as well as the International Centre for Energy, Environment and Development (ICEED) on various renewable energy projects, etc

- Engr. Dr. F. U. Asoiro

Engr. Dr. Felix Uzochukwu Asoiro (B.Eng., M. Eng. PhD - Agricultural Engineering) is a Senior Lecturer in the Department of Agricultural and Bioresources Engineering, University of Nigeria, Nsukka. He is a member of Nigerian Institution of Agricultural Engineers (**MNIAE**), Nigerian Society of Engineers (MNSE) and American Society of Agricultural and Biological Engineers (**MASABE**). He is currently in the Food Security research group, working also as a lecturer/researcher in the Department of Agricultural and Bioresources Engineering, University of Nigeria, Nsukka where he engages in teaching and supervision of both undergraduate and graduate students. He was awarded the Erasmus+ KA107 Teaching Staff Mobility Grant to the Universidad de Leon, Spain in 2022. His research interests include: Food and Bioprocess and Storage Engineering, Optimization of oil extraction from Nigerian fresh water microalgae, Effects of cultivation systems and extraction temperature on oil extraction of Nigerian fresh water microalgae, Renewable bio-energy with emphasis on non- edible feedstock, Physical, mechanical and thermal properties of biomaterials with emphasis on indigenous local crops. <https://www.unn.edu.ng/internals/staff/viewProfile/ODQ1>

- Engr. Mrs. N. N. Aneke

Engr. Nneoma Aneke is a registered engineer and occupies the position of Lecturer 1 in the Department of Agricultural and Bioresources Engineering, University of Nigeria, Nsukka. She is a graduate of Agricultural Engineering from Obafemi Awolowo University and M.Eng from University of Nigeria, Nsukka. She is currently tidying up her Doctorate degree in Food Process Engineering in the Department of Agricultural and Bioresources Engineering at the University of Nigeria, Nsukka. She is a member of Nigerian Society of Engineers (NSE), Nigerian Institute of Agricultural Engineers (NIAE) and she is currently the technical secretary of Association of Women Engineers in Nigeria (APWEN) Nsukka Chapter. She has authored many conference and academic journal papers.

- Engr. U. C. Abada

### **Key publications**

- S. L. Ezeoha, C. N. Anyanwu and J. N. Nwakaire. The Prospects, Impacts and Challenges of Enhanced Cellulosic Ethanol Production: A Review. Nigerian Journal of Technology, Vol. 36 (1) (2017):267-275.

- Felix Uzochukwu Asoiro et al (2019). Mechanical and Thermal Properties of *Irvingia gabonensis*, *Detarium microcapum*, *Mucuna pruriens* and *Brachystegia eurycoma*. *Journal of Scientific and Engineering Research*, 6(1):23-33.
- Ezeoha, S. L., Aneke, N. N. & Iwunze, C. 2019. Effect of Boiling Time on Selected Engineering Properties of Cassava. *International Journal of Advanced Scientific Research and Management*, Volume 4(2): 79-83.
- S. L. Ezeoha; N. N. Aneke; A. C. Ezeagba, and U. F. Nzeanus. 2019. Effect of Soaking Time and Temperature on Some Physical and Mechanical Properties of Cowpea (*Vigna Unguiculata*). *Journal of Scientific and Engineering Research*, 2019, 6(3):41-58.
- Onu, O.B., Ani A. O., Asoiro, F.U. and Ezeoha, S. L. (2019) Engineering properties of roma tomato variety (DERICA SPP.). *Innovative solutions in engineering*, Journal of the Nigerian Academy of Engineering, 2(1): 1-15.
- Felix Uzochukwu Asoiro, Sunday Louis Ezeoha, Cosmas Ngozichukwu Anyanwu, Nneoma Nkem Aneke. (2020). Physical properties of *Irvingia gabonensis*, *Detarium microcapum*, *Mucuna pruriens* and *Brachystegia eurycoma* seeds. *Heliyon* 6 (9): <https://doi.org/10.1016/j.heliyon.2020.e04885>
- Anyanwu, C. N. et al (2021). Solar photovoltaic (PV)-driven active crop drying system for plantain (MUSA SPP): Design, development, and performance evaluation. *Journal of Food Process Engineering*, 2021: 1-14, e13892
- Anyanwu, C. N et al (2021). Comparative evaluation of mesh sieve performance of a wet cereal slurry sieving machine. *Agricultural Engineering International: CIGR Journal*, 23(1): 115-127.
- Anyanwu, C. N. et al (2021). Solar photovoltaic (PV)-driven active crop drying system for plantain (MUSA SPP): Design, development, and performance evaluation. *Journal of Food Process Engineering*, 2021: 1-14, e13892.
- Aneke, N. N et al (2023). Optimization of Anthocyanin Extraction from Roselle (*Hibiscus sabdariffa*) Calyces: RSM, Kinetic Modelling, Mass Transfer and Thermodynamic Studies. *Research and Innovation in Food Science and Technology*, 11(4), 437-450. doi: 10.22101/JRIFST.2022.350494.1380

## 32. Applied Energy, Economics and Environment (AEEE) Research Group

**Main research focus and other areas of research interest of the RG:** The Applied Energy, Economics and Environment (AEEE) Research Group is a multi-disciplinary energy research group, based in the University of Nigeria. The research focus for the group includes Modelling and Performance Evaluation of Energy Systems, Design and Development of Energy & Process Systems, Condition Monitoring of Energy Systems, Cleaner Productions, Energy Policy Development & Analysis, Energy Management, Environmental Impact Assessment of energy systems, Energy Economics, Energy Financing, Energy Access, and etc.

**Title of most recent research project:** Thermal analysis of solar energy systems

**A maximum of seven (7) other current or completed research projects:**

- Life cycle Assessment of Water Production Systems.
- Waste heat recovery in conventional Truck engines.
- Impact of economic policy uncertainty on global retail energy markets.

- Solar Direct Drive Refrigerators.
- Cooking Energy Demand Patterns in Nigeria.
- Solar Energy Policy Appraisal for Nigeria and West Africa.

**Name of the Coordinator:** Prof. Samuel Ogbonna Enibe

**UNN email address of the RG:** aeee-researchgroup@unn.edu.ng

**UNN email address of the coordinator:** [samuel.enibe@unn.edu.ng](mailto:samuel.enibe@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/applied-energy-economics-and-environment-aeee-research-group/>

**Phone number of the RG:** +2348102475639; +2348063646798

**Phone number of the coordinator:** +2348063646798

**Base Faculty/Institute/Center of the RG:** Engineering

**Department of the Coordinator:** Mechanical Engineering

#### Headshot of the coordinator



**List and brief profiles of members (one paragraph per member) with their UNN website url to their detailed CVs (hyperlinks are OK):**

**Prof. Samuel Ogbonna Enibe** is a Professor of Mechanical Engineering in the University of Nigeria, Nsukka with over three decades of experience from across the world in the engineering field. He obtained his bachelor of Engineering honours degree in Mechanical Engineering from the University of Nigeria, Nsukka (UNN) in 1982, M.Sc. In Alternative Energy from the University of Reading, England in 1986 and Ph.D in Mechanical Engineering from the University of Nigeria, Nsukka in 1995. His professional career started at the National Centre for Energy Research and Development with parallel appointment in the Department of Mechanical Engineering at University of Nigeria, Nsukka, as Graduate Assistant from 1983–1986. He has been a Professor of Mechanical Engineering, University of Nigeria, Nsukka, since 2003. He has benefited from several scholarships which include; Scholarship of the United Africa Company (UAC) of Nigeria Plc 1977–1982, British Council Fellowship held for 12 months at the University of Reading, England, 1985–1986, International Foundation For Science (IFS)/King Baudouin Award (1996), Joint Fellowship of the Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy and the Italian Agency for New Technologies, Energy and the Environment (ENEA) held for 12 months at the Casaccia Research Centre of ENEA in Rome, Italy, 1995–1996, Academic Exchange Fellowship of the African Network of Scientific & Technological Institutions, Nairobi, Kenya held at the Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, 2000. He served as Dean, Faculty of Engineering, UNN from 2014 to 2016.

**Google Scholar** [https://scholar.google.com/citations?user=Mwq\\_HFkAAAAJ&hl=en](https://scholar.google.com/citations?user=Mwq_HFkAAAAJ&hl=en)

**Research-gate** <https://www.researchgate.net/profile/Samuel-Enibe>

**Prof. Godwin O. Unachukwu** is the Deputy Director of the Institute of Climate Change Studies, Energy & Environment, University of Nigeria Nsukka (ICCSEE-UNN); Research Team Lead & Staff - Renewable Energy Systems & Energy Conservation, Africa Centre of Excellence for Sustainable Energy and Power Development (ACE-SPED) University of Nigeria and the Head of Programmes - Energy Policy, Regulation and Management (EPRM) & Management of Technology and Innovation (MoTI) Africa Centre of Excellence for Sustainable Power & Energy Development (ACE-SPED). He was a former Acting Director of The National Centre for Energy Research & Development, Energy Commission of Nigeria, University of Nigeria. He has a PhD in Mechanical Engineering from the University of Nigeria, an MEng in Fuel & Energy Engineering from the University of Port-Harcourt, and a bachelor's degree in Industrial Chemistry from the University of Nigeria. He teaches the following graduate-level courses: Energy Management, Introduction to Energy Policy and Analysis; Energy Management Systems and Policy in the Industry, Renewable Energy Financing and Portfolio Standards; Green Energy Policy and Planning, Case Studies of Energy Incentive Programmes, and Conceptual and Policy Issues in Sustainability.

**Google Scholar** <https://scholar.google.com/citations?user=BmcY1AQAAA&hl=en>

**UNN web-profile** <https://engineering.unn.edu.ng/wp-content/uploads/sites/4/2016/10/CURRICULUM-VITAE-of-Professor-Unachukwu-latest-3.pdf>

**Dr. Patrick Udeme-obong Akpan** is a Senior Lecturer with the Department of Mechanical Engineering at the University of Nigeria. His expertise covers: design, modelling and thermal performance evaluation of conventional and renewable energy systems and power plants; energy system integration; energy audit; energy management and deployment; measurement and instrumentation; Energy resources and sustainable energy development; refrigeration and air-conditioning systems, and Life Cycle Assessment (LCA) of product systems using OpenLCA Software. He has a PhD in Mechanical Engineering (specializing in Power Plant Engineering) from the University of Cape Town in South Africa, an MSc in Process Systems Engineering (specializing in Energy Systems and Thermal processes) from Cranfield University United Kingdom and a Bachelor's degree in Mechanical Engineering from the University of Nigeria. He also reviews papers for Scientific and Engineering Journals such as Energy Conversion and Management, Energy, Nijotech, and etc. He has gained proficiency in the use of different engineering softwares in his previous and current research projects. These include: Python, Ansys Fluent, MATLAB, WANDA Transient, Excel, System Advisor Model, Virtual Plant, EPANET etc. His spoken and written English language skills are good

**Google Scholar** <https://scholar.google.com/citations?user=2Mm-sJ8AAA&hl=en>

**Research-gate** <https://www.researchgate.net/profile/Patrick-Akpan>

**Dr. Anthony Orji** is a Ph.D holder in Economics and a lecturer at the Department of Economics, University of Nigeria Nsukka. He is equally an Alumnus of the African Programme on Rethinking Development Economics (APORDE), Johannesburg, South Africa and a former Visiting Scholar to the University of Laval, Quebec, Canada. He has published widely and attended several professional conferences. He is a network member of many research organisations across the globe and has participated in several research projects funded by the following institutions: World Bank (Research on African Migration Project); Partnership for Economic Policy (PEP), University of Laval, Quebec-Canada;

African Economic Research Consortium (AERC), Nairobi-Kenya, Centre for Environmental Economics and Policy in Africa (CEEPA) South Africa; African Export and Import (AFREXIM) Bank; GIZ, Germany and many others. His research interests is in Development Economics, Energy Economics, Macroeconomics, Monetary Economics, Finance and Resource Mobilization, Cross border flows and Trade, Public Sector Economics, Growth and Poverty Reduction, Gender Economics and Regional Integration and he has published in these areas.

**Google Scholar:** [https://scholar.google.com/citations?user=i1r\\_FsAAAAJ&hl=en](https://scholar.google.com/citations?user=i1r_FsAAAAJ&hl=en)

**Research Gate Address:** [https://www.researchgate.net/profile/Anthony\\_Orji2](https://www.researchgate.net/profile/Anthony_Orji2)

**Scopus**

**Web**

**Address:**

<https://www.scopus.com/authid/detail.uri?authorId=55985171600>

**Dr. Jonathan E. Ogbuabor** is a Senior Lecturer in the Department of Economics, University of Nigeria, Nsukka (UNN) and Coordinator, Public-Private Partnership at the UNN Centre for Business Development (UNCBD). He is an expert in modeling macroeconomic asymmetries, especially in global energy markets. His expertise also covers the modeling of financial and macroeconomic connectedness. His working experience spans lecturing, banking, credit administration, risk management, and financial reporting and analysis. He holds a PhD in Economics from UNN; an MSc in Economics from the University of York, United Kingdom; an MSc in Economics and an MBA in Banking & Finance both from the Enugu State University of Science & Technology (ESUT), Enugu; and a First Class Honours BSc degree in Computer Science & Statistics from UNN. He is a Fellow of the Institute of Chartered Accountants of Nigeria (ICAN), a member of the Institute of Credit Administration, Nigeria (ICA), and an ICAN certified International Financial Reporting Standards (IFRS) expert.

**Google Scholar:** <https://scholar.google.com/citations?user=gPdZxbEAAAAJ&hl=en>

**Research-gate:** <https://www.researchgate.net/profile/Jonathan-Ogbuabor>

**UNN web-profile:** <https://staffprofile.unn.edu.ng/profile/4603>

**Dr. Onyinye I. Anthony-Orji** is a Senior Lecturer at the Social Sciences Unit of the School of General Studies and Department of Economics, University of Nigeria Nsukka. She is a network member of many research organisations across the globe including, Partnership for Economic Policy (PEP), University of Laval, Quebec-Canada; African Economic Research Consortium (AERC), Nairobi-Kenya, and many others. She also sits on the Editorial Board of many Scientific Journals. Her research interests is in Development Economics, Energy Economics, Macroeconomics, Monetary Economics, Finance and Resource Mobilization, and and she has published in these areas.

**Google Scholar Profile:** <https://scholar.google.com/citations?user=B8Vy-REAAAAJ&hl=en>

**Research Gate Profile:** <https://www.researchgate.net/profile/Onyinye-Anthony-Orji>

**Scopus**

**Web**

**Address:**

<https://www.scopus.com/authid/detail.uri?authorId=57190408810>

**Winnie Arazu** is a Lecturer in the Department of Economics, University of Nigeria. She obtained a Masters Degree from the same Department in 2019. She has served her Department in various capacities - as Member, National Universities Commission Accreditation Committee; Member, Examinations Committee and presently as the Librarian, a position she has occupied for years. Winnie has work experience in both the Private Sector and presently in the Public Sector. She served in the Private Sector for



years where she rose to the position of Personal Assistant to the President/CEO Archive Global Management Ltd. She presently consults for Rotakin Consult of Kontz Engineering Group Ltd.

**Research Gate:** <https://www.researchgate.net/profile/Winnie-Arazu>

**Google Scholar:**

[https://scholar.google.com/citations?hl=id&view\\_op=list\\_works&gmla=AHoSzIVE\\_pkiklGHKo6LSBI5UIhPju4UnU1uTh6wdplv2MyM9EAazHieEaRz5uOz4IrzX3CtgbReDfzo69K29cUEZdfCENMFeHsH\\_92we6DPBe4H0LvMP8Sz3Q&user=8vVr\\_6AAAAAJ](https://scholar.google.com/citations?hl=id&view_op=list_works&gmla=AHoSzIVE_pkiklGHKo6LSBI5UIhPju4UnU1uTh6wdplv2MyM9EAazHieEaRz5uOz4IrzX3CtgbReDfzo69K29cUEZdfCENMFeHsH_92we6DPBe4H0LvMP8Sz3Q&user=8vVr_6AAAAAJ)

**Engr. Chibuzo V. Ikwuagwu** is a Lecturer I with the Department of Mechanical Engineering and African Centre of Excellence for Sustainable Power and Energy Development. He obtained both his Bachelor's and Master's Degrees from Mechanical Engineering Department, University of Nigeria, Nsukka. His expertise covers Renewable and New Energy Systems, Energy Efficiency and Modelling, Drying Technology, Fluid Mechanics, Thermofluids and Energy Systems, Green Hydrogen Storage Processes and Numerical Modelling of Heat and Mass Transfer Processes.

**Google Scholar:** <https://scholar.google.com/citations?user=M1J-Tk0AAAAJ&hl=en>

**Research gate:** <https://www.researchgate.net/profile/Chibuzo-Ikwuagwu>

#### Members Google Scholar Citation & ResearchGate links

Prof. Samuel Enibe	Google Scholar	<a href="https://scholar.google.com/citations?user=Mwg_HFkAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=Mwg_HFkAAAAJ&amp;hl=en</a>
	Research-gate	<a href="https://www.researchgate.net/profile/Samuel-Enibe">https://www.researchgate.net/profile/Samuel-Enibe</a>
	UNN web-profile	
Prof. Godwin Unachukwu	Google Scholar	<a href="https://scholar.google.com/citations?user=BmcY1AQAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=BmcY1AQAAAAJ&amp;hl=en</a>
	Research-gate	
	UNN web-profile	<a href="https://engineering.unn.edu.ng/wp-content/uploads/sites/4/2016/10/CURRICULUM-VITAE-of-Professor-Unachukwu-latest-3.pdf">https://engineering.unn.edu.ng/wp-content/uploads/sites/4/2016/10/CURRICULUM-VITAE-of-Professor-Unachukwu-latest-3.pdf</a>
Dr. Patrick Akpan	Google Scholar	<a href="https://scholar.google.com/citations?user=2Mm-sJ8AAAAJ&amp;hl=en">https://scholar.google.com/citations?user=2Mm-sJ8AAAAJ&amp;hl=en</a>
	Research-gate	<a href="https://www.researchgate.net/profile/Patrick-Akpan">https://www.researchgate.net/profile/Patrick-Akpan</a>
	UNN web-profile	
Dr. Anthony Orji	Google Scholar	<a href="https://scholar.google.com/citations?user=i1r_FsAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=i1r_FsAAAAJ&amp;hl=en</a>
	Research-gate	<a href="https://www.researchgate.net/profile/Anthony-Orji-2">https://www.researchgate.net/profile/Anthony-Orji-2</a>
	UNN web-profile	<a href="https://elearning.unn.edu.ng/profile.php?id=7">https://elearning.unn.edu.ng/profile.php?id=7</a>
Dr. Jonathan E. Ogbuabor	Google Scholar	<a href="https://scholar.google.com/citations?user=gPdZxbEAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=gPdZxbEAAAAJ&amp;hl=en</a>
	Research-gate	<a href="https://www.researchgate.net/profile/Jonathan-Ogbuabor">https://www.researchgate.net/profile/Jonathan-Ogbuabor</a>
	UNN web-profile	<a href="https://staffprofile.unn.edu.ng/profile/4603">https://staffprofile.unn.edu.ng/profile/4603</a>
Dr. Onyinye Anthony-Orji	Google Scholar	<a href="https://scholar.google.com/citations?user=B8Vy-REAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=B8Vy-REAAAAJ&amp;hl=en</a>
	Research-gate	<a href="https://www.researchgate.net/profile/Onyinye-Anthony-Orji">https://www.researchgate.net/profile/Onyinye-Anthony-Orji</a>
	UNN web-profile	<a href="https://www.scopus.com/authid/detail.uri?authorId=57190408810">https://www.scopus.com/authid/detail.uri?authorId=57190408810</a>
Winnie Arazu	Google Scholar	<a href="https://scholar.google.com/citations?hl=id&amp;view_op=list_works&amp;gmla=AHoSzIVE_pkiklGHKo6LSBI5UIhPju4UnU1uTh6wdplv2MyM9EAazHieEaRz5uOz4IrzX3CtgbReDfzo69K29cUEZdfCENMFeHsH_92we6DPBe4H0LvMP8Sz3Q&amp;user=8vVr_6AAAAAJ">https://scholar.google.com/citations?hl=id&amp;view_op=list_works&amp;gmla=AHoSzIVE_pkiklGHKo6LSBI5UIhPju4UnU1uTh6wdplv2MyM9EAazHieEaRz5uOz4IrzX3CtgbReDfzo69K29cUEZdfCENMFeHsH_92we6DPBe4H0LvMP8Sz3Q&amp;user=8vVr_6AAAAAJ</a>
	Research-gate	<a href="https://www.researchgate.net/profile/Winnie-Arazu">https://www.researchgate.net/profile/Winnie-Arazu</a>
	UNN web-profile	
	Google Scholar	<a href="https://scholar.google.com/citations?user=M1J-Tk0AAAAJ&amp;hl=en">https://scholar.google.com/citations?user=M1J-Tk0AAAAJ&amp;hl=en</a>
	Research-gate	<a href="https://www.researchgate.net/profile/Chibuzo-Ikwuagwu">https://www.researchgate.net/profile/Chibuzo-Ikwuagwu</a>

Engr. Chibuzo V. Ikwuagwu	UNN web-profile	
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### 10 key publications of the RG from 2019 till date

- Ogbuabor, J. E et al (2023) The asymmetric impact of economic policy uncertainty on global retail energy markets: Are the markets responding to the fear of the unknown? *Applied Energy* 334, 120671
- Orji, A et al (2022) Socio-Economic Determinants of Cooking Energy Patterns in a Developing Economy: What do Nigerian Data Show?, *The International Journal of Environmental Sustainability* 18 (1), 69
- Orji, A. et al (2021) Energy demand and cooking energy cost in an oil-rich economy: A new evidence from Nigeria, *Studia Universitatis „Vasile Goldis” Arad–Economics Series* 31 (1), 1-21
- Ogbuabor, J. E., Orji, A., Anthony-Orji, O. I. (2021) Are anticompetitive behaviours rampant in global retail energy markets? A study of price elasticity, asymmetric price adjustment and rent-seeking, *Energy Research & Social Science* 70, 101783
- Bamimore, O. T., Enibe, S. O., Adedeji, P. A. (2021) Parametric effects on the performance of an industrial cooling tower, *Journal of Thermal Engineering* 7 (4), 904-917
- Ozoegwu, C. G. and Akpan, P. U. (2021) A Review and Appraisal of Nigeria's Solar Energy Policy Objectives and Strategies against the Backdrop of the Renewable Energy Policy of the Economic Community of West African States. *Renewable and Sustainable Energy Reviews* 143 (2021) 110887.
- Ozoegwu, C. G. and Akpan, P. U. (2021) Solar Energy Policy Directions for Safer and Cleaner Development in Nigeria. *Energy Policy Journal* 150 (2021) 112141.
- Akpan, P. U. and Fuls, W. F. (2021). Cycling of Coal fired Power Plants: A generic V-TCHR based CO<sub>2</sub> emissions factor model for predicting CO<sub>2</sub> emissions. *Energy* (20) DOI: [10.1016/j.energy.2020.119026](https://doi.org/10.1016/j.energy.2020.119026)
- Thaddaeus, J., Unachukwu, G. O., Mgbemene, C. A., Pesyridis, A., Usman, M., and Alshammari, F. A. (2021), Design, size estimation, and thermodynamic analysis of a realizable organic Rankine cycle system for waste heat recovery in commercial truck engines, *Thermal Science and Engineering Progress* 22, 100849
- Thaddaeus, J et al (2020) Overview of recent developments and the future of organic Rankine cycle applications for exhaust energy recovery in highway truck engines, *International Journal of Green Energy* 17 (15), 1005-1021
- Akpan, P. U. and Fuls, W. F. (2019). Application and limits of a constant effectiveness model for predicting the pressure of steam condensers at varying loads. *Applied Thermal Engineering* 158 (2019) 113779.

### 33. Biometrics Vision and Computing (BVC)

**Main research focus and other areas of research interest of the RG:** The research areas in BVC are biometrics recognition, computer vision, IoT and machine / deep learning

**Title of most recent research project:** Computer vision architectures and deep learning algorithms for iris segmentation

**A maximum of seven (7) other current or completed research projects:**

- AI-IoT in Health care
- COVID-19 prediction
- Deep learning architectures for real-time weed control and herbicide application
- Automated softbiometrics identification
- Face biometrics evaluation
- Deep Learning based body attributes' estimation
- Fusion in softbiometrics verification

**Name of the Coordinator:** Engr. Prof. Ogechukwu N. Iloanusi

**UNN email address of the coordinator:** [Ogechukwu.illoanusi@unn.edu.ng](mailto:Ogechukwu.illoanusi@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/biometrics-vision-and-computing-research-group-bvc-rg/> <https://biometricvision.com/>

**UNN email address of RG:** [bvc.researchgroup@unn.edu.ng](mailto:bvc.researchgroup@unn.edu.ng)

**Phone number of the coordinator:** 0903-054-4121

**Base Faculty/Institute/Center of the RG:** Department of Electronic and Computer Engineering

**Department of the Coordinator:** Department of Electronic and Computer Engineering

**List and brief profiles of members (one paragraph per member) with their UNN website url to their detailed CVs (hyperlinks are OK)**

- **Prof. Ogechukwu N. Iloanusi**

Ogechukwu N. Iloanusi (Ph.D.) is a Full Professor at the Department of Electronic and Computer Engineering, Faculty of Engineering, University of Nigeria. She holds a B.Eng.(1999) in Electronic Engineering; M.Eng (2003) and Ph.D. (2011) in Digital Electronics and Computer Engineering from the same Department. She joined the Faculty in October 2005 and has taught ten undergraduate and six postgraduate courses since then. She is the first female Head of Department and Professor in the Faculty of Engineering, UNN. Her research interests include biometric recognition, signal processing, artificial intelligence, computer vision, machine/deep learning and recently educational research. She has completed supervision of 23 postgraduate students and 122 undergraduate students. She is the Director of research in the Biometrics Vision and Computing group ([BVCLab](#)). She was a Visiting Scholar at West Virginia University from 2009 to 2010; a Commonwealth Visiting Fellow at University of Southampton in 2012; a Visiting Fellow at the Massachusetts Institute of Technology in 2013 and an Assistant Guest Professor at the University of Notre Dame, Notre Dame, IN, USA, from 2016 to 2017. She also authored the book titled – Fundamentals of Biometrics (2016) with other two co-authors. She has over 50 journal and conference publications and has attended over 20 conferences and

workshops internationally in countries in Africa, North America, Europe and the Middle East. You can view more about Ogechukwu Iloanusi on [LinkedIn](#) and [Google scholar](#).

- **Dr. Ijeoma J. F. Ezika**

Ijeoma J. F. Ezika (Ph.D.) is a Lecturer at the Department of Electronic and Computer Engineering, University of Nigeria. She completed her Ph.D. in fault tolerant computing in 2017, participated in several engineering education trainings and fellowships before fully venturing into the field of engineering education research in 2020. She recently secured the fifty thousand pounds (£50,000) Impact grant funding from the Royal Academy of Engineering (RAE) UK to establish the engineering education research group at the University of Nigeria Nsukka, redesign selected courses and provide capacity building for engineering staff and students. She is also a recipient of the RAE/Lloyds register foundation 2021 Safety Champions in Engineering Education (SCEE) fellowship award. During the SCEE fellowship, she was exposed to contemporary issues and practices in engineering education, while collaborating with her country team to develop strategies for leading and managing change. Ijeoma participated in a semester-long teaching fellowship at the prestigious Massachusetts Institute of Technology (MIT), USA in 2022. While at MIT, she was exposed to a variety of activities, trainings, and network of people within Boston and beyond. Specifically, she was able to complete a course on Advancing Learning Through Evidence-Based STEM Teaching.

- **Dr. Edwin A. Umoh**

Engr. Dr Edwin A. Umoh, holds the degrees of B.Eng (Electrical and Electronics Engineering) (1995), M.Eng (Electronics) (2011) from Abubakar Tafawa Balewa University, Bauchi, PhD in Electronic Engineering (Digital Electronics and Computers) (2019) from the University of Nigeria, Nsukka, and a certificate in Data Science and Machine Learning from the SACE/SETA - accredited Favour Institute, South Africa (2021). He is a member of the Nigerian Society of Engineers, Nigerian Institution of Electrical and Electronics Engineers (NIEEE), MISEE, MIAENG and a Registered Electrical Engineer with the Council for the Regulation of Engineering in Nigeria (COREN). Dr Umoh is a Senior Member of the Institute of Electrical and Electronics Engineers (IEEE) and the Institute's Control System Society (IEEE - CSS), and Consultant Networks Group (IEEE - CNG) respectively. He is a Chief Lecturer in the Department of Electrical and Electronic Engineering Technology, Federal Polytechnic, Kaura Namoda, Zamfara State. Dr Umoh has published widely in national and international journals and had attended conferences within and outside Nigeria, with more than 70 published works to his credit, in addition to best paper awards. He has co-authored and produced chapters in textbooks. Dr Umoh has chaired national conferences and chaired/co-chaired tracks on emerging technologies while participating in the technical planning committees of international conferences, particularly of the IEEE and her affiliates around Africa. He has had the honour of being the overall best Postgraduate scholar in the University of Nigeria, Nsukka during the 2018/2019 session, and was the first electrical and electronics engineer from the Nigerian Polytechnic sector to be elevated to the grade of senior membership of the IEEE, USA. Dr Umoh is a past Head of the Department of Electrical and Electronic Engineering Technology, and the current Dean of the

School of Engineering Technology. His research interests include Chaos, digital signal processing, cryptosystems, energy and environment, fuzzy modelling and control, and nonlinear electronics circuits. His hobbies include playing badminton and leisurely reading.

○ **Mrs. Ugogbola Ejiogu**

Mrs. Ugogbola Ejiogu is a Ph. D., candidate of the department of Electronics Engineering, University of Nigeria, Nsukka (UNN) and a member of Biometric Vision and Computing Laboratory, UNN. She obtained her B. Sc., in the Department of Computer Science, University of Nigeria, Nsukka, in 2010 and M. Sc., in Information Management Technology Federal University of Technology, Owerri, Imo State, Nigeria, in 2016. Since 2014, she has been a member of the Laboratory of Industrial Electronics, Power Devices & New Energy Systems (LIEPNES), University of Nigeria, Nsukka, where she is presently a Research Assistant working on Innovative Electronic access control systems as well as Additive Manufacturing (3D Printing) Technology. Ms. Ejiogu's research interest includes: Computer vision and Image Processing, Pattern Recognition, Biometrics, Machine Learning, Electronic Access Control and Additive Manufacturing systems. She is a consultant for the Foundation of Innovative Electronics and New Energy Systems (FIENES), Abuja, Nigeria. Ms. Ejiogu is a member of the Nigeria Additive Manufacturing Stakeholders Group and Women in 3D Printing (Wi3DP). Email: [ugochi.ejiogu.pg80723@unn.edu.ng](mailto:ugochi.ejiogu.pg80723@unn.edu.ng) or [ugochi.ejiogu@liepnes.net](mailto:ugochi.ejiogu@liepnes.net).

○ **Engr. Emmanuel Nnadozie**

Engr. Emmanuel C. Nnadozie, is a Lecturer at the Department of Mechatronic Engineering, Faculty of Engineering, University of Nigeria. He is currently rounding off his Ph.D in the Department of Electronic and Computer Engineering, University of Nigeria. His research interests include deep learning and computer vision, and their diverse applications. His Ph.D research is on real-time plant detection and agrochemical application using deep learning and computer vision techniques. He is a DAAD scholar and ERASMUS+ awardee. He was a Visiting Researcher at Precision Agriculture Lab, Technical University of Munich, Germany, and the Image Processing Lab, University of Valladolid, Spain.

### **10 key publications of the RG from 2019 till date**

- Ugochi U.C. Ejiogu and **Ogechukwu N. Iloanusi (2023)**, Real Time Iris Segmentation Quality Evaluation using Medoids, Pattern Recognition, 2023, 109290, ISSN 0031-3203, <https://doi.org/10.1016/j.patcog.2022.109290> (<https://www.sciencedirect.com/science/article/pii/S0031320322007695> )
- E. C. Nnadozie, O. Iloanusi, O. Ani, K. Yu (2022), Cassava Detection from UAV Images Using YOLOv5 Object Detection Model: Towards Weed Control in a Cassava Farm, doi: <https://doi.org/10.1101/2022.11.16.516748>
- E. A. Umoh and **O. N. Iloanusi, (2022)** "A Topology for Fingerprint Image Encryption based on HDWT-SVD and Hyperchaos," 2022 IEEE Nigeria 4th International Conference on Disruptive Technologies for Sustainable Development (NIGERCON), April 5 – 7, 2022, pp. 1-5, doi: 10.1109/NIGERCON54645.2022.9803161. <https://ieeexplore.ieee.org/abstract/document/9803161>

- I. J. F. Ezika, I. Ndu, T. C. Chukwueke and **O. N. Iloanusi**, (2022) "Assessing Opportunities for Self-Study and Out-of-Class Activities in a Prescriptive High Contact-Hour Engineering Curriculum," in IEEE Transactions on Education, doi: 10.1109/TE.2022.3170826. <https://ieeexplore.ieee.org/abstract/document/9772768>
- Chukwuemeka Obasi, Ijeoma Ndu, **Ogechukwu N. Iloanusi** (2020), A Framework for Internet of Things-Based Body Mass Index Estimation and Obesity Prediction, in: 2020 Int. Conf. e-Health Bioeng., October 29 - 30, 2020. Iasi, Romania: pp. 1–4. <https://ieeexplore.ieee.org/document/9280202>
- Edwin A. Umoh, **Ogechukwu N. Iloanusi**, and Uche A. Nnolim (2020), "A Novel Image Multi-Encryption Architecture based on Hybrid Keystream Sequence Interspersed with Haar Discrete Wavelet Transform," IET Image Processing, Volume 14, Issue 10, 21 August 2020, p. 2081 – 2091. [10.1049/iet-ipr.2019.0991](https://doi.org/10.1049/iet-ipr.2019.0991)
- **Ogechukwu N. Iloanusi** & Ugochi C. Ejiogu (2020) Gender classification from fused multi-fingerprint types, Information Security Journal: A Global Perspective, Volume 29, Issue 5, pages 209 – 219.. <https://doi.org/10.1080/19393555.2020.1741742>
- Edwin A. Umoh and **Ogechukwu N. Iloanusi** (2020) "Synchronized Dynamics of Hyperchaotic Flows via an Improved Finite-Time Adaptive Controller Design," International Journal of Engineering Research in Africa, May 20 2020. <https://doi.org/10.4028/www.scientific.net/jera.48.49>
- Umoh, E. A., & **Iloanusi, O. N.** (2019). Robustness analysis of a hyperchaos-based digital image encryption algorithm under noise attacks, International Journal of Engineering Research in Africa, 43, 71–83. doi: <https://www.scientific.net/JERA.43.71>
- **O. N. Iloanusi**, C. Mbah, U. Ejiogu, S. Ezichi, J. Koburu and I. J. F. Ezika (2019). Gender and Age Group Classification from Multiple Soft Biometrics Traits, International Journal of Biometrics, Int. J. Biom., Vol. 11, no. 4, pp. 409–424, 2019. Doi: <https://www.inderscienceonline.com/doi/abs/10.1504/IJBM.2019.102883>
- **Ogechukwu N. Iloanusi** and Charles Mbah (2019), "Gender Estimation from a Hybrid of Face, Upper and Full Body Images at Varying Body Poses," in 2019 18th IEEE International Conference on Machine Learning And Applications (ICMLA 2019), Boca Raton, Florida, USA, pp. 1944–1949. <https://ieeexplore.ieee.org/abstract/document/8999169>
- **O. Iloanusi**, U. Ejiogu, I. Okoye, I. J. F. Ezika, S. Ezichi, C. Osuagwu and E. Ejiogu (2019), "Voice Recognition and Gender Classification in the Context of Native Languages and Lingua Franca," in the 6th IEEE International Conference on Soft Computing & Machine Intelligence (ISCMI), Johannesburg, South Africa, November 19-20, 2019, pp. 175–179. <https://ieeexplore.ieee.org/document/9004306>

## 34. Eco-Hydrological Systems Research Group (EHSRU)

**Main Research Focus:** Soil and Water Resources Engineering.

**Others areas of research interest of the RG:** Hydrological Modelling, Irrigation and Drainage Engineering, Aquacultural and Environmental Engineering

**Title of most recent research project:** Flood forecasting and modelling of climate and land-use change impacts on runoff and sediment yield of urban and rural watersheds using SWAT

**A maximum of seven (7) other current or completed research projects**

(a) Using Artificial Intelligence in enhancing the Production, Management and Marketing of Nsukka Yellow Pepper (*Capsicum Chinense* Nsukkadrilus)

(b) Fish farm Effluent Discharge on Soil and Water bodies : Development of an interactive Design Tool for Aquaponics System.

(c) Production of Biochar for Improved Soil and Crop Yield

(d) Treatment of Leachates using Locally Sourced Waste Biomaterials as Permeable Reactive Barriers

(e) Evaluation of Sediment Transport Capacity Functions for Rill Erosion Modelling in Southeastern Nigeria

(f) Modelling the Fate and Transport of Nitrates in Groundwater due to Non-point Source Pollution from Agricultural Watersheds

**Name of the Coordinator:** Engr. Prof. Constantine C. Mbajiorgu

**UNN email address of the RG:** [ehsru.rg@unn.edu.ng](mailto:ehsru.rg@unn.edu.ng)

**UNN email address of the Coordinator:** [constantine.mbaijorgu@unn.edu.ng](mailto:constantine.mbaijorgu@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/eco-hydrological-systems-research-group/>

**Phone number of the RG:** 07038680071

**Phone number of the Coordinator:** 07038680071

**Base Faculty/Institute/Center of the RG:** Faculty of Engineering

**Department of the Coordinator:** Department of Agricultural and Bioresources Engineering

**Headshot of the Coordinator**



List and brief profiles of members (one paragraph per member) with their UNN website url to their detail CVs (hyperlinks are ok)

- Engr. Prof. C.C. Mbajiorgu: Professor and staff of Department of Agricultural and Bioresources Engineering at University of Nigeria Nsukka. Email address: [constantine.mbaijorgu@unn.edu.ng](mailto:constantine.mbaijorgu@unn.edu.ng)

MBAJIORGU, Constantine Crowner is a Professor of Soil and Water Resources Engineering in the Faculty of Engineering, University of Nigeria, Nsukka. He holds a

Ph.D. from Technical University of Nova Scotia, Canada (1992). He was the Head of Department (2003 – 2005 and 2016 - 2019) and Associate Dean (2009 – 2012). His current research is on Eco hydrological systems modelling. He has successfully supervised 12 Ph.Ds. He is currently supervising Five Ph.Ds. He was appointed a full Professor in 2008. He has taught full-time for 35 years. His email addresses are constantine.mbajiorgu@unn.edu.ng and ccmbajiorgu@gmail.com. His telephone number is 07038680071. Download CV:

[https://www.unn.edu.ng/internals/files/staff\\_CV/3754\\_MBAJIORGU\\_Constantine.pdf](https://www.unn.edu.ng/internals/files/staff_CV/3754_MBAJIORGU_Constantine.pdf)

Google Scholar <https://scholar.google.com/citations?hl=en&user=-rGm6acAAAAJ&img=Constantine+Mbajiorgu&cstart=0&pagesize=20>

ResearchGate <https://www.researchgate.net/profile/Constantine-Mbajiorgu-2>

- Engr. Prof. C.C. Anyadike . Professor Anyadike is the current Head of Department of Agricultural and Bioresources Engineering at University of Nigeria Nsukka. Anyadike, Chinenye Chukwuemeka is the first female professor and Head of Department, Agricultural and Bioresources Engineering. She pioneered the Association of Professional women Engineers of Nigeria (APWEN) Nsukka Chapter and is an advocate of Girl Child Education in STEM aimed at motivating the girls to choose science / engineering as a career. She has organized successful STEM awareness programmes, hands on workshops, capacity development programmes for the collegiate and women in Engineering. Prof. Anyadike is result oriented and passionate in activities that enhance the capacity and capability of women and youth in national development. Prof. Anyadike holds a Ph.D, Masters, and Bachelor's in Agricultural and Bioresources engineering and has been in the academic environment for over sixteen (16) years teaching, researching, mentoring and impacting positively the communities within her reach. She is a reviewer of several journal and has published several papers from her research work. Email address: [chinenye.anyadike@unn.edu.ng](mailto:chinenye.anyadike@unn.edu.ng)
- Engr. Dr. M.E Okechukwu, Senior Lecturer and staff of Department of Agricultural and Bioresources Engineering at University of Nigeria Nsukka. His research focus is in Soil and Water Resources Engineering/ Environmental Hydrology, and Irrigation and Drainage Engineering. He is a COREN registered engineer and member of many professional bodies. Email address: [michael.okechukwu@unn.edu.ng](mailto:michael.okechukwu@unn.edu.ng)
- Engr. V. Ogwo: Engr. Vintus Ogwo is a Lecturer in the Department of Agricultural and Bioresources Engineering, University of Nigeria, Nsukka and a member of Eco-Hydrological Systems Research Unit (EHSRU). He is currently a Ph.D student in the area of Soil and Water Engineering. His research interests include hydraulics engineering, hydrological modeling, soil erosion, watershed modeling and management. Email address: [vintus.ogwo@unn.edu.ng](mailto:vintus.ogwo@unn.edu.ng)
- Engr. E. I. Ugwu: An academic staff and PhD candidate in the Department of Agricultural and Bioresources Engineering at University of Nigeria Nsukka. Email address: [ella.ugwu@unn.edu.ng](mailto:ella.ugwu@unn.edu.ng)
- Engr. G.U.Chukwu: An academic staff of Department of Agricultural and Bioresources Engineering at University of Nigeria Nsukka. Email address: [godswill.chukwu@unn.edu.ng](mailto:godswill.chukwu@unn.edu.ng)
- Engr. Dr. P. A. Adegede: Dr. Adegede is a staff of Raw Materials Research & Development Council (RMRDC) Jos, Plateau State – Nigeria. Research focus is on



Soil erosion/sediment yield/streamflow modelling; Soil and water conservation; Development of expert system to serve as a decision support to address challenges of erosion and sedimentation; Watershed and water resource management; Development of Resilient Climate Change Adaptation Strategies; Natural resource management; Agro value-chain development; Digital video recording and editing.

- Engr. M. B, Kamai: An academic staff and PhD candidate of the Department of Agricultural and Bioresources Engineering Taraba State University Jalingo, Taraba State. Email address: [awoshiri@gmail.com](mailto:awoshiri@gmail.com)

### Members' Google Scholar citation links

Prof. C.C. Mbajiorgu

<https://scholar.google.com/citations?hl=en&user=-rGm6acAAAAJ&img=Constantine+Mbajiorgu&cstart=0&pagesize=20>

Dr. Okechukwu Michael Emeka

<https://scholar.google.ae/citations?user=SHCQWrYAAAAJ&hl=ja>

Prof. C.C. Mbajiorgu

<https://www.researchgate.net/profile/Constantine-Mbajiorgu-2>

Dr. Okechukwu Michael Emeka:

[Okechukwu Michael \(researchgate.net\)](https://www.researchgate.net/profile/Okechukwu-Michael)

### 10 key publications of the RG from 2019 till date

- Okechukwu M. E., Onyekwelu I., Ndulue E. E., Echiegu E. A., Asoiro F. U., Ogwo V. and Chiwetalu U. J. (2023) (in press) Groundwater Quality Evaluation in Enugu Metropolis, Southeastern Nigeria: A medical hydrogeological Approach. *Int. J. Hydrology Science and Technology*. Inderscience DOI: 10.1504/IJHST.2023.10053225 (**Thomson Reuters: Emerging Sources**)
- Okechukwu M.E., Mbajiorgu C.C. and Ugwu I. E., (2022) Crop Water Requirements of Watermelon (*Citrullus Lantus*), Cassava (*Manihot Esculenta*), Groundnut (*Arachis Hypogea*), Rice (*Oryza Sativa*) and Pineapple (*Ananas Comosus*), for Year-round Production in Southeast Nigeria. *Nigerian Journal of Hydrological Sciences (NJHS)* vol. 9. pp 96-103
- Catchment-based Management of Sediment Yield Using a Decision Support System: An Application to the Derived Savanna Ecological Zone of Nigeria. *Nigerian Journal of Hydrological Sciences* Volume 9, 2022 pp 45-60.
- Okechukwu, M. E., and C. C. Mbajiorgu (2020) Determination of Crop Coefficients and Spatial Distribution of Evapotranspiration and Net Irrigation Requirements for three Commonly Cultivated Crops in South-east Nigeria. *Irrigation and Drainage* vol. 69 issue 4, pp 743-755.doi:10.1002/Ird.2447. (**Thomson Reuters IF = 1.424**)
- Ndulue E., Onyekwelu I., Okechukwu M., Anyadike C. and Echiegu E. (2021) Sensitivity of FAO Penman-Monteith reference Evapotranspiration (ET<sub>o</sub>) to climatic variables under different climate types in Nigeria. *Journal of Water and Climate Change*. 12 (3) pp 858 – 878.doi: 10.2166/wcc.2020.200 (**Thomson Reuters IF = 2.803**)
- Okechukwu, M. E., and C. C. Mbajiorgu. (2020). Spatial distribution of rainfall and reference evapotranspiration in southeast Nigeria. *Agricultural Engineering International: CIGR Journal*, vol. 22 no. 1. pp. 1-8. (**SJR = 0.24**)

- **Ngasoh G.,** Mbajiorgu C.C, Kamai M. B., Okoro G.O. (2020). A Revisit of Rainfall Simulator as Potential Tool for Hydrological Research. Open Access Book chapter “Agrometeorology” Edited by Dr. Ram Swaroop Meena Pg 93-110 IntechOpen.
- Ndulue E., Onyekwelu I., Okechukwu, M., Anyadike, C., & Echiegu, E., (2020). Sensitivity of FAO Penman–Monteith reference evapotranspiration (ET<sub>o</sub>) to climatic variables under different climate types in Nigeria. *Journal of Water and Climate Change*.  
<https://doi.org/10.2166/wcc.2020.200>. ISSN: 2040-2244
- Ogwo, V, Ogbu, K. N. Anyadike, C. C. Nwoke, O. A. and Mbajiorgu C. C (2020). Development and Testing of a Capacitive Digital Soil Moisture Sensor with Printed Circuit Board as a Probe. *Nigerian Journal of Technology (NIJOTECH)* Vol. 39, No. 3, July 2020, Pp. 911 – 917. ISSN: 1115-8443
- Chiwetalu, U.J., C.C. Mbajiorgu and B.E. Eje (2020). Development of Phyto-Remediation Models for Lead Contaminated Soil for Potted Experiments in Enugu North L.G.A., Enugu State, Nigeria. *International Research Journal of Applied Sciences, Engineering and Technology* Vol.6, No.8.

### 35. Energy and Sustainable Research Group

#### Research Focus:

The research group focus on autonomous power intelligent control for high reliability and sustainability of electricity through hybrid renewable energy with the consideration of environmental factors. The others area includes:

- Fuel-less Generator Technologies
- Hybrid Microgrid system and Smart grid System
- Biowastes to Energy Conversion
- Distributed Generation (DG)
- Power and Machine
- Artificial Intelligent and Machine Learning
- Others

#### A maximum of seven (7) other current or completed research projects

#### Some Proposed Research Topics

The aim of Research group is to develop energy system that is accessible, affordable, high efficiency, durable and high surge capacity.

- Development of Intelligent Hybrid Renewable Power System
- Fault detection of Arc Microgrid System using Machine Learning
- Adaptive Sliding Mode control based on Grasshopper Algorithm for optimal operation of Microgrid Hybrid Energy Management.
- Forecasting and Optimization of Hybrid Smart grid Renewable Energy Performance using ANN-PSO Algorithm.
- Development of Real-Time Monitoring and Control of Smart grid System for Electricity Sustainability in Nigeria.
- Development of Intelligent Sensor Drone-based hybrid Renewable Power System
- Design and construction of 50KVA Fuel-less Generator for Rural Areas

**Research Group Coordinator:** Engr. Timothy Oluwaseun Araoye

**UNN email address of the RG:** [energysustain.research@unn.edu.ng](mailto:energysustain.research@unn.edu.ng)

**UNN webpage of RG:** <https://www.unn.edu.ng/energy-and-sustainable-research-group/>

**UNN email address of the coordinator:** [timothy.araoye@unn.edu.ng](mailto:timothy.araoye@unn.edu.ng)

**Phone number of the RG:** +2347038460543

**Phone number of the coordinator:** +2347038460543

**Base Faculty/Institute/Center of the RG:** Engineering

**Department of the Coordinator:** Mechatronic Engineering

Headshot of the coordinator (not mandatory)



**List and brief profiles of members (one paragraph per member)**

- **Engr. Timothy Oluwaseun Araoye** is a Lecturer 1 in the department of Mechatronic Engineering. He is a Registered Member of the Nigeria Society of Engineers (NSE) and Council for the Regulation of Engineering in Nigeria (COREN). His research interest includes Artificial intelligence, Machine Learning, Power System and machine, Renewable Energy, Power System Reliability, Microgrid Optimization and Control, Robotics, Modeling and Simulation, Distributed Generation, Control system, and Power Electronics. He has attended many conferences where he presented papers. He can be contacted at email: [timothy.araoye@unn.edu.ng](mailto:timothy.araoye@unn.edu.ng). Orcid ID link: 0000-0002-8405-465X, Phone Number: +2347038460543
- **Engr. Sochima Vincent Egoigwe** is a Lecturer 1 in the department of Mechatronics Engineering. His Research interest include: Control and instrumentation, Renewable Energy, Distribution Generation and Machine. He has attended conferences where he presented papers. Phone Number: +2347062951458 Email: [sochima.egoigwe@unn.edu.ng](mailto:sochima.egoigwe@unn.edu.ng) Orcid ID link: 0000-0003-4184-9011
- **Engr. Prof. Nnadi Damian Benneth** is a Professor in the Department of Electrical Engineering. His research interest include: Power System, Renewable Energy and Machine. He has attended many conferences where he presented papers. Phone Number: +2348069335370 Email: [damian.nnadi@unn.edu.ng](mailto:damian.nnadi@unn.edu.ng)
- **Engr. Chukwudozie Chukwudi Michael** is a Lecturer 11 in the department of Electronic Engineering. Phone Number: +2348037691743 Email: [chukwudi.chukwudozie@unn.edu.ng](mailto:chukwudi.chukwudozie@unn.edu.ng)
- **Engr. Nwobi Chukwdumebi Gibson** is a Graduate Assistance in the department of Electronics Engineering. Phone Number: +2347064828313 Email: [chukwdumebi.nwobi@unn.edu.ng](mailto:chukwdumebi.nwobi@unn.edu.ng)

- **Mr. Taiwo Felix Adebayo** is Assistance Lecturer in the department of Industrial Technical Education (Electrical Electronics Technology), University of Nigeria Nsukka. He holds both Bachelor and Masters in Industrial Technical Education from University of Nigeria Nsukka. He has published several Journals to his credit. His research interest includes; Artificial Intelligent, Machine Learning and Electrical sensors. He can be contacted at email: [taiwo.adebayo@unn.edu.ng](mailto:taiwo.adebayo@unn.edu.ng). Orcid ID link: 0000-0001-6167-7881

#### **Publications of the RG from 2019 till date**

- **T.O Araoye**, et al. Modeling and Optimization of Hybrid Microgrid Energy System: A Case Study of University of Abuja, Nigeria. International Journal of Power Electronics and Drive System (IJPEDS), Vol. 14, No.2, 2023. Indexed by Scopus and Scimago.
- **T.O Araoye**, et al. Modeling and Optimization of PV-diesel-biogas hybrid Microgrid renewable energy system for sustainability of electricity in a rural area. International Journal of Power Electronics and Drive System (IJPEDS), Vol.14, No.3 2023. Index by Scopus and Scimago.
- K.M Adeniyi, O.J Oladapo, **T.O Araoye**, T.Fadebayo, et al. Prediction of Heart Disease Outcomes using Machine Learning Classifier. Indonesian Journal of Electrical Engineering and Computer Science (IJEECS), Vol.30, No. 2, pp. 917-926, 2023. Index by Scopus and Scimago.
- **T.O Araoye**, et al. "Modeling, Simulation, and Optimization of Biogas-Diesel Hybrid Microgrid Renewable Energy System for Electrification in Rural Area". IET Renewable Power Generation, Vol.14, issue 16, 2021. I.F 4.55, index by Scopus, Scimago, and Thompson Reuters.

### **36. Engineering Education Research Group (EERG)**

**Main Research Focus:** To carry out cutting edge, collaborative and multidisciplinary research that will help improve instructor and student experiences in the field of engineering, while generating evidence-based knowledge and methods for sustainable engineering education interventions, practices, and policies.

#### **Other areas of research interest:**

- Engineering pedagogy
- Design, implementation and testing of active learning methods
- Curriculum assessment and development
- Engineering education stakeholder behaviours and characteristics. Stakeholders, include students, staff, government, regulatory bodies, and mentors/sponsors
- Outcome-based education
- AI-aided education and EdTech
- Diversity and Inclusion in Engineering education
- Staff development
- Engineering education policies
- Other areas of research interests that align with the focus of the group

**Most Recent Research Project:** Engineering Program for Safety and Industry (EPSI)

### **A maximum of 7 other current/completed research projects:**

- Engineering Program for Safety and Industry:
- Study of national and international engineering safety standards and specifications as well as engineering safety within undergraduate engineering curriculum in Nigeria.
- Integration of safety contents within selected courses in the Engineering faculty.
- Study of global engineering programs employing a student-centered, industry focused approach to engineering education.
- National study of engineering students' expectations and perception of current engineering education in Nigeria.

Redesign of a faculty of engineering multidisciplinary course following a student-centered and industry- focused approach

**Name of the Coordinator:** Engr. Dr. Ijeoma Ezika

**UNN email address of RG:** [engineeringeducation.rg@unn.edu.ng](mailto:engineeringeducation.rg@unn.edu.ng)

**UNN webpage of RG:** <https://www.unn.edu.ng/engineering-education-research-group-eerg/>

**UNN email address of the Coordinator:** [ijeoma.ezika@unn.edu.ng](mailto:ijeoma.ezika@unn.edu.ng)

**Current webpage of the RG (Proposed):**

**Phone number of the RG:**

**Phone Number of the Coordinator:** +2349020509849

**Base Faculty/Institute/Center:** Faculty of Engineering

**Department of the Coordinator:** Department of Electronic Engineering

### **List and brief profiles of members**

- Engr. Dr. Ijeoma Ezika (Department of Electronic Engineering) <https://www.researchgate.net/profile/Ijeoma-Ezika-Nee-Anarado-2>
- Dr. Chigbogu Ozoegwu (Department of Mechanical Engineering) - <https://www.researchgate.net/profile/Chigbogu-Ozoegwu-2>  
<https://scholar.google.com/citations?user=BWekOu4AAAAJ&hl=en>
- Engr. Prof. Ogechukwu Iloanusi (Department of Electronic Engineering)- <https://www.researchgate.net/scientific-contributions/Ogechukwu-Iloanusi-2236246225>  
<https://scholar.google.com/citations?user=y1Q1onsAAAAJ&hl=en>
- Dr. Chibueze Tobias Orji (Department of Industrial Technical Education)- <https://www.researchgate.net/profile/Chibueze-Orji-2>
- Engr. Prof. Chinenye Anyadike (Department of Agric & Bioresources Engr.)- <https://www.unn.edu.ng/internals/staff/viewProfile/NQ-->
- Dr. Chijioke Jonathan Olelewe (Dept. of Computer and Robotics Education)- <https://www.researchgate.net/profile/Olelewe-Chijioke-Jonathan>  
<https://scholar.google.com/citations?user=d6VjuRAAAAAJ>
- Engr. Nnedi Mamah (Department of Electronic Engineering) Bachelors degree in Engineering and postgraduate diploma in educational foundation

### **10 key publications of the RG from 2019 till date:**

Ezika, I.J.F, Olayemi, M., & Orji, C.T. (2022, November). Career Progression of Electronic Engineering Graduates: A Study of LinkedIn Career Profiles. *In Proceedings of the 5th Information Technology for Education and Development (ITED)*.

### 37. Industrial Production and Practice Research Group

**Main Research Focus and other areas of research interests:** The research group focuses on scientific and applied research solutions to industrial production problems and product developmental strategy. It is hoped that this research approach on real-life industrial production problems facing Nigeria will help reduce rate of factory closure and initiate plans for new factory start-ups.

As a result, the research group will undertake activities focused on:

- Design, development and testing of new product lines
- Industrial process planning, design and improvement
- Coordination and management of operations on lease basis.
- Energy in industry: supply and demand projections
- Maintenance Management
- Embodied energy of product and services assessments
- Jobbing operations, planning and execution
- Human factors/ergonomics influence in productive systems
- Condition monitoring of plants and machinery
- Life cycle assessment of industrial production systems (impact of production environment)

**Name of the RG coordinator:** Engr Professor Stephen Chijioke Nwanya

**UNN Email address of the coordinator:** [Stephen.nwanya@unn.edu.ng](mailto:Stephen.nwanya@unn.edu.ng)

**Telephone number of the coordinator:** +2348057250082

**UNN email address of RG:** [ipp-researchgroup@unn.edu.ng](mailto:ipp-researchgroup@unn.edu.ng)

**UNN webpage of RG:** <https://www.unn.edu.ng/industrial-production-and-practice-research-group/>

**Base Faculty of RG:** Engineering

**Department of the Coordinator:** Department of Mechanical Engineering

**Google scholar:** <https://scholar.google.com/citations?user=aF-XBMwAAAAJ&hl=en>

#### **List and profile of members:**

Engr Prof S. C. Nwanya

Engr Dr Paul A. Ozor

Engr Dr Patrick U. Akpan

Engr Dr Henry Ononiwu

Engr Celestine N. Achebe.

#### **Brief Profiles:**

- Nwanya, Stephen Chijioke is a Professor of Mechanical Engineering (Industrial Production Engineering & Management; Ergonomics) at the Department of Mechanical Engineering, University of Nigeria Nsukka, Nigeria. As a self-driven and career-oriented engineer, he desires to excel in professional practice and academic mentoring of youths. Stephen C. Nwanya is registered with the Council for the Regulation of Engineering in Nigeria, (COREN). The outline of this profile is as follows:

work experience, personal biodata, education, membership of professional bodies, scholarly achievements and research publications.

Website Url: <https://www.unn.edu.ng/internals/staff/viewProfile/MzQ5OQ--/5>

- Ozor Paul: Senior lecturer in the department of mechanical technology. Email: [pozor@uj.ac.za](mailto:pozor@uj.ac.za) [paul.ozor@unn.edu.ng](mailto:paul.ozor@unn.edu.ng)
- Nnaemeka Achebe: Interested in production Planning, operations management and performance measurement. Email: [naemeka.achebe@unn.edu.ng](mailto:naemeka.achebe@unn.edu.ng),
- Patrick Akpan: Dr. Patrick U. Akpan is a Senior Lecturer with the department of Mechanical Engineering and the Chairman, Faculty of Engineering Digital Education Committee, at the University of Nigeria. His responsibilities as the Faculty Committee Chairman includes: (a) creating awareness for the adaptation of digital education in the faculty, (b) training faculty and encouraging the mainstreaming of emerging solutions for digital education in teaching and learning, (c) Liaising with the University's ICT unit on the maximum use of all the available resources on digital education to the faculty. His expertise covers the design, modelling and thermal performance evaluation and optimization of conventional & renewable energy & power systems. His expertise also covers energy systems integration, audit, management, and deployment. He has a PhD in Mechanical Engineering (specializing in Power Plant Engineering) from the Eskom Energy Efficiency Centre of the University of Cape Town in South Africa, an MSc in Process Systems Engineering (specializing in Energy Systems and Thermal processes) from Cranfield University United Kingdom and a Bachelor's degree in Mechanical Engineering from the University of Nigeria. Email: [Patrick.akpan@unn.edu.ng](mailto:Patrick.akpan@unn.edu.ng)
- Ndudim Henry: Dr Ononiwu's research expertise and preference are in industrial and production engineering. Core research sub-topics include metal matrix composites, machining, production systems, processes optimization, and sustainable engineering. In these subject areas, Dr Ononiwu have been involved in research endeavours by way of independent and collaborative research, undergraduate project supervision, and his postgraduate studies. For his Doctoral research, Dr Ononiwu studied the effect of waste materials on the performance of aluminium matrix composites. He identified the need for environmental sustainability, cost reduction and improvement of the overall properties of aluminium as his research motive. Machinability studies of the resulting composites were conducted to ascertain how the reinforcements affect selected cutting indices during machining.

### **38. Laboratory of Industrial Electronics, Power Devices and New Energy Systems (LIEPNES), University of Nigeria, Nsukka, Enugu State, Nigeria.**

#### **Main research focus and other areas of research interest of the RG:**

- Industrial Electronics (Electric Drives, Parametric Sensors, Electric Vehicles, non-thermal plasma systems, etc)
- Power Devices (Solid-state transformers, Power Electronic Converters, and applications, etc)

- New Energy Systems and their Applications (Biomass Energy conversion Systems, Fuel cells and innovative battery devices, thermo-electric conversion systems, solar energy conversion systems, parametric energy conversion systems, etc)
- Emerging Technologies (Biometrics, Additive Manufacturing, Sustainable Engineering Materials)

**Title of most recent research project:** Development of Automatically fed Solid Fuel Thermochemical Gasification System

**Other current or completed research projects:**

- 100KVA Refuse-derived-fuel (RDF) Gasification Plant for Electricity Generation (UNN; March 2019)
- Design and Implementation of Automatic Belt Conveyor Systems for a Waste Treatment Plant (Ebonyi State; March 2020)
- 500KVA RDF Gasification Plant for Electricity Generation (UNN; April 2021)
- Solid-fuel Gasifier systems and applications
- Design and Implementation Inverters for Various Applications (UNN; Ongoing)
- Solar Mobile Phone Chargers (UNN; 2022)
- Load Isolators for Internal Load Shedding (UNN; 2023)
- 3D Printed Parts and Casings (UNN; Ongoing)
- PCB Making Using CNC Machine (UNN; Ongoing)
- Development of Bi-modal Biometric Systems for Prevention of Identity Theft (UNN; Ongoing)
- Design and Implementation of Industrial-scale Briquetting and Pelletizing Machines (UNN; Ongoing)

**Name of the coordinator:** Engr. Prof Emenike Chinedozi Ejiogu

**UNN email address of the rg:** liepnes.rg@unn.edu.ng

**UNN email address of the coordinator:** [emenike.ejiogu@unn.edu.ng](mailto:emenike.ejiogu@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/laboratory-of-industrial-electronics-power-devices-and-new-energy-systems-liepnes/>

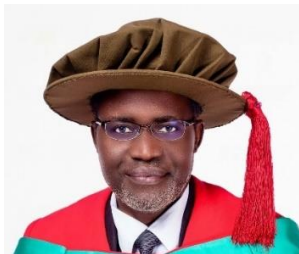
**Phone number of the RG:** +2348039233432

**Phone number of the coordinator:** +2348125864681

**Base faculty/institute/center of the RG:** Faculty of engineering

**Department of the coordinator:** Electrical engineering

**Headshot of the coordinator**





## List and brief profiles of members

**Engr. Prof. Emenike Chinedozi Ejiogu:** Engr. Prof. Emenike Chinedozi Ejiogu was educated at the Department of Electrical Engineering, University of Nigeria, Nsukka, for the degrees of B.Eng (June 1987) and M.Eng (March 1990), before proceeding for his PhD studies in April 1990, at the Department of Electronic Engineering, National Shinshu University, Nagano-city, Japan, on Japanese Government Ministry of Education Scholarship. Prof. Ejiogu obtained his PhD (Power Devices and Energy Systems), in March 1994.

He has held various positions in the Japanese academia and industrial sector, from April 1994 till present, including, Assistant Professor, Department of Electrical & Electronic Engineering, Ritsumeikan University, Kusatsu-city, Japan (Sept 1997 – Sept 2001), Chief Research and Product Development Engineer, E-Tec Co. Ltd (Oct 2001 – Dec 2005), Director of Technology, Energy & Environmental Inc, Osaka, Japan (2005-2008), Research Professor, Mirai Denchi/Micro Silitron Inc. Laboratory, High Tech Research Centre, Ritsumeikan University, Japan (2007-2013) and Executive Director (Industrial Technology and Innovation), Nigerian Chamber of Commerce and Industry in Japan (NCCIJ), Tokyo, Japan (2017-Present).

In 2018, Prof. Ejiogu led a multidisciplinary group of academic and non-academic staff of the University of Nigeria to write a proposal that merited the award of a World Bank Centre of Excellence. This research grant is worth six (6) millions USA dollars, and is the highest of such awards in the history of the University of Nigeria, Nsukka. The Centre is named the Africa Centre of Excellence for Sustainable Power and Energy Development (ACE-SPED), and Engr. Prof. Ejiogu is the pioneer Director/Centre Leader of the Centre.

In July 30<sup>th</sup>, 2022, Engr. Prof. E.C. Ejiogu was elected the Dean of the Faculty of Engineering, University of Nigeria, Nsukka, for a two-year tenure, to serve from August 2022 to July 2024. Prof. Ejiogu belongs to several professional organizations, such as the New York Academy of Sciences, USA (1996-Present), Institute of Electrical Engineers, Japan (IEEJ) (1994-Present), the European Power Electronics Association (EPE) (1997-present), the Institute of Electrical and Electronic Engineers (IEEE), USA (1992-present), Nigeria Society of Engineers (NSE) (2017-present). He is a registered Engineer of the Council for Regulation of Engineering in Nigeria (COREN), since 2011. Engr. Prof. Ejiogu has numerous publications in reputable international journals and conferences and has trained numerous Masters and PhD students, both in Japan and in Nigeria. He also has local and international patents in new energy devices and systems. His areas of expertise and research include industrial and innovative electronics, power devices and new energy systems.

### **ENGR. DR. EYA, CANDIDUS. U**

[Candidus U. Eya \(PHD\) -Google Scholar](#), [Candidus Eya -publons Scholar](#), Senior Lecturer in Electrical Engineering University of Nigeria, Nsukka, Enugu State Nigeria

**STUDY FIELD:** Power Electronics Devices and New Energy Systems in Electrical Engineering, University of Nigeria, Nsukka, Enugu State Nigeria.

**ORCID NUMBER:** <https://orcid.org/0000-0003-1362-8393>; **NATIONALITY:** Nigerian

**MOBILE PHONE NUMBER:** +234 8064293266, +234 9159483634,

**Whatsapp number:** +23490459661027

**PRESENT EMPLOYER:** University of Nigeria, Nsukka. Enugu State, Nigeria

**POSITION:** Senior Lecturer

**RESEARCH AREA OF INTERESTS:** Design, Modeling, MatLab/Simulink Simulation & Practical Implementation of Power Electronic Converters, etc

## MEMBERS GOOGLE SCHOLAR CITATION LINKS:

- Prof E.C. Ejiogu:
- Engr Dr. C.U. Eya: [Candidus U . Eya \(PHD\) - Google Scholar](#)
- Engr. Dr. C.U. Ogbuefi: [Uche C. Ogbuefi - Google Scholar](#)
- Engr G.N. Ajah: [NNAEMEKA GENESIS AJAH - Google Scholar](#)
- Engr. M.J.Mbunwe: [Muncho Mbunwe - Google Scholar](#)

## MEMBERS RESEARCH GATE LINKS:

- Prof E.C. Ejiogu: [E. C. Ejiogu \(researchgate.net\)](#)
- Engr Dr. C.U. Eya: [Candidus Eya \(researchgate.net\)](#)
- Engr. Dr. C.U. Ogbuefi: [Ogbuefi Uche \(researchgate.net\)](#)
- Engr G.N. Ajah: [Nnaemeka Genesis Ajah \(researchgate.net\)](#)
- Engr. V.O. Ajah: [Ajah Victor \(researchgate.net\)](#)
- Engr. M.J.Mbunwe: [Muncho Mbunwe \(researchgate.net\)](#)
- Engr E. T. Eke: [Eke Emmanuel \(researchgate.net\)](#)
- Engr. M. C. Wende: [Chivirter Wende \(researchgate.net\)](#)
- Mr C. D. Ugwujiem: [Chikadibia Ugwujiem \(researchgate.net\)](#)

## 10 KEY PUBLICATIONS OF THE RG FROM 2019 TILL DATE

- U-EYA, Candidus, TOBE, Chinedu, LUKE, Omeje et al. AN ENHANCED POWER DC-AC BUCK CONVERTER. DYNA Energía y Sostenibilidad, Jan.-Dec. 2023, vol. 12, no. 1, p DOI: <https://doi.org/10.6036/ES10634>
- **Candidus U. Eya**, AyodejiOlalekanSalau, Sepiribo Lucky Braide, S. B. Goyal, Victor AdewaleOwoeye and OluwafunsoOluwoleOsaroni, "Assessment of Total Harmonic Distortion in Buck-Boost DC-AC Converters using Triangular Wave and Saw-Tooth based Unipolar Modulation Schemes" WSEAS TRANSACTIONS on POWER SYSTEMS, pp.324-338, November 8, 2022, E-ISSN: 2224-350X, DOI: 10.37394/232016.2022.17.33
- U. U. C. Ejiogu and O. N. Iloanusi, "Real time iris segmentation quality evaluation using medoids," Pattern Recognition., vol. 137, no. 1, pp. 1–15, 2023, doi:10.1016/j.patcog.2022.109290.
- Ravita Lamba, Chika Maduabuchi, Emenike C. Ejiogu, A Novel Solar Thermoelectric Generator with Conical Frustum Leg Geometry, Topical Drifts in Intelligent Computing, 2022, Volume 426, ISBN: 978-981-19-0744-9
- Enesi, A. Y, Ajah, V and Ejiogu, E.C., "Air Gap Length and Maximum and Minimum Inductance of A Double-Salient Reluctance Machine (DSRM) using The Developed Analytical Algorithm", [International Journal on Electrical Engineering and Informatics](#) 14(1):1-15, March 2022, DOI:[10.15676/ijeei.2022.14.1.1](https://doi.org/10.15676/ijeei.2022.14.1.1)
- Ojo, F.A. et al, [Rice husk derived graphene and zinc oxide composite anode for high reversible capacity lithium-ion batteries](#), March 2022, [Diamond and Related Materials](#) 123(2):108885, DOI:[10.1016/j.diamond.2022.108885](https://doi.org/10.1016/j.diamond.2022.108885)
- Uma Uzubi, A.O.Ekwue and Ejiogu, E.C. "Adaptive Distance Protection Scheme for Mutually Coupled Line, October 2020, [Journal of Electrical Engineering and Technology](#) 16(3), DOI:[10.1007/s42835-020-00578-4](https://doi.org/10.1007/s42835-020-00578-4)

- Ugbuefi Uche et al, [Gasification of Organic Waste for Renewable Gas Production Systems](#), January 2021, Transactions on Engineering Technologies (pp.119-135), DOI:[10.1007/978-981-15-9209-6\\_9](#)
- Ajah, V and Ejiogu, E.C. “Solar Thermal/Electricity Paint Curing Oven”, 2019 IEEE International Conference on Sustainable Energy Technologies and Systems (ICSETS), DOI:[10.1109/ICSETS.2019.8745294](#)
- Nwokolo, E., et al, “[Performance Comparison of Sliding Mode and Instantaneous Reactive Power Theory Control Techniques for Three-Phase Active Power Filter](#)”, International Journal of Electrical and Electronic Engineering & Telecommunications Vol. 10, No. 2, March 2021

**LIST OF PATENTS/EXHIBITIONS/SHOWS/PRODUCTIONS, ETC, FROM 2019 TILL DATE:**                      **Automatically**                      **Controlled**                      **Solid-Fuel**                      **Gasifier**  
**Stove**(<https://liepnes.net/patent/automatically-controlled-solid-fuel-gasifier-stove>)

### **39. Sustainable, Clean & Emerging Energy Technologies Group (SCEET-G)**

**Main Research Focus** and other areas of research interest **of the RG:** Group focuses on research, development and improvement on existing conventional and emerging technologies towards production of clean energy. It focuses more on Renewable and clean energy research. The group is interested in R & D in clean energy technologies from laboratory research to pilot/ demonstration projects. It is concerned with reducing and eliminating obnoxious and harmful gaseous emissions from energy conversion systems thereby ensuring net zero emission. The group carries out its functions through laboratory studies, modelling and consultancy services on energy technologies. It seeks to find new energy technology concepts which when developed will form broad embodiment of research.

**Title of most recent research project:** Optimization of solar-biomass dryer for commercial postharvest agro-processing

**Name of the Coordinator:** Engr Dr E. C. Okoroigwe

**UNN email address of the RG:** [sceet-g@unn.edu.ng](mailto:sceet-g@unn.edu.ng)

**UNN email address of the Coordinator:** [edmund.okoroigwe@unn.edu.ng](mailto:edmund.okoroigwe@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/sustainable-security-and-land-development-in-nigeria-research-group-ssldnrg/>

**Phone number of the RG:** 08064879825,

**Phone number of the Coordinator:**

**Base Faculty/Institute/Center of the RG:** Faculty of Engineering

**Department of the Coordinator:** Mechanical Engineering,

#### **List of members and brief intro**

- Engr Dr Edmund Okoroigwe: Edmund Chijioke Okoroigwe is a native of Umueze II in Ehime Mbano Local Government Area of Imo State, Nigeria. I work at Department of

Mechanical Engineering, University of Nigeria, Nsukka, Enugu State. Currently, I am an Associate Professor of Mechanical Engineering, University of Nigeria, Nsukka. Email: [Edmund.okoroigwe@unn.edu.ng](mailto:Edmund.okoroigwe@unn.edu.ng), [okoroigwe@gmail.com](mailto:okoroigwe@gmail.com)

- Engr Emeka Anyaoha: [chukwuemeka.anyaoha@unn.edu.ng](mailto:chukwuemeka.anyaoha@unn.edu.ng)
- Mrs Florence Okoroigwe:
- Mrs Chinyere Okoroigwe: [Chinyere.okoroigwe@unn.edu.ng](mailto:Chinyere.okoroigwe@unn.edu.ng)
- Mrs Maria Ola Anene: [diondino1310@gmail.com](mailto:diondino1310@gmail.com)

## 10 publications

- Madhlopa, A., Okoroigwe, E., 2017. Solar Gas Turbine Systems. In: Abraham, M.A. (Ed.), Encyclopaedia of Sustainable Technologies. Elsevier, pp. 377–388. DOI: 10.1016/B978-0-12-409548-9.10150  
<https://www.sciencedirect.com/science/article/pii/B9780124095489101502>
- Florence C. Okoroigwe, Edmund C. Okoroigwe, Oluwatoyin O. Ajayi, Solomon N. Agbo, and Joseph N. Chukwuma. Photovoltaic Modules Waste Management: Ethical Issues for Developing Nations. *Energy Technol.* 2020, 2000543 (12 pages)
- Xiaochuan Li et al. Remaining service life prediction based on gray model and empirical Bayesian with applications to compressors and pumps. *Quality and Reliability Engineering Int.* 2020; vol 37, issue 2; 1–13. <https://onlinelibrary.wiley.com/journal/10991638#:~:text=Quality%20and%20Reliability%20Engineering%20International%20is%20a%20journal%20devoted%20to,methods%2C%20research%20and%20industrial%20practices>
- Edmund C. Okoroigwe and Amos Madhlopa. Advances in Biofueling of Micro Gas Turbines for Power Generation. *Energy Technol.* 2019, 1800689 (14pgs) DOI: 10.1002/ente.201800689 Online ISSN: 2194-4296,
- Olumide Ogunmodimu, Edmund C. Okoroigwe. Solar thermal electricity in Nigeria: Prospects and challenges. *Energy Policy* 128 (2019) 440–448 ISSN: 0301-4215,
- Olumide Ogunmodimu, Edmund C. Okoroigwe. Concentrating solar power technologies for solar thermal grid electricity in Nigeria: A review. *Renewable and Sustainable Energy Reviews* 90 (2018) 104–119 ISSN: 1364-0321,
- EC Okoroigwe, SO Enibe, SO Onyegegbu. Determination of Oxidation Characteristics and decomposition kinetics of some Nigerian Biomass. *Journal of Energy in Southern Africa*, 2016, 27 (3): 39 – 49. DOI: <http://dx.doi.org/10.17159/24133051/2016/v27i3a1554>
- Edmund C. Okoroigwe, Amos Madhlopa. An integrated combined cycle system driven by a solar tower: A review. *Renewable and Sustainable Energy Reviews* 57 (2016) 337–350, <https://doi.org/10.1016/j.rser.2015.12.092> ISSN: 1364-0321,
- Edmund C. Okoroigwe, Evidence C. Ndu, Florence C. Okoroigwe. Comparative evaluation of the performance of an improved solar-biomass hybrid dryer. *Journal of Energy in Southern Africa*, 2015, vol 26 (4) pp 38-51 On-line version ISSN 2413-3051,
- Edmund C Okoroigwe, Zhenglong Li, Shantanu Kelkar, Christopher Saffron, Samuel Onyegegbu (2015). Bio-oil yield potential of some tropical woody biomass. *Journal of Energy in Southern Africa*, vol 26 (2) pp 33 – 41 On-line version ISSN 2413-3051 Print version ISSN 1021-447X,

## FACULTY OF ENVIRONMENTAL STUDIES

### 40. Sustainable Human Settlements Research Group (SHSRG)

**Main research focus and other areas of research interest of RG:** Design, planning, construction and operational strategies for sustainable buildings and their surroundings. Other areas of research focus are post-occupation evaluation (POE) of residential and non-residential environments and environment-behaviour dynamics.

**Name of Coordinator:** Professor Eziyi O. Ibem

**UNN email address of the RG:** [shsrg@unn.edu.ng](mailto:shsrg@unn.edu.ng)

**UNN email address of the Coordinator:** [eziyi.ibem@unn.edu.ng](mailto:eziyi.ibem@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/sustainable-human-settlements-research-group-shsrg/>

**Phone number of the RG:** (+234) 09071993141

**Phone number of the Coordinator:** (+234) 08037779415

**Base Faculty/Institute/Center of the RG:** Faculty of Environmental Studies

**Department of the Coordinator:** Architecture

**Headshot of the Coordinator**



#### List and brief profiles of members with their UNN URL to their detail CVs

- **Prof. Eziyi O. Ibem:** Prof Eziyi O. Ibem is a registered architect and Professor of Architecture. He holds a Ph.D. in Architecture from Covenant University, Ota, Nigeria. He has been involved in grant-funded research projects both in Nigeria and South Africa. In 2012, one of his publications won the Emerald Literati Network Highly Commended Paper Award. Between July 2013 and August 2014, Eziyi was at the University of the Witwatersrand, Johannesburg, South Africa, for a postdoctoral research fellowship funded by the National Research Foundation(NRF) of South Africa. His research focus is mainly on sustainable construction procurement practices, urban green infrastructure, environment and behaviour, and post-occupancy evaluation of residential facilities. He was recently appointed to the Editorial Board of Cities and has to his credit over 150 scholarly articles in globally recognised outlets.

**UNN URL:** <https://www.unn.edu.ng/internals/staff/viewProfile/NDY4Mw--/9>.

- **Francis Ogochukwu Okeke:** Francis Ogochukwu Okeke, is a lecturer in the Department of Architecture, University of Nigeria, Enugu Campus. He holds a

Bachelor of Science (BSc) degree in Architecture with First Class Honours and a Master of Science (MSc) in Architecture with a Distinction both from the University of Nigeria, Nsukka. He has been in the field of practice of building and construction for over 8 years. He is currently a Ph.D. student with a research focus on sustainable building and construction materials. He has published several journal articles and presented scholarly papers at various local and International conferences. He also serves as a reviewer for some international journals.

- **Ejike Kingsley Anih:** Ejike Kingsley Anih is currently, a Ph.D. candidate at the Department of Architecture, University of Nigeria, Enugu Campus. He earned a Master of Science degree (M.Sc.) and a Bachelor of Science degree (B.Sc.) both in Architecture from the University of Nigeria, Nsukka. He also holds OND in Architecture from the Kaduna Polytechnic. He has over five (5) years of post B. Sc experience in private practice and Construction Management. Presently a Lecturer I at the Department of Architecture, University of Nigeria, Nsukka. His current research focus is on sustainable construction strategies, green building, sustainable architecture and energy efficiency in buildings.  
UNN URL: <https://www.unn.edu.ng/internals/staff/viewProfile/MjY2NA-->
- **Nora Andy Mbamalu:** Nora Andy Mbamalu (Nee Nkemjika) is a lecturer at the Department of Architecture, University of Nigeria, Enugu Campus. She obtained a Bachelor of Science degree in Architecture (First Class) in 2010 and a Master of Science degree also in Architecture in 2013 from the University of Nigeria, Nsukka. She has worked in several organizations before joining the services of the University of Nigeria as an academic staff. She currently runs a Ph.D. programme in Architecture in the same university. Her research interests include needs assessment, Post-Occupancy Evaluation and Sustainable design and 'needs assessment for sustainable low-income housing.  
UNN URL: <https://www.unn.edu.ng/internals/staff/viewProfile/Mjk0MQ-->.
- **Ajuluchukwu Ebuka Igwe:** Ajuluchukwu Ebuka Igwe holds B.Sc. and M. Sc degrees in Architecture from the Nnamdi Azikiwe University, Awka, Anambra State Nigeria. He is currently a Lecturer and Ph.D. student at the Department of Architecture, University of Nigeria, Enugu Campus. The areas of his research interest include sustainable architecture, landscape design, crime prevention through environmental design, and post-occupancy evaluation of residential environments. He has published a number of research articles on these areas.

#### Members Google Scholar Citation links

- Prof. Eziyi Offia Ibem  
<https://scholar.google.com/citations?user=IWZtPaQAAAAJ&hl=en>.
- Francis Ogochukwu Okeke  
<https://scholar.google.com/citations?hl=en&user=r9WNUVwAAAAJ>
- Ejike Kingsley Anih  
[https://scholar.google.com/citations?user=ls7H\\_WQAAAAJ&hl=en&oi=sra](https://scholar.google.com/citations?user=ls7H_WQAAAAJ&hl=en&oi=sra)
- Nora Andy Mbamalu
- Ajuluchukwu Ebuka Igwe  
<https://scholar.google.com/citations?hl=en&user=ilrY1skAAAAJ>

### Members Researchgate links

- Prof. Eziyi O. Ibem: <https://www.researchgate.net/profile/Eziyi-Ibem-2/unconfirmed>
- Francis Ogochukwu Okeke: <https://www.researchgate.net/profile/Francis-Okek>
- Ejike Kingsley Anih: <https://www.researchgate.net/profile/Kingsley-Ejike-Anih>
- Nora Andy Mbamalu: <https://www.researchgate.net/profile/Nkemjika-Andy>
- Ajuluchukwu Ebuka Igwe: <https://www.researchgate.net/profile/Ajuluchukwu-Igwe>

### Key publications of the RG from 2019 till date:

- Okeke, F.O., Ibem, E.O., Udeh, C.A. & Ezema, E.C. (2020). City as Habitat: Assembling the Fragile City. *Civil Engineering Journal*, 6(6),1145-1154.
- Obi, N, I., Nwalusi, D.M., Ibem, E.O. Okeke, O.F. (2021). Assessment of the Role of Greenbelts in Environmental and Socio-Economic Development of Urban Areas in Southeast Nigeria. *Civil Engineering and Architecture*,9(2),545-557.
- Obi, N.I., Obi.J S.C., Ibem, E.O., Nwalusi, D.M. Okeke, O.F. (2021) Noise Pollution in Urban Residential Environments: Evidence from Students' Hostels in Awka, Nigeria *Journal of Settlements and Spatial Planning*, 12(1), 51-62
- Okeke, F.O., Chendo, I.G.& Ibem, E.O. (2021). Imprints of security challenges on Vernacular Architecture of northern Nigeria: A study on Borno State. IOP Conf. Series: *Earth and Environmental Science* 665 (2021) 012021.

## 41. Traffic and Transportation Planning Research Group

**Main Research Focus:** Developing efficient and effective strategies towards improving traffic and transportation system in Nigeria

**Most Recent Research Project:** A survey of innovative road transport solutions in Nigeria in response to covid-19 pandemic

**Name of the Coordinator:** Dr Maxwell Umunna Nwachukwu

**UNN email address of RG:** [ttp.researchgroup@unn.edu.ng](mailto:ttp.researchgroup@unn.edu.ng)

**UNN email address of the Coordinator:** maxwell.nwachukwu@unn.edu.ng

**Current webpage of the RG:** <https://www.unn.edu.ng/traffic-and-transportation-planning-research-group-3/>

**Phone number of the RG:** 24308052812171

**Phone Number of the Coordinator:** 243080528121

**Base Faculty/Institute/Center:** Faculty of Environmental Studies

**Department of the Coordinator:** Urban and Regional Planning

**Headshot of the coordinator:**



**List and brief profiles of members (one paragraph per member) with their UNN website url to their detailed CVs (hyperlinks are OK)**

- Maxwell Umunna Nwachukwu is a senior lecturer in the department of Urban and Regional Planning of the University of Nigeria. He obtained his PhD in Urban and Regional Planning in 2009 from the University of Nigeria, specializing in traffic and transportation planning. His research focus is on traffic and transportation planning, and planning theory. He has published over 38 articles in reputable international journals. He is a registered professional planner in Nigeria and a planning consultant. <https://www.unn.edu.ng/internals/staff/viewProfile/MTM4Mg-->
- Joy Ukamaka Ogbazi is a Professor in the Department of Urban and Regional Planning, University of Nigeria, Enugu Campus. She is the first female professor of Urban and Regional Planning in Nigeria. She obtained her Bachelor of Science in Community and Regional Planning and Master of Science in International Development in 1982 and 1983 respectively from Iowa State University, Ames Iowa USA and PhD in 2008 from Urban and Regional Planning from Enugu State University of Science and Technology, Enugu. Her career in academics started in 1987 as a Lecturer II in the Department of Urban and Regional Planning, University of Nigeria, Enugu Campus. Through those years, she has served as Head of Department for two terms (1997-2003 and 2009-2013). She is a Fellow of the Nigeria Environmental Society, a Registered Town Planner, member of the Nigerian Institute of Town Planners, American Planning Association and the Global Planning Educators Interest Group. She has served as a key planning team member in the preparation of the Strategic Plan and Policy on Environment and Sustainable Development; Strategy and Policy on Women and Social Development both on a Collaborative programme of Enugu State Government and the UK Department for International Development (DFID). She has over forty five publications in peer reviewed local and international journals, books and conference proceedings. <http://www.unn.edu.ng/internals/staff/viewProfile/MTM3Nw->
- Donald Chiuba Okeke is an Associate Professor of planning with the Department of Urban and Regional Planning at the University of Nigeria. His research focus is on integration planning for the development of the urban space in Africa. He is the author of the book *Integrated Productivity in Urban Africa: Introducing the Neo-Mercantile Planning Theory* (Springer). Since 2016, he has pioneered the neo-mercantile school of thought in planning for Africa. He has several journal publications. He is a member of Golden Key International Honour Society. His election into the Society was in 2015 after his PhD program at North West University, South Africa. He is a registered professional planner in Nigeria and a planning administrator and planning consultant. <https://www.unn.edu.ng/internals/staff/viewProfile/MTgwNQ-->
- Uloma Jiburum is a lecturer in the Department of Urban and Regional Planning, University of Nigeria. She holds a Bachelor's and Master's degree in Urban and Regional Planning and a Ph.D in urban and regional planning of the University of Nigeria. Uloma Jiburum joined the services of the University of Nigeria in 2001 as an Assistant Lecturer and is now a Reader. She lectures both undergraduate and postgraduate students and has supervised over 10 postgraduate projects. Her area of specialization is environmental management with emphasis on infrastructure development, management and planning. She has over 30 publications in both



national and international journals.  
<http://www.unn.edu.ng/internals/staff/viewProfile/MTQxNA--/5>

### Members Google Scholar Citation links

- Maxwell Umunna Nwachukwu ;  
<https://scholar.google.com/citations?user=HFUiXK4AAAAJ&hl=en>
- Joy Ukamaka Ogbazi:  
<https://scholar.google.com/citations?user=t69Tyy0AAAAJ&hl=en>
- Donald Chiuba Okeke:  
<https://scholar.google.com/citations?user=HIL3zTgAAAAJ&hl=en>
- Uloma Jiburum

### Members Researchgate links

- Maxwell Umunna Nwachukwu ; <https://www.researchgate.net/profile/Maxwell-Nwachukwu-2>
- Joy Ukamaka Ogbazi: <https://www.researchgate.net/profile/Joy-Ogbazi-2>
- Donald Chiuba Okeke: <https://www.researchgate.net/profile/Donald-Okeke>
- Uloma Jiburum: <https://www.researchgate.net/profile/Uloma-Jiburum>

### 10 key publications of the RG from 2019 till date

- Okeke, D.C., Obasi , O and **Nwachukwu, M.U** (2022) Analysis of road transport response to COVID-19 pandemic in Nigeria and its policy implications. *Transportation Research Record*, 1–14, [https://doi.org/ 10.1177/03611981221092387](https://doi.org/10.1177/03611981221092387)
- A survey of innovative road transport solutions in Nigeria in response to covid-19 pandemic

**List of patents/exhibitions/shows/productions, etc from 2019 till date: None**

## FACULTY OF HEALTH SCIENCES AND TECHNOLOGY

### 42. Clinical Nursing Research Group (CNRG)

**Main Research Focus** and other areas of research interest of the RG: All aspects of clinical nursing practice. Non-communicable diseases (NCD's), Infection related disease, Trauma/injuries, Critical care, Health promotion and disease prevention; Universal Health Coverage; Healthcare administration and Management /Leadership studies

#### **Title of most recent research projects:**

- Effect of supportive-education nursing intervention on self-care management of menopausal symptoms among midlife women in Enugu
- Nurses' Perceptions and Experiences of Palliative and End-of-Life Care in a tertiary Hospital: An Interpretive Phenomenology
- Prevalence and Correlates of Psychopathological Symptoms in Pregnancy and among Child Bearing women.

- Experiences of psychoactive substance use, recovery, and rehabilitation among inmates of a Drug Rehabilitation programme in Enugu
- Prevalence of Depression and academic performance of Undergraduate students
- Prevalence of Underage Alcohol Use among secondary school students in Ebonyi State

**A maximum of seven (7) other current or completed research projects:**

- Iheanacho, P.N., Nwaneri, A. C., Nwodoh, C. O. , Okpala, P. U., (2022) Prevalence of Burnout and Associated factors among Nurses in a Nigerian Tertiary Hospital, *Lautech Journal of Nursing(LJN) 11 (July): 188-197*
- Omotola, N.J, Ozulu,C.E, Opara, H.C, Obiekwu, A.L, Mbadugha ,C.J & Madu, O.T (2022). Palliative care at UNTH, Enugu: a 5-year enrollment review. LAUTECH Journal of Nursing 5 (4) 2022.
- Madu, Obiageli T, Omotola, Ngozi J, Mbadugha, Chisom J, Nwaneri, Ada C (2023) Correlation Between Self-Esteem and Assertiveness Among Basic Nursing Students, Southeast Nigeria" *African Journal of Biomedical Research 26(2) 1-10*
- Madu, O. T., Ogbonnaya, N. P., Chikeme, P. C., Omotola, N. J. (2019) A study to assess the Learning Style Preference of Undergraduate Nursing Students in Southeast, Nigeria. *Asian Journal of Nursing Education and Research 9(2) 1-8*
- Ingwu, J. A., Idoko, C, Israel, C, Maduakolam, I & Madu, O (2019). Factors influencing non–adherence to chemotherapy: Perspective of Nigerian breast cancer survivors, *Nursing Practice Today, 6(1):41-48. Impact Factor 1.03*
- Nwaneri, A, Ingwu, J. A., Ugaliegbulem, A, Ndubuisi, I., Okpala, P., Nwodoh, C., Ubochi, N. & Chikeme, P. (2019). Perceived supportive care needs of Cancer Patients receiving treatment in two teaching hospitals in Enugu, Nigeria. *Transylvanian Review: XXVII (36)9130- 9138. Impact Factor 0.15*
- Ingwu, J. A., Nwaordu, H., Opara, H., Isreal, O. & Ogbogu, C. (2019). Caregivers' knowledge and practice toward Pressure Ulcer prevention in National Orthopedic Hospital, Enugu, Nigeria. *Nigeria Journal of Clinical Practice, 22(7)1014-1021. Impact Factor 1.15*

**Name of Coordinator:** Dr. Peace Iheanacho (Current Co-ordinator); Department of Nursing Sciences; Mental Health & Psych. Unit; [peace.iheanacho@unn.edu.ng](mailto:peace.iheanacho@unn.edu.ng) 08086774004

**UNN Email address of RG:** [ncrg@edu.ng](mailto:ncrg@edu.ng)

**UNN Email address of the coordinator:** [peace.iheanacho@unn.edu.ng](mailto:peace.iheanacho@unn.edu.ng)

**Current web page of RG:** <https://healthscs.unn.edu.ng/research/ncrg>

**Phone Number of RG:** 08125216791

**Phone number of the coordinator:** 08086774004

**Base Faculty:** Faculty of Health Sciences & Technology

**Base Department:** Department of Nursing Sciences

**Headshot of the coordinator:**

**List and brief profiles of members:**

**Members:** Prof. Ijeoma Okoronkwo.; Prof. Ada Nwaneri; Dr. Peace Iheanacho; Dr. Justin Ingwu; Dr. Hope Opara, Prof. Agnes Anarado (rtd), Mrs Obiageli Theresa Madu, Mrs Ngozi Omotola

### **Brief profiles:**

- Prof. Ijeoma, Okoronkwo. PhD, RN, FWPCNM
- Prof Ada Nwaneri PhD, RNE, RN, FWPCNM
- Dr. Peace Iheanacho, PhD, RNE, RN, FWPCNM
- Dr. Justin Ingwu- PhD Nursing, RN, FWPCNM
- Hope Opara - PhD Nursing, RNE, RN; RM;
- Mrs. Obiageli Theresa Madu RN, RNE, MSc, Nursing, (PhD, Nursing in view)
- Mrs. Ngozi Omotola- RN, RM, RNA, MSc Nursing
- Prof. Agnes Anarado. Ph.D; Nursing; RNE; RM; RN; ISNCC Global Citizen; AORTIC Nursing SIG. FWPCNM; HOD 2009-2012; 2019-2020. Foundation Chairperson CNRG/Retired.

### **Members Google Scholar Citation links:**

- Prof. Ijeoma Okoronkwo <https://scholar.google.com/citations>
- Dr. Peace Iheanacho <https://scholar.google.com/citations>
- Dr. Justin Ingwu <https://scholar.google.com/citations>
- Prof. Agnes Anarado <https://scholar.google.com/citations?user=IFc1IHAAAAAJ&hl=en>
- Mrs. Obiageli Theresa Madu <https://scholar.google.com/citations>

### **Members Researchgate links:**

- Prof Ijeoma Okoronkwo <https://www.researchgate.net/profile/Ijeoma-Okoronkwo>
- Prof Ada Nwaneri <https://www.researchgate.net/profile/Nwaneri-Ada>
- Dr. Peace Iheanacho <https://www.researchgate.net/profile/Peace-Iheanacho>
- Dr. Justin Ingwu <https://www.researchgate.net/profile/Justin-Ingwu>
- Dr. Hope Opara <https://www.researchgate.net/profile/Opara-Hope-2>
- Mrs. Obiageli Theresa Madu <https://www.researchgate.net/scientific-contributions/O-T-Madu-2157344299>
- Agnes Anarado - <https://www.researchgate.net/profile/Agnes-Anarado/publications>
- Mrs. Ngozi Omotola <https://www.researchgate.net/profile/Ngozi-Omotola>

### **10 key publications of RG from 2019 till date:**

- [Chijioke O Nwodoh et al](#) (2022). A modified Delphi consensus on generic indicators for a low- and middle-income country's quality nursing care measurement. Nursing Open. doi:10.1002/nop2.1255.
- Chinenye Ubah, Ada C Nwaneri, Agnes N Anarado, Peace N Iheanacho, Linda C Odikpo (2022). Perceived Barriers to Cervical Cancer Screening Uptake among Women of an Urban Community in South-Eastern Nigeria. Available from: <https://www.researchgate.net/publication/361616646>
- Opara HC, Iheanacho PN, Nebo B, Ingwu JA, Anetekhai CJ, Anarado AN. Factors affecting adherence to anti-retroviral therapy among women attending HIV clinic of a tertiary health institution in South Eastern, Nigeria. Afri Health Sci. 2022; 22(1):456-64. <https://dx.doi.org/10.4314/ahs.v22i1.54>
- Agnes Anarado, Hope Opara, Chisom Mbadugha, May Ulunma Obiora, Chizoma Millicent Ndikom, Maryam Adebisi Hassan. (2021). COVID-19 and psycho-social nursing care challenges of patients with childhood cancer and their families in Nigeria:

A nursing perspective In Ecancer Special Issue, December 2021 Oncology Nursing in the Global South during COVID-19; Supplement.

- Perpetua O. U. Okpuruka, Agnes N. Anarado, Eunice Nwonu , Anthonia Chinweuba , Ngozi P. Ogbonnaya, Hope C. Opara, Chinenye J. Anetekhai. (2019); Health-related Quality of Life (HRQOL) of Patients with Type 2 Diabetes Mellitus and People without Diabetes at a Tertiary Hospital in Port-Harcourt, Rivers State, Nigeria.
- Ingwu J.A, Efekalam, J, Nwaneri, A, Ohaeri, M (2019). Perception towards mandatory continuing professional development programme among nurses working at University of Nigeria Teaching Hospital, Enugu - Nigeria. *International Journal of Africa Nursing Science*, 11(2019) 100169 PP 1-7.
- Ingwu J. A, Anarado, A, Chiamaka, O and Kotoye, C (2020). Emotional Experiences of Mothers of Newborn admitted to the Newborn Special Care Unit at University of Nigeria Teaching Hospital, Enugu State – Nigeria. *International Medical Journal*, 24(3) Pp 411-420.
- Ingwu, J.A, Anikwe, H.O, Anehkhati, C, Opara, H, Okpala, P and Agba, M (2022) Knowledge, Attitude and Acceptance of Amputation among Amputee Patients admitted in National Orthopaedic Hospital Enugu - Nigeria. *International Journal of Health Sciences*.659, 2115-2126.
- Opara H et al (2022). Nurses perceived challenges in the management of hospitalized cancer patients in a comprehensive Cancer centre in Southeastern Nigeria. *Asian Pacific Journal of Cancer Prevention* (In Print).
- Iheanacho, P.N et al (2022). Nurses' Perceived Challenges in the Management of Hospitalized Cancer Patients in a Comprehensive Cancer Center in Southeastern Nigeria *Asian Pac J Cancer Prev*, 23 (10), 3587-3593

### 43. Global population health (GPH) research group

**Main Research Focus:** Development, testing and implementation of community-based complex health interventions for the improvement of the health of the world's most vulnerable population groups.

**Other areas of research interest:** health inequalities, health behaviour change, disability, chronic pain, chronic disease, community-based rehabilitation, health services and policy, public health, global health.

**Most recent research project:** Testing the Good Back Programme amongst black ethnic minority groups with chronic low back pain: a feasibility randomised controlled trial.

**Maximum of seven (7) other current or completed research projects:**

- Biomechanical and psychosocial predictors of a current episode of low back pain in Nigeria.
- The occupational biopsychosocial factors associated with neck pain intensity, neck disability and work-related disability in Nigeria.
- The role of frontline physiotherapists in the management of the COVID-19 pandemic in Nigeria.
- Community-based non-pharmacological interventions for pregnant women with gestational diabetes mellitus: a systematic review.

- Community-based non-pharmacological interventions for improving pain, disability, and quality of life in pregnant women with musculoskeletal conditions: a systematic review
- Community-based non-pharmacological interventions for pregnant women with modifiable risk factors for pre-eclampsia: a systematic review
- Surviving stroke in rural Nigeria: a qualitative investigation

**Name of the coordinator:** Dr Chinonso Nwamaka Igwesi-Chidobe

**UNN email address of the coordinator:** chinonso.chidobe@unn.edu.ng

**Current webpage of the RG:** <https://www.unn.edu.ng/global-population-health-gph-research-group/>

**Phone number of the coordinator:** +2349090088221

**Base Faculty/Institute /Centre of the RG:** Health Sciences and Technology

**Department of the coordinator:** Medial Rehabilitation

**Headshot of the coordinator**



**Members**                      **Google**                      **Scholar**                      **Citation**                      **links:**  
<https://scholar.google.com/citations?user=lm9ctycAAAAJ&hl=en&oi=ao>

**Members Research gate links:** <https://www.researchgate.net/profile/Chinonso-Igwesi-Chidobe>

**Key publications of the RG from 2019 till date:**

- Igwesi-Chidobe CN et al. Community-based non-pharmacological interventions for pregnant women with gestational diabetes mellitus: a systematic review. BMC Women's Health. 2022 Dec;22(1):1-37.
- Igwesi-Chidobe CN, Anyaene C, Akinfeleye A, Anikwe E, Gosselink R. Experiences of physiotherapists involved in front-line management of patients with COVID-19 in Nigeria: a qualitative study. BMJ open. 2022 Apr 1;12(4):e060012.
- Onyekere CP, Igwesi-Chidobe CN. Physiotherapy management of acute transverse myelitis in a pediatric patient in a Nigerian hospital: a case report. Journal of Medical Case Reports. 2022 Dec;16(1):1-9.
- Onyekere CP, Emmanuel GN, Ozumba BC, Igwesi-Chidobe CN. Minimal-contact physical interventions for pregnant women with musculoskeletal disorders: a systematic review of randomised and non-randomised clinical trials. Journal of Obstetrics and Gynaecology. 2022 Aug 18;42(6):1679-92.

**List of patents/exhibitions/shows/productions, etc from 2019 till date:**

- 2020 Nature Research Award for driving global impact.
- Keynote speaker, 2021 back and neck pain forum – international

#### 44. Health Promotion, Molecular Therapy and Rehabilitation Initiative

**Main Research Focus of the RG:** Quantitative and qualitative studies on knowledge, attitude and preventive practices of people on different health conditions in Nigeria; determining the effects of different medical equipment and procedures on physiological and biochemical parameters in man and animals; determining the effects of herbal and natural substances in our environment on physiological and biochemical parameters in man and animals.

**Title of most recent research project:**

- Effects of eight weeks aerobic exercise programme on C-reactive protein, immunity status and lipid profile of type 2 diabetes patients in University of Nigeria Teaching Hospital, Enugu

**Seven other current or completed research projects:**

- Cardiopulmonary function, Quality of life, Musculoskeletal pain and Serum Lead level among Welders in Enugu, Nigeria
- Retrospective review of the Presentation of Erb;s Palsy as seen in a tertiary Hospital in Southeastern Nigeria
- Transcutaneous electrical nerve stimulation effects on pain-intensity and endogenous opioids levels among chronic low-back pain patients: A randomised controlled trial.
- Knowledge, attitude and adherence to standard precautions among frontline clinical physiotherapists during the COVID-19 pandemic: a cross-sectional survey.
- Physical Activity Level and Factors Affecting Exercise Participation among Nigerian Adults with and Without Diabetes.
- Effects of long time kolaviron administration on blood glucose level among apparently healthy sedentary albino wistar rats.
- Effects of a single bout interval aerobic exercise on blood glucose level in type 2 diabetes mellitus patients.

**Name of the Coordinator:** Dr Ezema, Charles Ikechukwu

**UNN email address of the RG:** [hpmtri@unn.edu.ng](mailto:hpmtri@unn.edu.ng)

**UNN email address of the coordinator:** [charles.ezema@unn.edu.ng](mailto:charles.ezema@unn.edu.ng)

**Current webpage of the RG:** <http://www.hpmtri.org>

**Phone number of the RG:** +2348037494795

**Phone number of the coordinator:** +2348037494795

**Base Faculty/Institute/Center of the RG:** Faculty of Health Sciences and Technology, University of Nigeria, Enugu Campus.

**Department of the Coordinator:** Department of Medical Rehabilitation

**Headshot of the coordinator**



## List and brief profile of members with UNN websites and URL to detailed CVs

- Prof. Ezema, Charles Ikechukwu. I am a Professor of Neurological Physiotherapy, University of Nigeria, Nsukka (UNN) from 1<sup>st</sup> October, 2021. I hold Ph.D in Exercise Physiology, Ebonyi State University (2015) and Ph.D in Neurological Physiotherapy, UNN (2014). I am the Associate Dean, Faculty of Health Sciences and Technology, UNN (1<sup>st</sup> August, 2022 to Date). I was Head, Department of Medical Rehabilitation, UNEC (2017-2019), Head Department of Physiotherapy, Gregory University, Uturu, Abia State 1<sup>st</sup> August 20,19 to December, 2022  
Publication archive: <http://www.researchgate.net/profile/Ezema-Charles-Ikechukwu/research>.  
Citation profile: <http://www.google scholar.com/citationsEzema-Charles-Ikechukwu>  
My research interest includes studies on Neurological and Orthopaedic conditions such as stroke, cerebral palsy, spinal cord injuries, spondylosis, arthritis etc.; electrical stimulation and exercises.  
My professional skills are: rehabilitation and physiotherapy procedures and practice. project, dissertation and thesis supervision in Medical Rehabilitation, University of Nigeria, Nsukka (UNN) and mentorship of junior academics.  
I have supervised six Masters students and over 100 undergraduate students and have taught full time for 17 years. My email is [charles.ezema@unn.edu.ng](mailto:charles.ezema@unn.edu.ng) and phone numbers 08037494795, 09080119094 (WhatsApp)
- Mrs Charity Amarachukwu Nkechi  
I am a physiotherapist with Bachelor of Medical Rehabilitation, University of Nigeria, Nsukka. I also have PGD and M.Sc degrees from the department of Health Administration and Management, University of Nigeria, Enugu Campus. I am currently a Ph.D student in the department of Health Administration and Management, University of Nigeria, Enugu Campus. My research interest is on women's health physiotherapy, sickle cell disorder, health economics and policy. I am an assistant director of Physiotherapy with the department of Physiotherapy, University of Nigeria Teaching Hospital, Ituku Ozalla, Enugu state.  
My email is [charityamarachukwu@unth.edu.ng](mailto:charityamarachukwu@unth.edu.ng) and phone number 08037844949
- **CHIOMA VICTORIA NWACHUKWU**  
Chioma Victoria Nwachukwu is a lecturer in the Department of Physiology, College of Medicine, University of Nigeria. She graduated as a medical doctor from the College of Medicine, University of Nigeria. Since graduation, she has continued to explore her interests and gain experience in Clinical Medicine, Research, Leadership, Volunteerism, and Teaching. Her current research interests lie in electrophysiology, spinal neuronal networks, spinal cord injury, and motor/autonomic function recovery; rehabilitative strategies like spinal electrical stimulation; chronic diseases; determinants of health-related quality of life; and health promotion. She is finishing her master's program at the Spinal Cord Research Centre, Rady Faculty of Health Sciences, University of Manitoba, Canada. She has co-authored several peer-reviewed articles and received numerous awards and recognitions, including studentships, travel awards, and awards of excellence at home and abroad. Researchgate link: <https://www.researchgate.net/profile/Chioma-Nwachukwu>

- **PROFILE OF DR CANICE CHUKWUDI ANYACHUKWU**

Sex: Male

Department: Medical Rehabilitation, faculty of Health Sciences and Technology, College of Medicine, University of Nigeria, Enugu campus (UNEC).

Rank: Senior Lecturer Consultant Physiotherapist Orthopedics and Sports Physiotherapist/Men's Health Head, Department of Medical Rehabilitation (2021-2023)

PROFESSIONAL MEMBERSHIP: Nigerian Society of Physiotherapy

Nigerian Neuroscience Society of Nigeria

National President Society for Quality Assurance in Nigeria (2021-2023)

BOT and Member Prostate Diseases Research Foundation

Secretary-General: Prostate Diseases Research Foundation

Chairperson, Molecular Pathology Institute Human Health Research Ethics

Committee (MPIHREC) CEO/MD/Health Consultant CANDID Consult and Research Development Nigeria Limited

Areas of research Interest: Traumatology/Orthopaedics, Manipulative Therapy, Sports Medicine, Sports Injuries Management, Soft tissue injuries, Spinal Cord Injuries Management, Ergonomics, Industrial Physiotherapy Men's Health

ORCHID ID: 0000-0002-6584-5798

#### **Members Researchgate**

- Prof Ezema, Charles Ikechukwu: <http://www.researchgate.net/profile/Ezema-Charles-Ikechukwu/research>.
- Mrs Amarachukwu Charity N. <http://www.researchgate.net/profile/Amarachukwu-Charity-Nkechi>
- Mrs Chiloma Victoria Nwachukwu <https://www.researchgate.net/profile/Chioma-Nwachukwu>
- Dr Pastor Canice Chukwudi Anyachukwu  
<https://www.researchgate.net/profile/Canice-Anyachukwu>  
<https://www.researchgate.net/profile/>

#### **Members Google Scholar**

- Citation profile: <http://www.google scholar.com/citations/Ezema-Charles-Ikechukwu>
- <http://www.google scholar.com/citations//Amarachukwu-Charity-Nkechi>  
<http://www.google scholar.com/citations//Chioma-Nwachukwu>
- <http://www.google scholar.com/citations/Canice-Anyachukwu>

#### **Ten key publications of the research group from 2019 to date**

- C.I Ezema et al. (2022) Cardiopulmonary function, Quality of life, Musculoskeletal pain and Serum Lead level among Welders in Enugu, Nigeria *International Journal of Environment, Agriculture and Biotechnology*7 (4):185-199.
- Anyachukwu, Canice Chukwudi et al (2022) Retrospective review of the Presentation of Erb;s Palsy as seen in a tertiary Hospital in South-eastern Nigeria Techniques in Neurosurgery and Neurology <Http://crimsoppublishers.com..Doi:10.31031/YNN.2022.04.000599>.
- Ezema CIO et al (2022) Transcutaneous electrical nerve stimulation effects on pain-intensity and endogenous opioids levels among chronic low-back pain patients: A



randomised controlled trial. *Journal of Back and Musculoskeletal Rehabilitation*.  
www.ent.iospress.com DOI 10.3233/BMR-210146

- Charles I. Ezema et al (2021) Knowledge, attitude and adherence to standard precautions among frontline clinical physiotherapists during the COVID-19 pandemic: a cross-sectional survey. **European Journal of Physiotherapy** <https://www.tandfonline.com/doi/abs/10.1080/21679169.2021.2020898?journalCode=iejp20>
- Ezema Charles, Ukwuoma Maryiane, Nweke Martins, Ojinaka Ginikachi, (2021) Association of stroke risk factors with personality and discrete emotions. *Scientific African*, 13. <https://doi.org/10.1016./j.sciaf>
- Augustine Amaeze Amaeze et al. Analysis of Method of Axillary Crutch Measurement. *Journal of Advances in Medicine and Medical Research*, 2021, 33 (13): 117-123.
- C.I Ezema et al. et al. Physical Activity Level and Factors Affecting Exercise Participation among Nigerian Adults with and Without Diabetes. *EMJ*. 2021;6[1]:
- C.I Ezema et al. Effects of single bout and short-term aerobic exercise on C-Reactive protein in Type-2 diabetes patients: A pilot study. *Ghana Journal of Science*, 2020, 61(1) Ghana J. Sci. 61 (1): 31 – 42
- C.I Ezema et al. Effects of an aerobic exercise programme on blood glucose level, cardiovascular parameters, peripheral oxygen saturation, and body mass index among Southern Nigerians with type 2 diabetes mellitus, undergoing concurrentsulfonylurea and metformintreatment. *Malaysian journal of medical science*, 2019, 26 (5): 88-97.
- **Ezema, C.I et al.** Effects of long time kolaviron administration on blood glucose level among apparently healthy sedentary albino wistar rats. *International Journal of Herbs and Pharmacological research*, 2019, 8(2): 20-24.

## FACULTY OF LAW

### 45. Corporate Law Research Team

**Main Research Focus:** Corporate Law

**Other areas of research interest:** Securities Law, Energy law

**Most recent research project:** Appraisal of the Impacts of Changes in Securities laws on Capital Market Development in Nigeria from 1999 to 2019

**Maximum of seven (7) other current or completed research projects:**

**Name of the coordinator:** Prof. Edith Ogonnaya Nwosu

**UNN email address of the RG:** [corporatelaw.research@unn.edu.ng](mailto:corporatelaw.research@unn.edu.ng)

**UNN email address of the coordinator:** [edith.nwosu@unn.edu.ng](mailto:edith.nwosu@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/corporate-law-research-team/>

**Phone number of the RG:** +2348038042962

**Phone number of the coordinator:** +234 803 341 4660

**Base Faculty/Institute /Centre of the RG:** Faculty of Law

**Department of the coordinator:** Property Law

## Headshot of the coordinator



### List and brief profiles of members:

- PROFESSOR EDITH OGONNAYA NWOSU, LLB, LLM, PhD, BL, FCARB  
Professor Edith Nwosu graduated from the Faculty Law, University of Nigeria in 1992 with a Second Class Honours (Upper Division). She made a First Class at the Nigerian Law School in the 1993 Bar Examinations and obtained four academic prizes for excellent performance including the first prize in Company Law and Commercial Practice and the first prize in Criminal Procedure. Edith obtained Masters and Doctorate degrees in Law from the same Faculty. She joined the Faculty in 1994 and was appointed a Professor in 2011. She teaches Company and Partnership Law and Law of Energy and Natural Resources at the undergraduate level. Edith also teaches Company Law at the postgraduate level. She has written extensively in her subject areas.  
<https://www.unn.edu.ng/internals/staff/viewProfile/MTg4Nw-->
- DR UCHECHUKWU NWOKE, LLB, LLM, PHD, BL graduated from the Faculty of Law, University of Nigeria (Enugu Campus) with a Second Class Honours (Upper Division). He then proceeded to the Nigerian Law School where he also graduated with a Second Class Honours (Upper Division). He obtained an LLM in the Law of International Trade from the University of Wales (United Kingdom) and a PhD in Law from Kent Law School, University of Kent, Canterbury (specializing in Corporate Theory and Governance, Neoliberal Theory and Corporate Social Responsibility).  
<https://www.unn.edu.ng/internals/staff/viewProfile/NDYyOQ-->
- COLLINS CHIKODILI AJIBO, LLB, LLM, PhD, BL is a law graduate of the University of Nigeria Nsukka. After a brief law practice in Abuja, he proceeded to the University of Manchester, United Kingdom where he obtained both the LLM and PhD in International Commercial/Business Law. Currently, Dr Ajobo teaches Company and Partnership Law and Law of Banking and Insurance at the undergraduate level, and International Economic Law at the postgraduate level. He has published in both national and international journals. <https://uneclaw.ng/lecturers/collins-ajibo>
- IKENNA CHRISTIAN OKOLI, LLB, LLM, BL. He graduated from the Faculty of Law, University of Nigeria, Nsukka (UNN) in 2016 as the best graduating male student, and was called to the Nigerian Bar in 2017. He completed his Master of Laws programme in Faculty of Law, UNN, with a record 5.0/5.0. He currently teaches Company and Partnership Law and Law of Taxation at the undergraduate level.  
<https://uneclaw.ng/lecturers/ikenna-c-okoli>

### Members Google Scholar Citation links:

- PROFESSOR EDITH OGONNAYA NWOSU  
<https://scholar.google.com/citations?user=VBvSNSAAAAAJ&hl=en>
- COLLINS CHIKODILI AJIBO  
<https://scholar.google.com/citations?user=s0Fx9OkAAAAAJ&hl=en>

### Members Research gate links:

- PROFESSOR EDITH OGONNAYA NWOSU  
<https://www.researchgate.net/profile/Edith-Nwosu>
- DR UCHECHUKWU NWOKE  
<https://www.researchgate.net/profile/Uchechukwu-Nwoke>
- COLLINS CHIKODILI AJIBO  
<https://scholar.google.com/citations?user=s0Fx9OkAAAAAJ&hl=en>
- IKENNA CHRISTIAN OKOLI: <https://www.researchgate.net/profile/Ikenna-Okoli>

### 10 key publications of the RG from 2019 till date:

- “Enforcement of Minority Shareholders Rights in Nigeria, Persistent Barriers and Prospect for Solution”, *International Commercial and Company Law Review* 7, 407-416.
- “Promoting Nigerian Capital Market Development through the Protection of minority Shareholders: A Re-Assessment of Enforcement Pathways” *Commonwealth Law Bulletin*, 2020, Vol. 0, No. 0, 1–18.
- “Mainstreaming Whistleblowing as a Regulatory Mechanism against Fraud in Nigeria’s Capital Market” *Journal of Financial Crime*, 1359-0790.
- “Legal and Institutional Frameworks for Capital Market Regulation in Nigeria: Recasting the Agendas beyond Compliance-based Regulation”, *Journal of Financial Crime* 28(2) 448-463.

## FACULTY OF MEDICAL SCIENCES

### 46. Center For Translation and Implementation Research (CTAIR)

**Main research focus:** Translational, Dissemination and Implementation research in all fields of biomedical science, engineering and the social sciences; Training in research administration; Grant management

**Other areas of research interest:**

**Title of most recent project:**

**Name of coordinator:** Prof. Echezona Ezeanolue

UNN email address of the RG: [ctair@unn.edu.ng](mailto:ctair@unn.edu.ng)

**UNN webpage of RG:** <https://www.unn.edu.ng/center-for-translation-and-implementation-research/>

**UNN Email address of the coordinator:** [echezona.ezeanolue@unn.edu.ng](mailto:echezona.ezeanolue@unn.edu.ng)

**Current webpage:** [www.ctair.org](http://www.ctair.org)

**Phone number of the RG:** +234807739972

**Phone number of the coordinator:**

**Base faculty of the RG: College of Medicine**

**Department of the coordinator:** Department of Zoology and Environmental Biology

**Headshot of coordinator:**



**List and brief profile of Members:**

- Prof. Echezona Ezeanolue (Executive Director): Echezona Ezeanolue, MD, MPH is a clinician-scientist whose research focuses on implementation science to enhance effectiveness and quality of health services. He has broad experience in clinical research, implementation research, program implementation, program evaluation and effectiveness research.
- Prof. Chima Onoka (Associate Director)
- Prof. Ernest Onwasigwe (Member, Board of Trustees)
- Prof. Uchenna Nwagha (Chair, Advisory Board)
- Prof. Hyginus Ezegwui (Member, Advisory Board)
- Prof. Obinna Onodugo (Member, Advisory Board)
- Dr. Tonia C. Onyeka (Program Manager): Tonia Onyeka is a Physician Anaesthetist, Pain Medicine and Palliative Medicine doctor. Employed by the University of Nigeria as an Associate Professor, she is the immediate past Head, Department of Anaesthesia as well as the founding and current Head of the Pain and Palliative Care Unit. She is a member of several professional bodies including Technical Expert Group (TEG) that produced first-ever pain management guidelines for Nigerian healthcare professionals.
- Dr. Izuchukwu Frank Obi (Assistant Director for Clinical Research): He is doing his postgraduate residency training in Community medicine and a skilled researcher.
- Dr. Ijeoma Itanyi (Senior Research Fellow): She is a Nigerian and a US-trained clinician-scientist, an Assistant Professor of Preventive Medicine and Epidemiology, and the Coordinator of the Research Management Office at the College of Medicine, University of Nigeria Nsukka (UNN).
- Prof. Chibuike Chigbu (Senior Research Fellow)
- Prof. Cyril Dim (Senior Research Fellow)
- Dr. Nwamaka Lasebikan (Research Fellow)

**Members Google Scholar/Pubmed Citation links:**

- Prof. Echezona Ezeanolue: <https://scholar.google.com/citations?user=IU9HogwAAAAJ&hl=en>
- Prof. Chima Onoka: <https://scholar.google.co.uk/citations?user=SrlzmOgAAAAJ&hl=en>

- Prof. Ernest Onwasigwe: <https://scholar.google.com/citations?user=K1y-OogAAAAJ&hl=en>
- Prof. Uchenna Nwagha: <https://scholar.google.com/citations?user=z63wB0sAAAAJ&hl=en>
- Prof. Hyginus Ezegwui: <https://scholar.google.com/citations?user=MwBtDZMAAAAJ&hl=en>
- Dr. Tonia C. Onyeka: <https://scholar.google.com/citations?user=Fm7YG2gAAAAJ&hl=en>
- Prof. Chibuike Chigbu: [https://scholar.google.com/citations?user=2YNe\\_-AAAAAJ&hl=en](https://scholar.google.com/citations?user=2YNe_-AAAAAJ&hl=en)
- Prof. Cyril Dim: [https://scholar.google.com/citations?hl=en&user=kWab7wAAAAJ&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.com/citations?hl=en&user=kWab7wAAAAJ&view_op=list_works&sortby=pubdate)
- Dr. Frank Obi: <https://scholar.google.com/citations?hl=en&user=ng9n6hoAAAAJ>
- Dr. Ijeoma U. Itanyi: <https://pubmed.ncbi.nlm.nih.gov/?term=itanyi+>

#### Members ResearchGate links:

- Prof Echezona Ezeanolue: <https://www.researchgate.net/profile/Echezona-Ezeanolue>
- Prof Obinna Onodugo: <https://www.researchgate.net/profile/Obinna-Onodugo>
- Dr. Tonia Onyeka: <https://www.researchgate.net/profile/Tonia-Onyeka>
- Dr. Ijeoma Itanyi: <https://www.researchgate.net/profile/Ijeoma-Itanyi-2>

#### Key publications:

- Olawepo JO, Ezeanolue EE, Ekenna A, Ogunsola OO, Itanyi IU, Jedy-Agba E, d.Egbo E, Onwuchekwa C, Ezeonu A, Ajibola A, Olakunde BO, Majekodunmi O, Ogidi AG, Chukwuorji J, Lasebikan N, Dakum P, Okonkwo P, Oyeledun B, Oko J, Khamofu H, Ikpeazu A, Nwokwu UE, Aliyu G, Shittu O, Rositch AF, Powell BJ, Conserve DF, Aarons GA, Olutola A. Building a national framework for multicentre research and clinical trials: experience from the Nigeria Implementation Science Alliance. *BMJ Glob Health*. 2022 Apr;7(4): e008241. doi: 10.1136/bmjgh-2021-008241. PMID: 35450861; PMCID: PMC9024272.
- Talla C, Itanyi IU, Tsuyuki K, Stadnick N, Ogidi AG, Olakunde BO, Patel D, Oko JO, Aarons G, Onoka CA, Ezeanolue EE. Hepatitis B infection and risk factors among pregnant women and their male partners in the Baby Shower Programme in Nigeria: a cross-sectional study. *Trop Med Int Health*. 2021 Mar;26(3):316-326. doi: 10.1111/tmi.13531. Epub 2020 Dec 10. PMID: 33247862; PMCID: PMC7925376.
- Adeyemi OA, Itanyi IU, Ozigbu CE, Stadnick N, Tsuyuki K, Olayiwola O, Ogidi AG, Eze C, Aarons GA, Onoka CA, Ezeanolue EE. Sero-prevalence and determinants of Hepatitis B among a cohort of HIV-infected women of reproductive age in Nigeria. *PLoS One*. 2020 Sep 17;15(9): e0236456. doi: 10.1371/journal.pone.0236456. PMID: 32941424; PMCID: PMC7498243.
- Ezeanolue EE, Iheanacho T, Adedeji IA, Itanyi IU, Olakunde B, Patel D, Dakum P, Okonkwo P, Akinmurele T, Obiefune M, Khamofu H, Oyeledun B, Aina M, Eyo A, Oleribe O, Oko J, Olutola A, Gobir I, Aliyu MH, Aliyu G, Woelk G, Aarons G, Siberry

G, Sturke R; Nigeria Implementation Science Alliance. Opportunities and challenges to integrating mental health into HIV programs in a low- and middle-income country: insights from the Nigeria implementation science Alliance. *BMC Health Serv Res.* 2020 Sep 29;20(1):904. doi: 10.1186/s12913-020-05750-0. PMID: 32993621; PMCID: PMC7526407.

- Banigbe BF, Itanyi IU, Ofili EO, Ogidi AG, Patel D, Ezeanolue EE. High prevalence of undiagnosed hypertension among men in North Central Nigeria: Results from the Healthy Beginning Initiative. *PLoS One.* 2020 Nov 30;15(11): e0242870. doi: 10.1371/journal.pone.0242870. PMID: 33253296; PMCID: PMC7703905.
- Iheanacho T, Nduanya UC, Slinkard S, Ogidi AG, Patel D, Itanyi IU, Naeem F, Spiegelman D, Ezeanolue EE. Utilizing a church-based platform for mental health interventions: exploring the role of the clergy and the treatment preference of women with depression. *Glob Ment Health (Camb).* 2021 Feb 19;8: e5. doi: 10.1017/gmh.2021.4. PMID: 34026236; PMCID: PMC8127631.
- Montandon M et al. Improving uptake of prevention of mother-to-child HIV transmission services in Benue State, Nigeria through a faith-based congregational strategy. *PLoS One.* 2021 Dec 2;16(12): e0260694. doi: 10.1371/journal.pone.0260694. PMID: 34855849; PMCID: PMC8638953.
- Eboreime EA et al. Awareness of HIV serostatus by sex partners of women living with HIV in North-Central Nigeria: correlates and predictive analyses. *J Biosoc Sci.* 2022 Jul;54(4):572-582. doi: 10.1017/S0021932021000262. Epub 2021 Jun 24. PMID: 34162450; PMCID: PMC8702574.
- Olakunde BO et al. A systematic review and meta-analysis of the prevalence of hepatitis B virus infection among pregnant women in Nigeria. *PLoS One.* 2021 Oct 29;16(10): e0259218. doi: 10.1371/journal.pone.0259218. PMID: 34714888; PMCID: PMC8555786.
- Ezenwosu OU et al. Community based screening for sickle haemoglobin among pregnant women in Benue State, Nigeria: I-Care-to-Know, a Healthy Beginning Initiative. *BMC Pregnancy Childbirth.* 2021 Jul 8;21(1):498. doi: 10.1186/s12884-021-03974-4. PMID: 34238241; PMCID: PMC8268197.

## 47. Child and Adolescent Mental Health Research Group

**Focus:** The Child and Adolescent Mental Health research group focuses on researches bordering mainly on various aspects of child and adolescent mental health issues, including mental retardation, post-traumatic stress disorder (PTSD), autism spectrum disorders, child sexual abuse, childhood obesity, effects of attachment on child development, child abuse and neglect, families and the developmentally disabled adolescent, adolescents and internet addiction which is a newly emerging social and mental health issue among adolescents, and has attracted much attention around the world; prevalence of depression and suicide among adolescents, psychosocial impacts of conflicts, terrorism and insurgency among children and adolescents and youths in general, validation of psychometric instruments used for the assessment of child and adolescent mental health issues with a view to expanding their reliability and validity within the Nigerian context. These instruments include those that assess cognitive functions, executive functions, intelligence, verbal fluency, personality, attention

deficit/hyperactivity, autism spectrum disorders, and developmental delays, role of adverse home and school environment on child and adolescent mental health etc.

#### **Current research projects:**

- Care Giver Burden and Life Satisfaction among Adolescent Caregivers of Cancer Patients Attending the Oncology Outpatient Clinic of a Nigerian University Teaching Hospital.
- Burn Out and Psychological Distress among adolescent Caregivers of Dementia Patients Attending the Out Patient Geriatric Clinics of Two Nigerian Tertiary Health Institutions.

**Name of Coordinator:** Okwaraji Friday Esonwanne

**UNN email of the coordinator:** friday.okwaraji@unn.edu.ng

**Phone number of the coordinator:** 08030812626.

**UNN email address of RG:** camh.researchgroup@unn.edu.ng

**UNN webpage of RG:** <https://www.unn.edu.ng/child-and-adolescent-mental-health-research-group/>

#### **Members:**

- OKWARAJI FRIDAY E. Senior Lecturer/Clinical Psychologist, Department of Psychological medicine-(email: [friday.okwaraji@unn.edu.ng](mailto:friday.okwaraji@unn.edu.ng)); Coordinator.
- EKE OKECHUKWU HOPE; Clinical Psychologist/Head, Clinical psychology unit, Medical center, University of Nigeria, Nsukka,([hope.eke@unn.edu.ng](mailto:hope.eke@unn.edu.ng)) Member.
- OKORIE NKEMAKOLAM AUGUSTINE- ([augustine.okorie@unn.edu.ng](mailto:augustine.okorie@unn.edu.ng)), Clinical Psychologist, Department of Pharmacology and Toxicology, UNN. Member.

#### **10 key publications:**

- **Okwaraji FE** and Godwin C. Onyebueke (2021). A Cross Sectional Study on the Mental Health Impacts of Covid-19 Pandemic in a Sample of Nigerian Urban Dwellers. International Neuropsychiatric Disease Journal 15(4): 28-36. DOI: 10.9734/INDJ/2021/v15i430161
- **Okwaraji FE et al (2020)**. Gender, Age, Marital Status and Quality of Life in a Sample of HIV Clinic Attendees in a Nigerian Tertiary Health Institution. Journal of Medical Research 2020, 6(5):230-232,
- Godwin C. Onyebueke, **Friday E. Okwaraji** and Augustine O. Obumneme **(2020)**. Assessment of Quality of life and Depression among PLWHA receiving highly active anti-retroviral therapy at two tertiary health institutions in Enugu, South East Nigeria. The Journal of Medical Research 2020; 6(1): 20-24
- **Okwaraji FE et al (2019)** Assessment of depression and self esteem among outpatient HIV clinic attendees in a Nigerian tertiary health institution. The Journal of Medical Research 2019; 5(2): 61-64
- **Okwaraji, F.E et al (2018)**. Loneliness, Life Satisfaction and Psychological Distress among Out-Of -School Adolescents in a Nigerian Urban City. Psychology, Health and Medicine; DOI: 10.1080/13548506.2018.1476726.

- **Okwaraji, F.E et al (2018)** Locus of Control, Self Esteem and Depression in a Sample of School Going Adolescents in Two Nigerian Rural Communities. *The Journal of Medical Research*. 4(2): 106-110. DOI: 10.31254/jmr.2018.4211
- Callista U. Nduanya et al **(2018)** A cross sectional study on internet addiction, locus of control and psychological distress in a sample of Nigerian undergraduates. *The Journal of Medical Research*. 4(3): 146-150. Doi: 10.31254/jmr 2018-4308
- Godwin C. Onyebueke et al **(2018)** Assessing the psychological consequences of communal conflicts among the inhabitants of two conflict-affected communities in South East Nigeria. *The Journal of Medical Research*. 4(4): JMR-2018-4339
- **Okwaraji, F.E et al (2017)**. Psychosocial Impacts of Communal Conflicts in a Sample of Secondary School Youths from Two Conflict Communities in South East Nigeria. *Psychology, Health and Medicine*. Vol.22(5): 588-595. Doi:1080/13548506.2016.1192655.
- **Okwaraji, F.E**, Nduanya C.U, Okorie,A.N and Okechukwu, H.E **(2017)**. Personality traits, happiness and life satisfaction, in a sample of Nigerian adolescents. *The Journal of Medical Research*, 3(6): 284-289. DOI: 10.22271/23957565.2017.v3.i6.009

#### 48. Enhancing Palliative Care (EPAC) Research Group

**Main Research Focus:** Research on Pain and Symptom Management, Hospice, Adult and Paediatric Palliative care research, Survivorship care

**Areas of research interest:** Opioid analgesia, Quality of Life, Survivorship care, Paediatric Palliative Care, End-of-life Care

**Most recent research project:**

Extending Sickle Cell Disease Management: Adapting Management Recommendations to Nigerian Context (The EXTEND Study).

**Maximum of seven (7) other current or completed research projects:**

Integrating Palliative Care into Care for Women with HIV at Primary Health Centres in Nigeria (The INTERWOVEN Study)

**Name of the Coordinator:** Professor. Tonia C. Onyeka

**UNN email address of RG:** [epac.rg@unn.edu.ng](mailto:epac.rg@unn.edu.ng)

**UNN email address of the coordinator:** [tonia.onyeka@unn.edu.ng](mailto:tonia.onyeka@unn.edu.ng)

**Current webpage of the RG:** <https://www.unnepacteamunth.com>

**Phone number of the RG:** +2348063563223

**Base Faculty/Institute /Centre of the RG:** Faculty of Medical Sciences

**Department of the coordinator:** Department of Anaesthesia

**Headshot of the coordinator**





### List and brief profiles of members:

- Prof. Tonia C. Onyeka (Palliative Care Physician)
- Dr David Agom (Palliative Care Volunteer)
- Dr. Justus Onu (Palliative Care Volunteer)
- Dr. Ngozi Idemili Aronu (Palliative Care Volunteer)
- Dr. Nneka Iloanusì (Palliative Care Volunteer)
- Dr Barbara Uche (Medical Officer in Palliative Care)
- Dr Kingsley Okoye (Medical Officer in Palliative Care)
- Mrs. N. Uzoma (Palliative Care Nurse)
- Mrs Caroline Eya (Palliative Care Nurse)
- Mrs Dorothy Ekewuba (Palliative Care Nurse)
- Pharm Cajetan Alumona (Palliative Care Pharmacist)
- Uju Anyaebosi Pharm D. (Oncology & Palliative Care Pharmacist)

### Members Google Scholar Citation links:

- Dr. David Agom: <https://scholar.google.co.uk/citations?user=1cglw98AAAAJ&hl=en>
- Dr. Justus Onu: [https://scholar.google.com/citations?user=F\\_HAnSQAAAAJ&hl=en](https://scholar.google.com/citations?user=F_HAnSQAAAAJ&hl=en)
- Dr. Nneka Iloanusì: <https://scholar.google.com/citations?user=hvHIKzwAAAAJ&hl=en>

### Members ResearchGate Profiles:

- Dr. Tonia Onyeka: <https://www.researchgate.net/profile/Tonia-Onyeka>
- Dr. David Agom: <https://www.researchgate.net/profile/David-Agom>
- Dr. Justus Onu: <https://www.researchgate.net/profile/Justus-Onu>
- Dr. Nneka Iloanusì: <https://www.researchgate.net/profile/Nneka-Iloanusì>

### Key publications of the RG from 2019 till date:

- Onyeka TC, Onu JU, Agom DA. Psychosocial aspects of adult cancer patients: A scoping review of sub-Saharan Africa. *Psychooncology*. 2023 Jan;32(1):86-106. doi: 10.1002/pon.6052. Epub 2022 Oct 21. PMID: 36250212.
- Onu J et al. Psycho-behavioral responses of Nigerian health workers to an initial human-to-human transmission of the coronavirus disease. *J Public Health Afr*. 2022 May 24;13(1):1856. doi: 10.4081/jphia.2022.1856.
- Onyeka TC et al. Project OPUS: Development and evaluation of an electronic platform for pain management education of medical undergraduates in resource-limited settings. *PLoS ONE* 2020; 15(12): e0243573.
- Agom DA, Onyeka TC, Iheanacho PN, Ominyi J. Barriers to the provision and utilization of palliative care in Africa: A rapid scoping review. *Indian J Palliat Care* 2021; 27(1): 3 - 17.
- Agom DA, Ominyi J, Onyeka TC, Anyigor CN. Exploring organizational culture regarding provision and utilization of palliative care in a Nigerian context: An interpretive descriptive study. *Indian J Palliat Care* 2020;26:358-64
- Agom DA, Onyeka TC, Ominyi J, et al. An Ethnographic Study of Palliative and End-of-Life Care in a Nigerian Hospital: Impact of Education on Care Provision and Utilization. *SAGE Open*. July 2020. doi:10.1177/2158244020938700

## 49. Gynaecology Research Group

**Main focus of the RG:** Gynaecologic Oncology/Bioethics

### **Other areas of interest**

- Surgical and gynaecologic oncology
- Informed consent in gynaecologic practice
- Reproductive ethics

### **A maximum of 7 other current/completed projects**

- Treatment Induced Amenorrhoea, Premature Menopause and their consequences in Nigerian Women with Breast Cancer
- The perceptions and satisfaction of Nigerian patients on informed consent practices in clinical settings in Nigeria

**Name of the coordinator:** Professor Ezeome Ijeoma Victoria.

UNN email address of the coordinator: [ijeoma.ezeome@unn.edu.ng](mailto:ijeoma.ezeome@unn.edu.ng),

**UNN email address of RG:** [gynaecology.rg@unn.edu.ng](mailto:gynaecology.rg@unn.edu.ng)

**UNN webpage of RG:** <https://www.unn.edu.ng/gynaecology-research-group/>

**Phone number of the coordinator:** 08058124721

**Base faculty of the RG:** Faculty of medical sciences

**Department of the coordinator:** Department of Obstetrics/Gynaecology, University of Nigeria Ituku-Ozalla Campus Enugu

### **List and brief profiles of members**

- Prof Ezeome Ijeoma Victoria: She is a Senior Lecturer in the department of Obstetrics & Gynaecology of the Faculty of Medical Sciences, College of Medicine, Ituku-Ozalla, Campus Enugu of the University of Nigeria, and a Honorary Consultant Obstetrician Gynaecologist with special interest in Gynaecologic oncology. She has been managing gynaecologic cancer patients for more than a decade. She is also a Bioethicist with special interest in Reproductive and Feminine ethics. She has over 30 original research articles covering gynaecology, reproductive & research ethics, as well as general obstetrics and gynaecology in renowned peer reviewed journals
- Dr Nwankwo Theophilus Ogochukwu: Dr Nwankwo Theophilus Ogochukwu is a Senior Lecturer in the department of Obstetrics & Gynaecology of the Faculty of Medical Sciences, College of Medicine, Ituku-Ozalla. Campus Enugu of the University of Nigeria, and a Honorary Consultant Obstetrician Gynaecologist with special interest in Gynaecology, infertility, labour management, gynaecological infections and HIV in pregnancy. He has been managing cancer patients for the past decade and has over 40 original well researched articles in renowned peer reviewed journals covering gynaecology, as well as general obstetrics and gynaecology. He has been a PMTCT consultant in the PEPFAR program for more than 6 years and involved in cervical cancer prevention programs in Nigeria.
- Dr Onwuka, Chidinma Ifechi: She is a Senior Lecturer in the department of Obstetrics and Gynaecology of the Faculty of Medical Sciences, College of Medicine, Ituku-Ozalla Campus, Enugu of the University of Nigeria, and a Honorary Consultant

Obstetrician Gynaecologist in the University of Nigeria Teaching Hospital Enugu, with special interest in Feto-Maternal Medicine. She has over 25 original well researched articles in renowned peer reviewed journals.

- Prof Ezeome Emmanuel Rapuluchukwu: He is a Professor of General Surgery/Surgical Oncology of the Department of Surgery, Faculty of Medical Sciences, College of Medicine, Ituku-Ozalla Campus Enugu of the University of Nigeria, and Honorary Consultant General Surgeon/Surgical Oncologist in the University of Nigeria Teaching Hospital, Enugu. He is also a Bioethicist and currently the Director of the Bioethics Program, Institute of Public Health, University of Nigeria. He has over 100 original well-researched articles in renowned peer reviewed journals covering surgical oncology, research and clinical ethics, as well as general surgery.

### **10 key publications of the RG from 2019 till date:**

- Ezeome, I. V., Nwankwo, T. O., Umeh, U. A., & Ajah, L. O. (2022). Gynaecological Cancers in HIV Positive and Negative Women—A Single-Center Retrospective Study (2008-2017). *Open Journal of Obstetrics and Gynecology*, 12, 124-139. DOI: 10.4236/ojog.2022.122013.
- Ezeome, I. V. (2022) Gamete donation—A review of ethical and legal issues. *African Journal of Reproductive Health*, 26 (3), 124-135. DOI: 10.29063/ajrh2022/v26i3.14
- Ezeome, I. V., Akintola, S. O., Jegede, A. S., & Ezeome, E. R. (2021). Perception of Key Ethical Issues in Assisted Reproductive Technology (ART) by Providers and Clients in Nigeria. *International Journal of Women's Health*, 13, 1033-1051. <https://doi.org/10.2147/IJWH.S331917>.
- Ezeome, I. V. (2021) Attitude of Nigerian obstetrician-gynecologists toward gamete donation. *Nigerian Journal of Clinical Practice*, 24 (6), 896-904. DOI: 10.4103/njcp.njcp\_270\_20
- Odoemene, C. A., Ezeome, I., & Okafor, O.C. (2021). Primary Presentation of Ovarian Cancer with Bladder Outlet Obstruction/Chronic Urinary Retention in a 12Year-Old Female. *Open Journal of Urology*, 11, 233-239. DOI: 10.4236/oju.2021.117021 (Case report)
- Onwuka CI et al. Effects of short inter-pregnancy interval on maternal and perinatal outcomes: A cohort study of pregnant women in a low-income country. *Niger J Clin Pract* 2020; 23:928-933
- Onwuka CI et al. The profile and predictors of early prenatal booking among pregnant women in Enugu, Southeast Nigeria. *Int J Med Health Dev* 2020; 25:6-10
- Nwankwo, TO., Umeh, UA., Aniebue, UU., Onu, JU, Umeh, CR, (2020) Impact of neoadjuvant chemotherapy in improving operative intervention in management of cervical cancer in low resource setting; a preliminary report. *Pan African Medical Journal*, 36(210). Dip.10.11604/pamj.2020.36.210.24141
- Ezeome, I. V. et al (2019). Attitude of Postmenopausal Women Toward the Menopause and Hormone Treatment in Enugu, Southeast Nigeria. *International Journal of Women's Health and Reproductive Sciences* 7 (3), 263-268.
- Nwankwo, T et al (2019). Complementary and alternative medicine. Use and challenges among gynaecological cancer patients in Nigeria: experiences in a tertiary health institution -preliminary results. *European Journal of Gynaecological Oncology*, 40 (1), 100-105. doi: 10.12892/ejgo4429.2019.

## 50. International Medical Research Network

**Research focus:** International Medical Research Network (IMRN) is a multi-disciplinary research organization that seeks to promote quality research activities in medical sciences. The group provides a platform for international collaboration in research and dissemination of scientific information. Members are drawn from dedicated and committed academic and non-academic faculty staff of College of Medicine and interested likeminded staff of other related faculties in the UNIVERSITY OF NIGERIA. International Medical Research Network (IMRN) maintains international collaboration in research and exchange of research information with scholars around the world. The research group is registered with the United State System for Award Management (SAM).

**Title of most recent research project:** Smokeless tobacco products:  
An evaluation of the composition and impact of chronic exposure on cardiovascular disease risks in a Nigerian metropolitan city.

### **A maximum of seven (7) other current or completed research projects**

- Cardiac autonomic neuropathy in sickle cell anaemia.
- Pulmonary hypertension in sickle cell anaemia.
- Effect of *Ocimum gratissimum* in type 2 animal model diabetes mellitus. An ethno - pharmacology and drug development study.
- Age related cardiovascular changes.
- Congenital heart disease studies.
- INTER-CHF Study: An international registry to study the current causes, treatment, barriers to care, and outcome of heart failure in Africa, Asia and South America.
- INVICTUS Trials. Investigation of rheumatic Atrial Fibrillation Treatment Using vitamin K antagonists (VKA), rivaroxaban or aspirin Studies.

**Name of the Coordinator:** Prof. Nelson .I. Oguanobi

**UNN email address of the RG:** imedical.research@unn.edu.ng

**UNN email address of the Coordinator:** nelson.oguanobi@unn.edu.ng

**Current webpage of the RG:** <https://www.unn.edu.ng/international-medical-research-network-imrn/>

**Phone number of the RG:** +2348114508033

**Phone number of the Coordinator:** +2348033738753

**Base Faculty/Institute/Center of the RG:** Faculty of Medical Sciences

**Department of the Coordinator:** Pharmacology and Therapeutics

### **Headshot of the Coordinator**



## List of members and brief intro

- Prof. Nelson .I. Oguanobi. MB;BS, MSc, FWACP, FMCP.  
Research Gate: [https://www.researchgate.net/profile/Nelson Oguanobi](https://www.researchgate.net/profile/Nelson_Oguanobi)  
Google scholar: <https://scholar.google.com/citations?user=2IbmGhAAAAAJ&hl=en>  
Prof. Nelson Oguanobi is a Consultant Physician/Cardiologist and Professor in Medicine and Pharmacology in the Faculty of Medical Sciences, University of Nigeria/ Teaching Hospital Enugu, Nigeria. He received an MSc degree in Clinical Pharmacology from University of Nigeria and he is a fellow of the West African College of Physicians and the National Postgraduate Medical College of Nigeria. He has published several research papers in international journals in the fields of Cardiology, Pharmacology and Therapeutics. He is the coordinator of undergraduate program in the department of Pharmacology and Therapeutics.
- Prof. Emmanuel .C. Ejim. MB; BS, FMCP . He obtained a Bachelors degree in Medicine and Surgery from the College of Medicine, University of Nigeria in 1995, with distinctions in human anatomy and medical biochemistry. Obtained a fellowship in Internal Medicine from the National Postgraduate medical College of Nigeria in 2005. Appointed a Consultant Physician/Cardiologist at the University of Nigeria Teaching Hospital in 2006, and later a Senior Lecturer in the department of Medicine, University of Nigeria in 201.
- Mr. Kenneth Nwadike. BMLS, MSc. Lecturer. Department of Pharmacology and Therapeutics, College of Medicine, University of Nigeria. He has a Bachelor degree in Medical Laboratory Sciences and a Masters Degree in Pharmacology. Mr. Nwadike has published several research works in the fields of medicine and Pharmacology. He is the Patient liaison officer of the Association of Good Clinical Practice in Nigeria, Enugu Chapter
- **Prof. Samuel .I. Ghasi.** BSc, MSc, PhD. Professor: Department of Pharmacology and Therapeutics, College of Medicine, University of Nigeria. Prof. Ghasi is a professor of Cardiovascular Pharmacology in the Department of Pharmacology & Therapeutics in the College of Medicine, University of Nigeria, Enugu, Nigeria. He graduated with a B.Sc degree in Biomedical Science from Panjab University in Chandigarh, India and subsequently a Master's degree in Pharmacology and Therapeutics from the University of Nigeria. His close association with renowned physician and pharmacologist, late Prof. Gilbert Onuaguluchi, stimulated his interest in cardiovascular research. He worked for and obtained his Ph.D in Cardiovascular Pharmacology under his supervision. He also holds a certificate in Research Compliance (Animal Care and Use) from Johns Hopkins University School of Medicine, Baltimore, Maryland, USA. Dr. Ghasi's research interests are arrhythmias and drugs of natural origin that have pharmacological actions of medicinal value, especially on the cardiovascular system.
- Nkemjika .I. Uwaezuoke. B.Pharm, MSc. Lecturer; Department of Pharmacology and Therapeutics, College of Medicine, University of Nigeria. Mrs. Nkemjika J.I. Uwaezuoke was born on 26th of July, 1982. She was educated at the University

School, UNN and Federal Government Girls' College, Owerri. She graduated with a B.Pharm and M.Pharm from the University of Nigeria. She is currently investigating the *Acanthus* species as she works on her PhD and pursues her residency programme with the West African Postgraduate College of Pharmacists.

- Dr. Nkoye .I. Nubila. B. MLS, MSc, PhD. Senior Lecturer in Department of Pharmacology and Therapeutics, Faculty of Medical Sciences, University of Nigeria Enugu Campus.
- Kingsely Bob-Duru. MBBS, MSc. Lecturer in Department of Pharmacology and Therapeutics, Faculty of Medical Sciences, University of Nigeria Enugu Campus.
- Francis .I. Ukekwe. MB;BS, MSc, FMCPPath. Lecturer/ Consultant Pathologist; Department of Mordid Anatomy, College of Medicine, University of i. Hisham Dokainish, M.D., FRCPC
- Dr. Chioma .E. Chibueze. MB:BS, MSc, PHD. Graduate School of Medical and Dental Sciences, Kagoshima University, Japan.
- Dr. Anthony Agonmuoh. MB;BS, MSc. Department of Medical Biotechnology, University of Winnipeg, Mannitoba. Canada.

## **10 publications**

- Nelson I Oguanobi<sup>1</sup>, Chioli P Chijioke<sup>1</sup>, Samuel I Ghasi<sup>1</sup>, Francis I Ukekwe,, Keneth I Nwadike. Toxicity Studies on Crude Leaf Extract of *Ocimum gratissimum* in Normoglycaemic and Diabetic Rats. *Research and Reviews: Journal of Pharmacology and Toxicological studies*. 2019;7(1);1-7.
- Nubila I. Nkoyo, Okoroafor Uchenna, Orji Ikechukwu, Okpe Aaron Chukwuemeka, Okorie Nkiru, Oguanobi Nelson, Shu Elvis Neba, Udeinya Iroka Joseph. Investigations of Safety of Aqueous Fractions derived from the Ash of Deseeded Fruit Head of the Oil Palm. *Der Pharmacia Lettre*, 2020, 12 (9): 1-12
- Nelson I Oguanobi, Charles U Odenigbo, Ogonna C Oguejiofor, Ezechukwu Aniekwensi, Uchenna C Okonkwo, Ukamaka M Odenigbo, Tobenna Agogbua. Determinants of Spatial Dispersion of P-Wave, QRS Complex, and QT-Interval on 12-Lead Electrocardiogram in Apparently Healthy Adults. *International Journal Clinical Cardiology* 2021; 8(1):218-224.
- Nelson .I. Oguanobi. Management of hypertension in Nigeria: The barriers and challenges. *Journal of Cardiology and Cardiovascular Medicine*. 2021; 6: 023-025.
- Nelson I Oguanobi, Charles U Odenigbo, Ogonna C Oguejiofor, Ezechukwu Aniekwensi, Uchenna C Okonkwo, Ukamaka M Odenigbo, Tobenna Agogbua. , Gender Differences in Electrocardiographic Findings in the Elderly; A Nigerian aging and Health Study. *British Journal of Medical and Health Research* 2021;8(02):39-47
- Nelson .I. Oguanobi. Multi-Biomarker-Based Risk Assessment Model: Implications in Patients with Hypertensive Heart. *Asian Journal of Cardiology Research* 2021; 5(2): 30-35.

- Nelson .I. Oguanobi, Augustine N. Duru, Paul C. Okorie, Amobi O. Egwuonwu Management of Severe Aplastic Anaemia in a Jehovah's Witness patient: The challenge and Lessons. Asian Hematology Research Journal 2021;4(4):34-43
- Ghasi S. I., Nyia-Ogbodo P. O., Ogbonna A. O., Nwokike M. O., Oguanobi N. I. Time Course of Effect of Aqueous Fruit Extract of Abelmoschus Esculentus (Okro) on Alloxan Induced Diabetic Rats. European Journal of Biomedical and Pharmaceutical sciences 2021; 8(8):94-99.
- Emmanuel C. Ejim, Nelson I. Oguanobi , Chidi B. Ubani-Ukoma , Nneka C. Udora , Ejindu J. Chigbo, Vincent A. Okwulehie , Alex K. Okonkwo , Tobenna Iyidobi. Determinants of Descending Thoracic Aortic Size Measured by Echocardiography. International Journal of Medicine and Health Development 2022;27:99-103.
- Emmanuel Chukwudi Ejim, Nelson Ifeanyi Oguanobi, Nneka Ifeyinwa Iloanusi et al. Precapillary Pulmonary Hypertension in Enugu, Nigeria Aetiology, Clinical Features and Risk Factors. Journal of Hypertension 2023;41(Suppl 1):p e471,

## 51. Occupational and Environmental Health Research Group

**Main Research Focus** and other areas of research interest **of the RG:** Evidence based studies that improve the health of workers and ensure sustainable environment.

**Title of most recent research project:** COVID – 19 vaccine hesitancy in Enugu: Traders as Case Study.

**Other current or completed research projects**

**Name of the Coordinator:** Prof. Okeke Theodora Adaeze

**UNN email address of the Coordinator:** thdokeke@yahoo.co.uk

**UNN email address of RG:** [oe.h.researchgroup@unn.edu.ng](mailto:oe.h.researchgroup@unn.edu.ng)

**UNN webpage of RG:** <https://www.unn.edu.ng/occupational-and-environmental-health-research-group/>

**Phone number of the Coordinator:** 08032267916

**Base Faculty/Institute/Center of the RG:** Clinical Sciences

**Department of the Coordinator:** Community Medicine

**List of members and brief intro:**

Prof. Okeke Theodora Adaeze (Coordinator)

Prof. Emmanuel Nwabueze Aguwa: I am a Professor in Department of Community Medicine, College of Medicine University of Nigeria Ituku-Ozalla campus. My major responsibilities include teaching, research, clinical and administrative duties. I have been teaching for the past 18 years and have published over 100 articles in both national and international peer reviewed journals.

Prof. Anne Chigedu Ndu: I am a professor in the Department of Community Medicine, College of Medicine, University of Nigeria, Ituku / Ozalla campus. My major responsibilities are teaching of students, clinical consultations, research and administrative works.

Prof. Sussan Arinze – Onyia; Dr. Ntat Charles Ibiok; Dr. Onyinye Chime; Dr. Chukwukasi Wilson Kassy

Dr. Casmir Ndubuisi Ochie: I am a medical doctor by training, with basic degrees in Medicine, a Master in Public Health, Master of Science in Occupational Health Safety and Environment as well as Fellowship training in Public Health with bias for Occupational Health and Safety in West Africa College of Physician, (FWACP).

Dr. Ifeoma Juliet Ogugua: I am a public health physician at the Department of Community Medicine, Federal University Teaching Hospital Owerri, Imo State. My research mainly focuses on Epidemiology, Occupational, and Environmental Health.

Dr. Chioma Onydimma; Dr. Igbokwe Lawson; Dr. Ugenyi Iloabachie; Dr. Ifeanyi Ajibo

Dr. Nwadiuto Chidinma Ojielo: I am a Senior Registrar in the Department of Community Medicine, University of Nigeria Ituku-Ozalla, Enugu State. My major responsibilities include teaching, research, clinical and administrative duties.

### **10 publications:**

- Okwor TJ et al. A Review of Lassa Fever Outbreaks in Nigeria From 1969 to 2017: Epidemiologic Profile, Determinants and Public Health Response. *Nigerian Journal of Medicine* 2018; 27(3): 219 – 232. <http://doi.org/10.4103/1115-2613.278784>.
- Ndu AC et al. Knowledge, Misconceptions, Preparedness, and Barriers towards Lassa Fever Control among Healthcare Workers in a Tertiary Institution in Enugu, Nigeria. *Journal of Health care for the poor and underserved*. 2019; 30(3): 1151 – 1161. <http://doi.org/10.1353/hpu.2019.0079>.
- Okwor TJ et al., Prevalence and predictors of stress among bankers in Enugu State South-East Nigeria. *Journal of Community Medicine and Primary Health Care*. 2020 Aug 28;32(2):68-79.
- Arinze – Onyia SU, Chinawa AT, Ndu AC, Okwor TJ, Agwu – Umahi OR, Obionu I, Kassy WC, Aguwa EN, Okeke TA. Factors and Characteristics of Physical Violence among Healthcare Workers of a Tertiary Hospital in Enugu, Nigeria. *International Journal of Community Medicine and Public Health*. 2019;6(12):5027-31.
- Chinawa AT, Ndu AC, Arinze – Onyia SU, Ogugua IJ, Okwor TJ, Kassy WC, Agwu – Umahi OR, Aguwa EN, Okeke TA. Prevalence of Psychological Workplace Violence among Employees of a Public Tertiary Facility in Enugu, South East, Nigeria. *Nigerian Journal of Clinical Practice*. 2020; 23(1):103–109.
- Arinze–Onyia SU et al. Prevalence and Pattern of Psychological and Physical Violence among Nurses in a Public Tertiary Health Facility in Enugu, Southeast, Nigeria. *Intl Journal of Advanced Medical and Health Research* 2020;7(1):15 – 22.
- Chime OH et al. Assessment of Knowledge and Practice of Disease Surveillance and Notification among Health Workers in Private Hospitals in Enugu State, Nigeria. *Nigerian Journal of Medicine* 2021; 30 (6):693 – 700.
- Ibiok N et al. Healthcare workers' willingness to report to work during a pandemic in southeastern Nigeria: A hypothetical case using Ebola virus disease. *Int J Med Health Dev* 2023;28(1):1-6. [10.4103/ijmh.IJMH\\_63\\_22](https://doi.org/10.4103/ijmh.IJMH_63_22).
- Kassy WC et al. Risk Perception amongst Petrol Pump Attendants and Analysis of Indiscriminate Siting of Petrol Stations in Enugu Metropolis. *West Afr J Med*. 2023 Feb 28;40(2):181-189. PMID: 36861288.
- Agwu – Umahi Olanike et al. Respiratory Health Problems, Pulmonary Functions and Correlates among Rice Mill Workers in Ebonyi State, Nigeria. *Journal of Medicine and Biomedical Research JMBR* December 2022; 1: 14 – 29.



## FACULTY OF PHARMACEUTICAL SCIENCES

### 52. Drug Delivery and Nanomedicines Research Group

**Main Research Focus** and other areas of research interest **of the RG**: The main research focus of the RG is development of novel drug delivery systems (novel conventional systems and nanomedicines, etc.) of drugs for the treatment of tropically neglected diseases, poverty-related diseases and other infectious diseases. It also includes repurposing of drugs through application of nanotechnology and other novel drug delivery technologies and strategies. Other research interests of the RG include formulation and evaluation of phytopharmaceuticals, probiotics and herbal medicines; drug discovery and development and development of excipients from natural sources for pharmaceutical, cosmetic and nutraceutical applications; drugs/medicines/herbal medicines/water quality assurance and control; pharmaceutical microbiology and biotechnology.

**Title of most recent research project**: Development and Optimization of Solid Lipid Nanoparticles Coated with Chitosan and Poly(2-Ethyl-2-Oxazoline) for the Ocular Delivery of Ciprofloxacin.

#### **Selected other current or completed research projects**

- Liposomal delivery of artemether and doxycycline.
- Development of mosquito repellent nanogels of some natural volatile oils
- Design and characterisation of intranasally administered nanostructured lipid carriers and chitosan-based thermosensitive gels of artesunate and quinine as treatment for severe and cerebral malaria.
- Isolation, characterization, and identification of potential probiotic candidates from indigenous animal and plant-based sources.
- Molecular characterisation of endophytic fungi from *Annona senegalensis* Pers and chemical composition and bioactives of their metabolites.
- Molecular characterization of antibiotic resistance and virulence genes in probiotics isolated from some traditional functional foods. Production of prodigiosin from *Serratia marcescens* and development of its parenteral nanoparticles and creams targeted against triple-negative breast, lung and skin cancers

**Name of the Coordinator**: Prof. Anthony A. Attama, FAS

**UNN email address of the RG**: [anthony.attama@unn.edu.ng](mailto:anthony.attama@unn.edu.ng)

**UNN email address of the Coordinator**: [anthony.attama@unn.edu.ng](mailto:anthony.attama@unn.edu.ng)

**Current webpage of the RG**: <https://www.unn.edu.ng/drug-delivery-and-nanomedicines-research-group/>

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**Phone number of the RG**: 08036618204

**Phone number of the Coordinator**: 08036618204

**Base Faculty/Institute/Center of the RG**: Faculty of Pharmaceutical Sciences

**Department of the Coordinator**: Pharmaceutics

## Headshot of the Coordinator



### List of members and brief intro

- Prof. Anthony A. Attama:  
[https://scholar.google.com/citations?hl=en&user=PKTI5ggAAAAJ&view\\_op=list\\_works&gmla=AJsN-F7QUiCJSCpfPXDO\\_VU5JrTxxH1p6Aq02XCLx0J5D6IDuOQV57s2hE\\_LUIMKfrN7-eC5I4zGsMulLCiZowkfwksJGscEcJHAXWxZUYXbRJVKq8RwZdw](https://scholar.google.com/citations?hl=en&user=PKTI5ggAAAAJ&view_op=list_works&gmla=AJsN-F7QUiCJSCpfPXDO_VU5JrTxxH1p6Aq02XCLx0J5D6IDuOQV57s2hE_LUIMKfrN7-eC5I4zGsMulLCiZowkfwksJGscEcJHAXWxZUYXbRJVKq8RwZdw)
- Prof. Petra O. Nnamani:  
<https://scholar.google.com/citations?user=tyl9YhYAAAAJ&hl=en&oi=ao>
- Prof. Mumuni A. Momoh:  
<https://scholar.google.com/citations?user=Fuw0CKYAAAAJ&hl=en&oi=ao>
- Prof. Ebele B. Onuigbo:  
<https://scholar.google.com/citations?user=oKApprgAAAAJ&hl=en>
- Dr. Paul A. Akpa:  
<https://scholar.google.com/citations?user=msT7DHcAAAAJ&hl=en&oi=ao>
- Dr. Franklin C. Kenechukwu:  
<https://scholar.google.com/citations?user=s87G-ucAAAAJ&hl=en&oi=ao>
- Dr. John D. N. Ogbonna:  
<https://scholar.google.com/citations?user=7OvQGb0AAAAJ&hl=en&oi=ao>
- Dr. Salome A. Chime:  
<https://scholar.google.com/citations?hl=en&user=WcG5He8AAAAJ>
- Dr. Chukwuemeka C. Mbah:  
<https://scholar.google.com/citations?user=FVpimEsAAAAJ&hl=en&oi=ao>
- Dr. Chinazom P. Agbo:  
<https://scholar.google.com/citations?user=jy3wsBUAAAAJ&hl=en&oi=ao>
- Dr. Joy N. Reginald-Opara:  
<https://scholar.google.com/citations?user=QyWr-qgAAAAJ&hl=en&oi=ao>
- Dr. Calister E. Ugwu:  
[https://scholar.google.com/citations?user=r\\_7rsycAAAAJ&hl=en&oi=ao](https://scholar.google.com/citations?user=r_7rsycAAAAJ&hl=en&oi=ao)
- Pharm. Adaeze L. Onugwu:  
<https://scholar.google.com/citations?user=zKmsBCkAAAAJ&hl=en&oi=ao>
- Pharm. Adaeze C. Echezona:
- Pharm. Chinekwu S. Nwagwu:  
<https://scholar.google.com/citations?user=Q3bXtCoAAAAJ&hl=en&oi=sra>
- Pharm. Samuel W. Uzundu:  
<https://scholar.google.com/citations?user=EDFFBtcAAAAJ&hl=en&oi=ao>
- Pharm. Ezinwanne Ezeibe:  
<https://scholar.google.com/citations?user=Xs4ndFQAAAAJ&hl=en&oi=sra>
- Dr. Dinebari P. Berebon:

- <https://scholar.google.com/citations?user=TOaaUS4AAAAJ&hl=en&oi=ao>
- Dr. Thaddeus H. Gugu:  
<https://scholar.google.com/citations?user=c9XmMv0AAAAJ&hl=en&oi=ao>
- Dr. Philip F. Uzor:  
<https://scholar.google.com/citations?user=FHu2YR8AAAAJ&hl=en&oi=ao>
- Mrs. Chizoba A. Ozioko
- Mrs. Somtochukwu Amauche Evurani
- Mr. Stephen C. Emencheta

## 10 publications

- Adaeze Linda Onugwu et al (2023). Nanotechnology based drug delivery systems for the treatment of anterior segment eye diseases. *Journal of Controlled Release* 354 (2023) 465–488. <https://doi.org/10.1016/j.jconrel.2023.01.018>
- John Dike N et al (2022). Overcoming challenges in pediatric formulation with a patient-centric design approach. *Pharmaceuticals* 15, 1331. <https://doi.org/10.3390/ph15111331>.
- Attama A.A et al., Nnamani P.O., Onokala O.B., Ugwu A.A. and Onugwu A.L. (2022), Nanogels as target drug delivery systems in cancer therapy: A review of the last decade. *Frontiers in Pharmacology* 13:874510. doi: 10.3389/fphar.2022.874510.
- Adaeze L. Onugwu et al (2022). Development and optimization of solid lipid nanoparticles coated with chitosan and poly(2-ethyl-2-oxazoline) for ocular drug delivery of ciprofloxacin. *Journal of Drug Delivery Science and Technology*. 74, 103527 Online. <https://doi.org/10.1016/j.jddst.2022.103527>
- Nnamani P. et al. (2022). Gentamicin nanogel films based on carrageenan-prosopis africana for improved wound healing. *Precision Nanomedicine*, 879–896.
- Emencheta S.C., Eze C.C., Attama A.A., Agbo D.E. and Onuigbo E.B. (2021). Isolation of *Pseudomonas aeruginosa* phages from wastewaters. *Hosts and Viruses*, 8(6): 1-6. DOI: <https://dx.doi.org/10.17582/journal.hv/2021/8.6.1.6>
- Agbo C.P., Ugwuanyi T.C., Ugwuoke W.I., McConville C., Attama A.A. and Ofokansi K.C. (2021). Intranasal artesunate-loaded nanostructured lipid carriers: A convenient alternative to parenteral formulations for the treatment of severe and cerebral malaria. *Journal of Controlled Release* 334(10), 224-236 <https://doi.org/10.1016/j.jconrel.2021.04.020>. (Thomson Reuters IF = 7.727).
- Onugwu A.L., Agbo C.P., ..... Attama A.A.\* (2021). Development of lipid-based microsuspensions for improved ophthalmic delivery of gentamicin sulphate. *Therapeutic Delivery* (Epub ahead of print). DOI: 10.4155/tde-2021-0039. (SJR = 0.62).
- Nnamani P.O et al (2021). Formulation and evaluation of transdermal nanogel for delivery of artemether. *Drug Delivery and Translational Research*, <https://doi.org/10.1007/s13346-021-00951-4>. (Thomson Reuters IF = 2.664).
- Momoh M.A., Kenekchukwu F.C., Ofokansi K.C., Attama A.A. and Díaz D.D. (2020). Insulin-loaded mucoadhesive nanoparticles based on mucin-chitosan complexes for oral delivery and diabetes treatment. *Carbohydrate Polymers*, 229, 115506 <https://doi.org/10.1016/j.carbpol.2019.115506>.

### 53. Drug Quality Assurance and Pharmacoeconomic Research Group (dQAPReG)

**Main research focus and other areas of research interest of the RG:** Quality assurance of manufactured drugs and drug entities

**Title of most recent research project:** Quality assessment of commonly marketed ciprofloxacin, ibuprofen, paracetamol, and metronidazole, dosage formulations in Nigeria

#### **Other current or completed research projects**

- Quality assessment of some commercially available diclofenac sodium tablets marketed in Enugu State.
- Quality assessment of some common metformin tablet formulations available in Enugu State.
- Evaluation of safety and efficacy of cosmeceuticals marketed in Nigeria.
- Quality control studies on some antimalarial drugs marketed in Nigeria
- Quality assessment of some antihypertensive drugs commonly available in Nigerian markets
- Quality assessment of some locally manufactured paracetamol tablets
- Quality control of some locally produced Vitamin C tablets

**Name of the Coordinator:** Professor Emmanuel Chinedum Ibezim *JP, FPSN, FNIIA, FNAPharm, FAAN*

**UNN email address of the RG:** [emmanuel.ibezi@unn.edu.ng](mailto:emmanuel.ibezi@unn.edu.ng)

**UNN email address of the coordinator:** [emmanuel.ibezi@unn.edu.ng](mailto:emmanuel.ibezi@unn.edu.ng)

**Current webpage of the RG** <https://www.unn.edu.ng/drug-quality-assurance-and-pharmacoeconomic-research-group-dqapreg/>

**UNN email address of RG:** [dqap-researchgroup@unn.edu.ng](mailto:dqap-researchgroup@unn.edu.ng)

**Phone number of the RG:** 08062328815

**Phone number of the coordinator:** 08062328815

**Base Faculty/Institute/Center of the RG:** Pharmaceutical Sciences

**Department of the Coordinator:** Pharmaceutics

**Headshot of the coordinator:**



**List and brief profiles of members (one paragraph per member) with their UNN website url to their detailed CVs (hyperlinks are OK)**

- Prof EC Ibezim (Leader) – Professor Emmanuel C. Ibezim is a Professor of Pharmaceutics and Pharmaceutical Microbiology, University of Nigeria Nsukka, Fellows of Pharmaceutical Society of Nigeria, Nigeria Institute of Industrial Administration, African Academics Network and Nigerian Academy of Pharmacy. He is a past Dean of Faculty, several times Head of Department, immediate past Chairman of Nigeria Association of Pharmacists in Academia, and currently heads the University of Nigeria Drug Manufacturing firm. Prof Ibezim is widely published (over

two hundred and twenty published works) and extensively traveled and a recipient of several fellowships, grants and awards.

- Prof. MA Momoh – Professor Mumuni Audu Momoh is a Professor of Pharmaceutics and Pharmaceutical Microbiology. He was the immediate past Head of Department of Pharmaceutics and has published extensively. He has supervised several postgraduate students and a several time grantee of TETFund, Matsumae Japan Grant, as well as other awarding bodies.
- Prof A Chukwu – Professor Amarauche Chukwu is a Professor of Pharmaceutical Technology and Industrial Pharmacy of the University of Nigeria, Nsukka and a Federal Analyst. He had served as Dean of Faculty and several time Head of Department of Pharmaceutical Technology and Industrial Pharmacy. Prof Chukwu has supervised several doctoral and Masters students, has received several awards and is a Fellow of both the Nigeria Academy of Pharmacy and West African Postgraduate College of Pharmacists. He has published extensively and is widely traveled.
- Prof. EO Omeje – Professor Edwin Ogechukwu Omeje is a Professor of Pharmaceutical and Medicinal Chemistry and the current Dean of Students Affairs of the University of Nigeria, Nsukka. He has visited several countries for collaborative research and has supervised quite a number of postgraduate students. Prof. Omeje has published extensively and is a recipient of several awards.
- Prof CM Ubaka – Professor Chukwuemeka Michael Ubaka is a Professor of Clinical Pharmacy and Pharmacy Management. He has served as Head of Department of Clinical Pharmacy and Pharmacy Management, has published extensively and has supervised several Masters and some doctoral students. Prof. Ubaka is a recipient of several grants and has traveled extensively.
- Prof. M Adibe – Professor Maxwell Adibe is a Professor of Clinical Pharmacy and Pharmacy Management of the University of Nigeria, Nsukka. He is the current Head of that Department. Professor Adibe has published extensively and was a one time Dean of Faculty of Pharmacy, Gregory University Uturu. He has supervised several students at postgraduate level and is a Visiting lecturer to several universities in Nigeria. Professor Adibe is also a recipient of several awards and grants.
- Prof. UE Odo – Professor Uchenna Estella Odoh is a Professor of Pharmacognosy of the University of Nigeria, Nsukka. She a current member of the Governing Council of the University of Nigeria and a member of Board of Governors of some other noteworthy institutions. Professor Uchenna Odoh has supervised several students at doctoral and Masters levels and has served severally as Head, Department of Pharmacognosy. She has traveled extensively and had served as Visiting lecturer to several universities in the country.
- Prof IV Onyishi – Professor Ikechukwu Virgilius Onyishi is a Professor of Pharmaceutical Technology and Industrial Pharmacy of the University of Nigeria, Nsukka. He is the current Dean of the Faculty of Pharmaceutical Sciences, University of Nigeria, Nsukka. Professor Onyishi has supervised numerous Masters and doctoral students and is currently supervising a lot of others. He is a recipient of several national and international awards and grants and has served as several times Head of Department of Pharmaceutical Technology and Industrial Pharmacy.

- Dr F.C. Kenechukwu – Dr. Franklin Kenechukwu is a Senior lecturer in the Department of Pharmaceutics, Faculty of Pharmaceutical Sciences, University of Nigeria, Nsukka. He currently heads some sensitive Committees in the Faculty and Department. Dr. Kenechukwu is a recipient of several national and international grants including the TETFund and is has successfully supervised some postgraduate students. He has also traveled extensively visiting several laboratories in Europe and South America.
- Dr JD Ogbonna – Dr. John Dike Ogbonna is a Senior Lecturer in the Department of Pharmaceutics of the University of Nigeria, Nsukka. He is the current Associate Dean of the Faculty of Pharmaceutical Sciences as well as a Visiting lecturer in some Universities in the country. Dr. Ogbonna is a recipient of several grants and fellowships and has visited several European and Asian countries for collaborative scientific research. He has supervised some postgraduate students and is currently supervising a lot others.

#### **Members Google Scholar Citation links**

- <https://scholar.google.com/citations?user=ZVhGrcYAAAAJ&hl=en>
- <https://scholar.google.com/citations?user=Fuw0CKYAAAAJ&hl=en>
- <https://scholar.google.com/citations?user=G33fVlkAAAAJ&hl=en>
- <https://scholar.google.com/citations?user=HnUdNDQAAAAJ&hl=en>
- <https://scholar.google.com/citations?user=lzr-jLkAAAAJ&hl=en>
- <https://scholar.google.com/citations?user=kCUgRCsAAAAJ&hl=en>
- <https://scholar.google.ca/citations?user=Bdg5GfMAAAAAJ&hl=en>
- <https://scholar.google.com/citations?user=anPtwXIAAAAAJ&hl=en>
- <https://scholar.google.com/citations?user=s87G-ucAAAAJ&hl=en>
- <https://scholar.google.com/citations?user=7OvQGb0AAAAJ&hl=en>

#### **Members Research gate links**

- <https://www.researchgate.net/profile/Emmanuel-Ibezim>
- <https://www.researchgate.net/profile/Mumuni-Audu>
- <https://www.researchgate.net/profile/Amarauche-Chukwu-2>
- <https://www.researchgate.net/profile/E-Omeje>
- <https://www.researchgate.net/profile/Chukwuemeka-Ubaka>
- <https://www.researchgate.net/profile/Professor-Maxwell-Adibe>
- <https://www.researchgate.net/profile/Uchenna-Odoh>
- <https://www.researchgate.net/profile/Ikechukwu-Onyishi>
- <https://www.researchgate.net/profile/Franklin-Kenechukwu>
- <https://www.researchgate.net/profile/John-Ogbonna>

#### **10 key publications of the RG from 2019 till date**

- Anyanwu, N. C. et al (2023). Quality assessment of commercially available metronidazole tablets marketed in Enugu State, Nigeria, *Journal of Pharmaceutical and Allied Sciences*, 20 (1) 3833 – 3842.
- Anizor, R. C et al (2023) Quality control studies on some commercially available brands of ciprofloxacin metronidazole tablets in Anambra State, *Journal of Pharmaceutical and Allied Sciences*, 20 (1) 3851 – 3858.

- Momoh A Mumuni et al (2020) Antimicrobial Activity of Ciprofloxacin-Loaded Softisan-154 Lipid Microparticles: Physico-chemical Evaluation and *In Vitro* Activity **Acta Scientific Pharmaceutical Sciences 4(3): 1 -7**
- Onah A et al (2020) Acute Oral Toxicity Studies of the Crude Extract of Endophytic Fungi Isolated from *Annona senegalensis* Pers, Journal of Drug Delivery and Therapeutics, 10 (3):207-216
- Kenechukwu FC et al (2021), Dual-Responsive Micellar Microgels Matrixed with Surface-Engineered Lipids: a New Approach for Controlled Vaginal Drug Delivery; Journal of Pharmaceutical Innovation <https://doi.org/10.1007/s12247-021-09546-5>
- Onyi, P. N et al (2021) Prevalence Of Metallo- B- Lactamases (MBLs) In Carbapenem Non-Susceptible *Escherichia Coli* Isolated From Major Meat Sources, Journal of Pharmaceutical and Allied Sciences, 18(3):3395-3403
- Petra Nnamani et al (2022) Gentamicin nanogel films based on carragenaan-*Prosopis africana* for improved wound healing, Precision Nanomedicine, 5 (2):879-896.
- Ibezim E.C et al (2019) Phytochemical constituents and wound healing properties of ointment formulations of *Ocimum gratissimum* crude aqueous leaf extracts, JOPHAS 16 (4):381-385
- Abonyi, JI et al (2020) Pharmacokinetics and Bio-Distribution Properties of a Self-Emulsifying Drug Delivery System Containing Nevirapine. J Drug Discov Develop and Deliv. 6(1): 1035.
- Franklin Chimaobi Kenechukwu et al (2020), Solidified reverse micellar solution-based mucoadhesive nano-emulgel improves the dissolution of poorly soluble imidazole antifungal , African Journal of Pharmaceutical Research and Development, **12(1): 015-025**

#### **54. Good Manufacturing Practice Research Group (GMP-Research Group)**

**Focus:** Research on Good Manufacturing Practice in pharmaceutical, healthcare, cosmetics, food, chemical and allied industries. The group study manufacturing processes in these industries for improved performance and technical advice. GMP research group provide training on production skills, techniques and optimization for production staff of companies. It also evaluates compliance of companies to best practices. Research is also done to optimize production processes.

**Areas of research interest:** Industrial Pharmacy; Product development in Pharmaceuticals, healthcare, cosmetics, food and nutrition, chemical and allied industries; Quality assurance; Optimization; Validation.

**Current research projects:** Optimization of formulation process variables for improved pharmaceutical product quality.

**Name of Coordinator:** Dr. Chukwuma O. Agubata

**UNN email address of the coordinator:** [chukwuma.agubata@unn.edu.ng](mailto:chukwuma.agubata@unn.edu.ng)

**UNN email address of RG:** [gmp-researchgroup@unn.edu.ng](mailto:gmp-researchgroup@unn.edu.ng)

**UNN webpage of RG:** <https://www.unn.edu.ng/good-manufacturing-practice-research-group-gmp-research-group/>

**Phone number of the coordinator:** +2348062404493

**Base Faculty/Institute /Centre of the RG:** Pharmaceutical Sciences

**Department of the coordinator: Pharmaceutical Technology and Industrial Pharmacy**  
**List and brief profiles of members:**

- Dr. Chukwuma Agubata is an Associate Professor (Reader) in Department of Pharmaceutical Technology and Industrial Pharmacy, University of Nigeria Nsukka. Dr. Agubata was a joint winner of Nigeria Prize for Science 2017 (NLNG Prize) which is the most prestigious science award in Nigeria. Dr. Agubata was a Fulbright Visiting Scholar in the United States of America in 2021. He is a pharmacist with a Ph.D and has published many works in high impact factor journals and has a patent in lipid-based drug delivery. His area of interest include Pharmaceutical technology, drug delivery and lipid-based nanomedicines. Dr. Chukwuma Agubata has also done important research works on optimization of processes and production variables.
- Prof. Godswill C. Onunkwo is a Professor of Pharmaceutical Technology and Industrial Pharmacy. Prof Onunkwo has numerous scientific publications in peer-reviewed and high impact journals. He has also supervised numerous Masters and Doctoral (Ph.D) students. Prof. GC Onunkwo had served as the Dean of Faculty of Pharmaceutical Sciences, University of Nigeria Nsukka.
- Dr. Chukwumeka Christian Mbah is currently a Senior Lecturer in the Department of Pharmaceutical Technology and Industrial Pharmacy, Faculty of Pharmaceutical Sciences, University of Nigeria, Nsukka (UNN). Dr. C. C. Mbah obtained a Ph.D and M. Pharm. degrees in Pharmaceutics from UNN, after graduating as a Pharmacist with Bachelor of Pharmacy (B. Pharm.) degree from the same institution. He had earlier worked as a Research Fellow for over six years at the National Institute for Pharmaceutical Research and Development, Federal Ministry of Health, Abuja, Nigeria. His research interests are in the areas of Formulation and Drug Delivery. He researches in the fields of pharmaceutical nanotechnology, nanomedicine, and pharmaceutical raw materials and herbal medicines development. Dr. Mbah has studied the development of nanovesicular carriers for topical, transdermal and oral delivery. He has also studied the development of pharmaceutical biomaterials from local sources and their applications in various drug delivery systems, including solid, semi-solid and liquid forms. Dr. Mbah has published many peer-reviewed articles in reputable journals in his areas of research, and presented a number of papers at numerous international and national scientific conferences. Dr. C. C. Mbah is a member of the Pharmaceutical Society of Nigeria (PSN) and Nigeria Association of Pharmacists in Academia (NAPA).
- Dr Calister E. Ugwu is a Senior lecturer in the Department of Pharmaceutical Technology and Industrial Pharmacy at the University of Nigeria, Nsukka. She has experiences in drug design, formulations, and development of novel drug delivery systems. Dr Ugwu has published numerous peer-reviewed scientific articles in reputable journals.
- Dr. Akachukwu Ibezim holds a PhD in Medicinal Chemistry from the University of Nigeria, Nsukka, 2018. He was a visiting research scholar at Molecular Simulation Laboratory, University of Buea, Cameroon in 2014 and Skaggs School of Pharmacy and Pharmaceutical Sciences, University of California, San Diego, USA in 2017. He is a recipient of many awards including the postdoctoral research grant (2019) award by The World Academy of Science (TWAS) for a research study in Vellore Institute of Technology, India. Ibezim is an academic staff in the Department of Pharmaceutical



and Medicinal Chemistry, University of Nigeria, Nsukka and has authored over 40 research articles in both local and international peer-reviewed journals. His research focuses on the application of computational techniques to drug discovery.

- Dr. Oluchukwu Nwadi is a lecturer in the Department of food science and technology, Faculty of Agriculture, University of Nigeria Nsukka. Dr. Nwadi has expertise in food science and technology, and she has also developed some nutraceutical products. She continues to contribute towards improving the quality of food available for public consumption. Her knowledge of nutrition and its application in food consumed is of great value.
- Dr. Lydia O. Ugorji is a pharmacist by profession. She presently lectures the undergraduates in the department of Pharmaceutical Technology and Industrial Pharmacy, University of Nigeria. Lydia is about to complete her PhD program under the sponsorship of the DAAD / UNN In region / In country scholarship program. She was also a participant of the DAAD/ EARTH (Education and Research Oriented Training in Health Sciences) summer school held in Hamburg Germany, 2018. She has done several research works on drug delivery via various novel carriers – Self emulsifying formulations, solid dispersions, niosomes and hydrogels. Most of her research works are focused on Malaria and cancer therapy.

#### 10 key publications:

- Nzekwe IT et al. Designing an ideal alcohol-based hand sanitizer: *in vitro* antibacterial responses of ethanol and isopropyl alcohol solutions to changing composition. *AAPS Open* (2021) 7:5 <https://doi.org/10.1186/s41120-021-00038-x>
- Agubata CO, Ezeanya NI, Nzekwe IT, Uzundu SW, Mbah CC. Characterization and sustainable anti-ulcer activity of hydrogels based on acid-diol reactions. *Sustainable chemistry and pharmacy*, 2021; 21: 100414. <https://doi.org/10.1016/j.scp.2021.100414>
- Ugorji OL, Umeh ONC, Agubata CO, Adah D, Obitte NC, Chukwu A. The effect of niosome preparation methods in encapsulating 5-fluorouracil and real time cell assay against HCT-116 colon cancer cell line. *Heliyon* 2022; 8. <https://doi.org/10.1016/j.heliyon.2022.e12369>
- Mbah CC et al., Preliminary investigation of *Dioclea reflexa* seed gum as a food and potential pharmaceutical excipient. *German Journal of Pharmaceutical and Biomaterials*, 2022; 1(4): 27-37. <https://doi.org/10.5530/gjpb.2022.4.17>
- Mbah et al., Nanovesicle formulation enhances anti-inflammatory property and safe use of piroxicam, *Pharmaceutical Nanotechnology*, 2021;9(3):177-190. DOI: 10.2174/2211738509666210129151844.
- Nwadi OMM, Uchegbu NN, Okonkwo T. Use of cereals and egg products in extruded foods: A review. *Pakistan Journal of Nutrition*. 2023; 22(1), 1-10
- Agubata C.O, Orjiezoke A.C, Nzekwe I.T, Okoye I.E. Application and evaluation of 3-component mixture of directly compressible excipients in tablet formulation using an technique. *African Journal of Pharmaceutical Research and Development*, 2017; 9 (1): 30-39.
- Ibezim, A et al (2022) Fragment based virtual screening discovers potential new Plasmodium P14KIIIβ ligands. *BMC Chemistry*, 16, 19. <https://doi.org/10.1186/s13065-022-00812-2>

- Ugwu CE et al. Development of a modified hard gelatin capsule for colontargeted drug delivery of hydrogel-based piroxicam microparticles. *Tropical Journal of Pharmaceutical Research* November 2022; 21 (11): 2285-2293
- Agubata CO, Mbah MA, Akpa PA, Ugwu, G. Application of self-healing, swellable and biodegradable polymers for wound treatment. *Journal of Wound Care*. 2021. <https://doi.org/10.12968/jowc.2021.30.Sup9a.IV>

## 55. Natural Products Research Group (NAPREG)

**Main research focus:** Drug development from natural sources. Other areas of research interest are isolation and characterization of lead compounds for new drug molecules, as well as evaluation and standardization of herbal products. The Research Group since 2020 publishes a journal “Trends in Natural Products Research” (tnpr), <https://www.tnpr-napreg.com>; doi: 10.48245/tnpr-2734391: ISSN; 2734-391X, now in volume 4

**Title of most recent research project:** Exploration of the medicinal potentials of *Phyllanthus muellerianus* (Kuntze) leaves

**A maximum of 7 other current/completed research projects:**

- Antioxidant effects of *Lophiria lanceolata*
- *Persea americana* seeds as a gastroprotective agent
- Anti-ulcerogenic potentials of *Chromolaena odorata*
- Medicinal usefulness of *Combretum paniculatum*
- Flavonoids and anticancer activity
- Plants effective in wound healing
- Antiinflammatory activity of medicinal plants

**Name of the Coordinator:** Professor Peter Achunike Akah, FAS

**UNN email address of the RG:** [nap.reg@unn.edu.ng](mailto:nap.reg@unn.edu.ng)

**UNN email address of the Coordinator:** [peter.akah@unn.edu.ng](mailto:peter.akah@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/natural-products-reserch-group/>

**Phone number of the RG:** +234 803 775 0231

**Phone number of the coordinator:** +234 803 775 0231

**Base Faculty of the RG:** Faculty of Pharmaceutical Sciences

**Department of the Coordinator:** Pharmacology and Toxicology

**List and brief profiles of members including Google scholar citation and Research gate links**

- Professor Peter A. Akah, BSc, MSc, PhD, FWASP, FAS, FAMedS  
Coordinator Natural Products Research Group. Fellow Institute of Public Analysts of Nigeria (FIPAN), Fellow West African Society for Pharmacology (FWASP), Fellow African Academics Network (FAAN), Fellow Academy of Medicine Specialties (FAMedS), Fellow Academy of Science (FAS). Editor-in-Chief *Journal of Medicinal Plants Research (JMPR)*, *African Journal of Pharmaceutical Research and Development (AJOPRED 2019-2022)*, *Trends in Natural Products Research (tnpr)* and *Continental Journal of Pharmaceutical Sciences (CJPS)*, Academic Editor, *Archives of Current Research International* and Series Editor *BMC Complimentary Medicine and Therapies*.

<https://scholar.google.co.in/citations?hl=en&user=afzPiaYAAAAJ>

<https://www.researchgate.net/profile/Peter-Akah>

- Professor Adaobi C. Ezike, B. Pharm, M. Pharm, PhD  
The main thrust of her research has been the elucidation of the pharmacological actions of medicinal plants. Consequently, her research team has established the pharmacological basis for the use of different medicinal plants in the ethnomedicinal management of diseases ranging from asthma, diabetes, ulcer, wounds to inflammatory disorders. Her research strategy is rooted in the separation of bioactive constituents of medicinal plants, with the ultimate aim of isolating bioactive compounds.  
<https://scholar.google.com/citations?hl=en&user=oklpx5QAAAAJ>  
<https://www.researchgate.net/profile/Adaobi-Ezike-2/stats/report/weekly/2023-02-12>
- Professor Theophine C. Akunne, B.Pharm, M.Pharm, PhD  
Joined the services of the University of Nigeria Nsukka in 2005. Actively involved in Natural Products Pharmacology with emphasis on the screening and elucidation of the scientific basis of the use of medicinal plants  
<https://scholar.google.com/citations?hl=en&user=UVfnpP4AAAAJ>  
<https://www.researchgate.net/profile/Theophine-Akunne-formerly-Okoye/stats/report/weekly/2023-02-12>
- Professor Chukwuemeka S. Nworu, B. Pharm, M. Pharm, PhD  
Joined the services of the University of Nigeria Nsukka in 2005 and has risen through the ranks to the position of full Professor of Pharmacology and Toxicology in 2017. His research interest has been in vaccine adjuvants, bio-response modifiers, and immunopharmacological interventions in infectious diseases. His postdoctoral research experience was at the Ruhr-Universität, Bochum, Germany and University of Pittsburgh, Pennsylvania, USA. He is a Fellow of the Alexander von Humboldt Foundation (Germany) and a Senior Fulbright Research Fellow (USA).  
<https://scholar.google.co.in/citations?user=gh8UJh0AAAAJ&hl=en>  
[https://www.researchgate.net/profile/Chukwuemeka\\_Nworu](https://www.researchgate.net/profile/Chukwuemeka_Nworu)
- Dr. Florence N. Mbaoji, BSc, B. Pharm, M. Pharm, PhD  
Dr. Florence Nwakaego Mbaoji joined the services of the University in 2009 as Graduate Assistant and rose to the rank of Senior Lecturer in 2019. Her current research interest is in the area of isolation, and characterization of pharmacologically bioactive compounds from medicinal plants that will be effective in the treatment of cancer and management of diabetes mellitus and ameliorate or prevent its vascular-related complications and their mechanism of action determined.  
[https://scholar.google.com/scholar?as\\_sdt=2007&q=Mbaoji+Florence+Nwakaego&hl=en](https://scholar.google.com/scholar?as_sdt=2007&q=Mbaoji+Florence+Nwakaego&hl=en)  
<https://www.researchgate.net/profile/Florence-Mbaoji/research>
- Dr. Martha N. Ofokansi, B.Pharm, M.Pharm, PhD  
Dr. Martha Ofokansi is a Senior Lecturer in the Department of Pharmacology and Toxicology. She joined the services of the University of Nigeria, Nsukka in 2015. Her main focus is drug discovery from indigenous plants and herbs.  
<https://scholar.google.com/citations?hl=en&user=c9h3AhkAAAAJ>  
<https://www.researchgate.net/profile/Martha-Ofokansi>

- Dr. Collins A. Onyeto, B. Pharm, M. Pharm, PhD  
Dr. Onyeto joined the services of the University of Nigeria, Nsukka in 2010. He is currently a Senior Lecturer in the Department of Pharmacology and Toxicology. He has interest in the molecular mechanism of action of medicinal plants  
<https://scholar.google.com/citations?user=z1UrBXgAAAAJ&hl=en>  
<https://www.researchgate.net/profile/Collins-Onyeto>
- Ikechukwu I. Peter, B. Pharm, M. Pharm  
Joined the Department of Pharmacology and Toxicology as an Assistant Lecturer in 2017. He is currently running his doctoral program in the Department. His research interests include ethnopharmacology, natural Products Pharmacology, nanotheranostics , molecular pharmacology and Toxicology  
<https://scholar.google.com/citations?user=2kdzqWAAAAAJ&hl=en>  
<https://www.researchgate.net/profile/Ikechukwu-Peter>
- Akachukwu M. Onwuka, B. Pharm, M. Pharm.  
Marytheresa is a staff of the Department of Pharmacology and Toxicology. Her research interests include the extraction, isolation, and characterization of pure compounds from natural products for pharmacological studies. She is also interested in plants used for treating infectious diseases.  
[https://scholar.google.com.au/citations?hl=en&view\\_op=list\\_works&authuser=1&gmla=AJsN-F7FO6T8OUomxL](https://scholar.google.com.au/citations?hl=en&view_op=list_works&authuser=1&gmla=AJsN-F7FO6T8OUomxL)  
<https://www.researchgate.net/profile/Akachukwu-Onwuka>
- Eleazar M. Alozie, BSc, MSc  
Joined the Department of Pharmacology and Toxicology as a Lecturer II in 2019. As a member of Natural products Research Group, he is evaluating the toxicity, antidiabetic and antioxidant activities of herbal medicines and medicinal plants..He is also studying the clinical pharmacology of herbal medicines. .  
[https://scholar.google.com/citations?user=pJ\\_fLvUAAAAAJ&hl=en](https://scholar.google.com/citations?user=pJ_fLvUAAAAAJ&hl=en)  
<https://www.researchgate.net/profile/Elazar-Alozie>

### 10 key publications of the RG from 2019 till date

- Martha N Ofokansi, Chinenye J Ugwah-Oguejiofor, Stella Ihim, Charles O Okoli, Peter A Akah (2021). Neuropharmacological evaluation of the methanol leaf extract of *Phyllanthus muellerianus* (Kuntze) Exell and its ethyl acetate fraction in mice. Tropical Journal Pharmaceutical research. 20(7).
- Martha N Ofokansi, Matthias O Agbo, Ogechukwu N. Isiogugu, Ikechukwu.E Peter, Peter A. Akah, Festus B. Okoye (2022). Glycosides isolated from leaf extract of *Phyllanthus muellerianus* (Kuntze) Excell (Phyllanthaceae) upregulated cell-mediated innate immunity. Fabad Journal of Pharmaceutical Sciences 2023 (in press).
- Collins Azubuike Onyeto, Martha Nneoma Ofokansi, and Matthias Onyebuchi Agbo (2021). Total Phenolics, Flavonoids and *in vitro* Antioxidant Properties of *Lophira lanceolata* TIEGH. Research Journal of Medicinal Plants 15: 29-35.
- Peter Ikechukwu Emmanuel, Ugwu Chikamso Sandra, Onwuka Akachukwu Marytheresa, Mbaoji Florence Nwakaego, Ofokansi Martha Nneoma, Onyeto Collins Azubuike and Philip F. Uzor (2022). Gastroprotective effects of Combretum

paniculatum (Combretaceae) leaf extract and fractions on absolute ethanol-induced gastric ulcer in rats. *Future Journal of Pharmaceutical Sciences* 8:54.

- Victoria Nonyelum Umeh, Peter Achunike Akah and Martha Nneoma Ofokansi (2020). Potentials of *Persea americana* Mill (Avocado) (Lauraceae) seeds as ulcer protective agent. *Research Journal of Pharmacology*. 14 (1) : 1-11
- Peter A. Akah, Innocent F. Ajegi and Martha N. Ofokansi (2020). Evaluation of the gastric antiulcer efficacy of *Helianthus annuus* L, leaves extract and fractions. *Journal of Natural and Ayurvedic Medicine* 4(2). 000251.
- Ikechukwu E. Peter, Ifeoma A.Nwabunike, Marytheresa A. Onwuka, Florence N. Mbaoji and Bonaventure C. Obi (2020). Evaluation of the immunomodulatory activity of the methanol-methylene chloride extract of *Parkia biglobosa* JacqBenth (Fabaceae) stem Bark in mice. *Virology and Immunology Journal*, 4(2): 000246. DOI: 10.23880/vij-16000246
- Ikechukwu Peter, Theophine Akunne, Samson Amos, and Peter Akah (2021). Flavonoids and the Mechanisms of their Anticancer Effects. *Trends in Natural Products Research*, 2(1):1-12. DOI: 10.48245/tnpr-2734391.2021.2.101.
- Mary Osifo, Stella Ihim, Nneka Ani, Chukwuemeka Nworu and Peter Akah (2022). Wound healing and anti-inflammatory activities of *Ceiba pentandra* (L.) Gaertn. *Pharmacological Research-Modern Chinese Medicine* 3(100077). <https://doi.org/10.1016/j.prmcm.2022.100077>.
- **Florence** N, Mbaoji., Ikechukwu E. Peter and Marytheresa A. Onwuka (2020). Anti-inflammatory activity of the methanol leaf extract and fractions of *Lannea barteri* Oliv. Engl. (Anacardiaceae) in rats. *Drug Discovery*, 14(33), 25-32.

## 56. Pharmaceutical Excipients Discovery Research Group

**Main Research Focus** and other areas of research interest of the RG: Discovering of novel pharmaceutical raw materials

**Title of most recent research project:** Production of suitable novel pharmaceutical excipients from gum extracts of admixtures of *Hibiscus esculentus*, *Irvingia gabonensis* and *Prosopis africana*

### **Other current or completed research projects**

- Discovery of Pharmaceutical tablet excipients from plant sources
- Modification of different already existing pharmaceutical excipients from plant sources
- Exploring the potentials of admixtures of plant excipients in pharmaceutical drug delivery
- Exploiting pharmaceutical excipients from animal sources
- Exploring pharmaceutical excipients from mineral sources
- Exploring activities of combined natural and synthetic pharmaceutical excipients for drug production.
- Screening of pharmaceutical excipients for microbial purity.

**Name of the Coordinator:** Professor Emmanuel Chinedum Ibezim *JP, FPSN, FNIIA, FNAPharm, FAAN*

**UNN email address of the RG:** emmanuel.ibezi@unn.edu.ng

**UNN email address of the Coordinator:** emmanuel.ibezi@unn.edu.ng

**Current webpage of the RG:** <https://www.unn.edu.ng/research-groups/>

**Phone number of the RG:** 08062328815

**Phone number of the Coordinator:** 08062328815

**Base Faculty/Institute/Center of the RG:** Pharmaceutical Sciences

**Department of the Coordinator:** Pharmaceutics

### Headshot of the Coordinator



**List and brief profiles of members (one paragraph per member) with their UNN website url to their detailed CVs (hyperlinks are OK)**

- Prof EC Ibezim (Leader) – Professor Emmanuel C. Ibezim is a Professor of Pharmaceutics and Pharmaceutical Microbiology, University of Nigeria Nsukka, Fellows of Pharmaceutical Society of Nigeria, Nigeria Institute of Industrial Administration, African Academics Network and Nigerian Academy of Pharmacy. He is a past Dean of Faculty, several times Head of Department, immediate past Chairman of Nigeria Association of Pharmacists in Academia, and currently heads the University of Nigeria Drug Manufacturing firm. Prof Ibezim is widely published (over two hundred and twenty published works) and extensively traveled and a recipient of several fellowships, grants and awards.
- Prof. EO Omeje – Professor Edwin Ogechukwu Omeje is a Professor of Pharmaceutical and Medicinal Chemistry and the current Dean of Students Affairs of the University of Nigeria, Nsukka. He has visited several countries for collaborative research and has supervised quite a number of postgraduate students. Prof. Omeje has published extensively and is a recipient of several awards.
- Prof. UE Odo – Professor Uchenna Estella Odoh is a Professor of Pharmacognosy of the University of Nigeria, Nsukka. She a current member of the Governing Council of the University of Nigeria and a member of Board of Governors of some other noteworthy institutions. Professor Uchenna Odoh has supervised several students at doctoral and Masters levels and has served severally as Head, Department of Pharmacognosy. She has traveled extensively and had served as Visiting lecturer to several universities in the country.
- Prof IV Onyishi – Professor Ikechukwu Virgilius Onyishi is a Professor of Pharmaceutical Technology and Industrial Pharmacy of the University of Nigeria, Nsukka. He is the current Dean of the Faculty of Pharmaceutical Sciences, University of Nigeria, Nsukka. Professor Onyishi has supervised numerous Masters and doctoral students and is currently supervising a lot of others. He is a recipient of several

national and international awards and grants and has served as several times Head of Department of Pharmaceutical Technology and Industrial Pharmacy.

- Dr F.C. Kenechukwu – Dr. Franklin Kenechukwu is a Senior lecturer in the Department of Pharmaceutics, Faculty of Pharmaceutical Sciences, University of Nigeria, Nsukka. He currently heads some sensitive Committees in the Faculty and Department. Dr. Kenechukwu is a recipient of several national and international grants including the TETFund and is has successfully supervised some postgraduate students. He has also traveled extensively visiting several laboratories in Europe and South America.
- Dr JD Ogbonna – Dr. John Dike Ogbonna is a Senior Lecturer in the Department of Pharmaceutics of the University of Nigeria, Nsukka. He is the current Associate Dean of the Faculty of Pharmaceutical Sciences as well as a Visiting lecturer in some Universities in the country. Dr. Ogbonna is a recipient of several grants and fellowships and has visited several European and Asian countries for collaborative scientific research. He has supervised some postgraduate students and is currently supervising a lot others.

Members Google Scholar Citation links

<https://scholar.google.com/citations?user=ZVhGrcYAAAAJ&hl=en>  
<https://scholar.google.com/citations?user=HnUdNDQAAAAJ&hl=en>  
<https://scholar.google.ca/citations?user=Bdg5GfMAAAAJ&hl=en>  
<https://scholar.google.com/citations?user=anPtWXIAAAAJ&hl=en>  
<https://scholar.google.com/citations?user=s87G-ucAAAAJ&hl=en>  
<https://scholar.google.com/citations?user=7OvQGb0AAAAJ&hl=en>

Members Researchgate links

<https://www.researchgate.net/profile/Emmanuel-Ibezim>  
<https://www.researchgate.net/profile/E-Omeje>  
<https://www.researchgate.net/profile/Uchenna-Odoh>  
<https://www.researchgate.net/profile/Ikechukwu-Onyishi>  
<https://www.researchgate.net/profile/Franklin-Kenechukwu>  
<https://www.researchgate.net/profile/John-Ogbonna>

### 10 key publications of the RG from 2019 till date:

- **Ibezim EC**, Momoh MA, Onyishi VI, Nwabunike IA., Ibezim NE, Nzekwe NJ, (2019) Phytochemical constituents and wound healing properties of ointment formulations of *Ocimum gratissimum* crude aqueous leaf extracts, Journal of Pharmaceutical and Allied Sciences, 16 (1): 2956-2960
- Franklin Chimaobi Kenechukwu et al (2020), Surface modified beeswax based nano lipogels as potential drug delivery system Preliminary physicochemical characterization, African Journal of Pharmaceutical Research and Development 11(2): 074-08
- Momoh A Mumuni et al.(2020) Antimicrobial Activity of Ciprofloxacin-Loaded Softisan-154 Lipid Microparticles: Physico-chemical Evaluation and *In Vitro* Activity **Acta Scientific Pharmaceutical Sciences 4(3): 1 -7**
- Onah A. Ikechukwu et al (2020) Acute Oral Toxicity Studies of the Crude Extract of Endophytic Fungi Isolated from *Annona senegalensis* Pers, Journal of Drug Delivery and Therapeutics, 10 (3):207-216

- Franklin C. Kenechukwu et al (2021), Dual-Responsive Micellar Microgels Matrixed with Surface-Engineered Lipids: a New Approach for Controlled Vaginal Drug Delivery; Journal of Pharmaceutical Innovation <https://doi.org/10.1007/s12247-021-09546-5>
- Onyi, P. N et al (2021) Prevalence Of Metallo- B- Lactamases (MBLs) In Carbapenem Non-Susceptible *Escherichia Coli* Isolated From Major Meat Sources, Journal of Pharmaceutical and Allied Sciences, 18(3):3395-3403
- Petra Nnamani et al (2022) Gentamicin nanogel films based on carragenaan-*Prosopis africana* for improved wound healing, Precision Nanomedicine, 5 (2):879-896.
- Ibezim E.C et al (2019) Phytochemical constituents and wound healing properties of ointment formulations of *Ocimum gratissimum* crude aqueous leaf extracts, JOPHAS 16 (4):381-385
- Abonyi, JI et al (2020) Pharmacokinetics and Bio-Distribution Properties of a Self-Emulsifying Drug Delivery System Containing Nevirapine. J Drug Discov Develop and Deliv. 6(1): 1035.
- Franklin Chimaobi Kenechukwu et al (2020), Solidified reverse micellar solution-based mucoadhesive nano-emulgel improves the dissolution of poorly soluble imidazole antifungal , African Journal of Pharmaceutical Research and Development, 12(1): 015-025

## 57. Phytotherapy Research Group (PREG - UNN)

**Main Research Focus:** Drug development including standardized herbal products from medicinal plants for infectious and non-infectious diseases, isolation and characterization of new bioactive molecules from natural sources that modulate enzymes that are targets for therapy, create an enriched repository of chemical marker compounds by isolating a large number of molecules to be used directly as drugs or form templates for drug discovery and for chemo profiling of medicinal plants as well as their preparations.

### **Title of most recent research project:**

Screening of Nigerian medicinal plants for antidiabetic, antiviral, anti-inflammatory, hepatoprotective, and antimicrobial activities as well as their toxicological profiles. Isolation and characterization of bioactive compounds from indigenous medicinal plants.

Formulation and standardization of herbal drugs from indigenous medicinal plants and its application in the treatment of infectious and non-infectious diseases.

Exploring the antiviral activity of nanoformulated astatine and astatine (GB-1) as potent inhibitors against SARS-CoV-2/2019-nCoV infection, and determination of the mechanism of action.

### **Other current or completed research projects**

- Isolation and characterisation of stigmasterol and  $\beta$ -sitosterol from *Starchytarpheta jamaicensis* (L) Vahl (Verbennaceae) leaves of Tropical Forest of Eastern Nigeri
- Antidiabetic and antiinflammatry potentials of apigenin (4, 5, 7 – trihydroxy flavone) from leaves of starchytarpheta jamaicensis (l) vahl (verbennaceae)



- Effect of Ursolic acid (3 - beta-3hydroxy-urs-12-ene -8-oic-acid) isolated from *Starchytarpheta jamaicensis* (L) Vahl (Verbenaceae) leaves on inflammation and blood sugar level of diabetic rat model.
- Formulation and standardization of a herbal tea and its application in the treatment of onchocerciasis (subcutaneous filariasis) : A blend of *Piper umbellatum*, *Annona senegalensis*, *Morinda lucida* and *Detarium microcarpum* for onchocerciasis therapy
- GC-MS analysis of phytoconstituents and anti-inflammatory activity of methanol leaf extract of *Cassia sieberiana* DC (Caesalpiniaceae)
- Pharmacognostic profile and anti-diabetic activity of *Jatropha tanjorensis* Linn (Euphorbiaceae) leaf on alloxan-induced diabetic rats
- Evaluation of the ant diabetic properties of methanol leaf extract and lipid profile of *Fadogia cienkowskii* Schweinf (Rubiaceae).

**Name of the Coordinator:** Prof (Mrs.) Uchenna Estella Odoh

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**UNN email address of the Coordinator:** [uchenna.odoh@unn.edu.ng](mailto:uchenna.odoh@unn.edu.ng),

**Current webpage of the RG:** <https://www.unn.edu.ng/phytotherapy-research-group-preg-unn/>

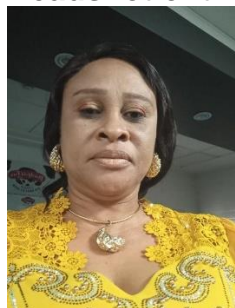
**Phone number of the RG:**

**Phone number of the Coordinator:** 08063831237

**Base Faculty/Institute/Center of the RG:**

**Department of the Coordinator:** Department of Pharmacognosy and Environmental Medicine.

#### Headshot of the Coordinator



#### List of members and brief intro

- PROFESSOR (MRS) UCHENNA ESTELLA ODOH FTWAS, FAAN, MCSN, MNSP, MRSC, CCHEM, MASP:  
Google Scholar Profile Link: <https://scholar.google.com/citations?hl=en>  
Researchgate Profile Link: [https://www.researchgate.net/profile/Uchenna\\_Odoh](https://www.researchgate.net/profile/Uchenna_Odoh)
- Prof. Mrs. Uchenna Estella Odoh holds B. Sc degree in Pure and Industrial Chemistry, Master's Degree in Pharmacognosy and Environmental Medicine, Master's Degree in Pharmaceutical and Medicinal Chemistry and Ph.D in Pharmaceutical and Medicinal Chemistry all from the University of Nigeria, Nsukka. She has been a professor of Pharmacognosy and Environmental Medicine since 2014 with area of specialization in Natural Products Chemistry, Phytochemistry, Drug evaluation and Quality Control. She has foreign research experience from her numerous research visits to many international Laboratories/institutes and have won several Awards/grants

including CSIR-TWAS Post Doc. Fellowship Award, TETFund Research grants, South African Council for Scientific Research (SACSIR) Award and South African Department of Science and Technology (DST) Award.

- PROFESSOR (MRS) STELLA INYA-AGHA: holds B. Pharm, M. Pharm and PhD degree all from University of Nigeria, Nsukka. She has been a professor of Pharmacognosy for over 15 years and area of specialization in Natural Products, Phytochemistry and impact of pollution of air, land and water on crude medicinal plants. She is the Zonal Coordinator (South-East) Herbal Committee of the Expert Committee on National Pharmacopoeia (2002 till date), Member, Advisory Board of National Association of Good Clinical Practice Relevant in Herbal Medicine Pharmacovigilance and Member of so many professional bodies.
- PROF. CHRISTOPHER OBODIKE EZUGWU: holds B. Pharm, M. Pharm and Ph.D all from the University of Nigeria, Nsukka. He has been a Professor since 2010 with area of specialization in Phytochemistry, Standardization, Phytoevaluation and Ethnobotanical evaluation. He has over hundred (100) publications in both international and National (high impact) journals, and seven (7) textbooks to his credit.
- DR. UGWOKÉ CHRISTOPHER EMEKA CHUKWUNONYE: holds B.Sc, M.Sc and Ph.D in Botany, from the University of Nigeria, Nsukka. He is a Senior Lecturer in the Department of Pharmacognosy and Environmental Medicine, University of Nigeria, Nsukka. His areas of specialization are Ethnobotany and Ethnomedicine, Phytochemistry and Crude Drug Evaluation. He has authored books (5) and has to his profile nearly 60 journal articles and many conference abstracts.
- DR. PHILIP F. UZOR: is an Associate Professor with the Department of Pharmaceutical & Medicinal Chemistry, University of Nigeria, Nsukka. He holds B. Pharm, M. Pharm and Ph.D from the University of Nigeria, Nsukka. He is a dynamic and an adept researcher with over 60 publications in both national and international journals. He is an author to many books. He is also a reviewer and an editorial board member to many national and international journals.
- DR. KENNE MICHEL TCHIMENE: Google Scholar Profile Link: <https://scholar.google.com/citations?user=TaNIBrQAAAAJ&hl=en&oi=sra>  
Research Gate Profile link: [https://www.researchgate.net/profile/Michel\\_Tchimene](https://www.researchgate.net/profile/Michel_Tchimene)
- Dr Michel Tchimene Kenne, has Masters and PhD degrees in phytochemistry/ Natural Products from University of Dschang and University of Yaounde, Cameroon respectively in the Laboratory of Professor Johnson Ayafor. Dr Michel received from national Institute of Health/ICBG, Fellowship for infectious diseases (specially Neglected Tropical disease) drug discovery and development research at International Centre for Ethnomedicine and Drug Development (InterCEDD) for 3years Under Prof MM Iwu. He later became the Director of InterCEDD till date.
- PHARM. DR FLORENCE NWAKAEGO MBAOJIL: Google Scholar Profile Link: [https://scholar.google.com/scholar?as\\_sdt=2007&q=Mbaoji+Florence+Nwakaego&hl=en](https://scholar.google.com/scholar?as_sdt=2007&q=Mbaoji+Florence+Nwakaego&hl=en)  
Research gate citation link: <https://www.researchgate.net/profile/Florence-Mbaoji/research>  
Pharmacist Dr. Florence Nwakaego Mbaoji is a female lecturer and a researcher in the Department of Pharmacology and Toxicology, Faculty of Pharmaceutical Sciences, University of Nigeria, Nsukka. She joined the services of the University in

2009 as Graduate Assistant and currently rose to the rank of Senior Lecturer in 2019. She had two Degree Certificates in Biochemistry (B.Sc. (BCH) in 1998 and Pharmacy (B. Pharm.) in 2006; Master Degree Certificate in Pharmacology and Toxicology in 2011 and Doctor of Philosophy (Ph.D.) in 2019. She specializes in Natural Products Pharmacology.

- DR. JOHN ONOJA: Dr. John Onoja is an early career scientist, a seasoned lecturer and researcher with more than five years of experience in the University with excellent teaching and track record of achieving exceptional results in academic publications and grant writing. His research work is focused on assessing natural products (medicinal plants, fungi, marine organism, bacteria) for specific biological activity and identifying active compounds in these natural products which may be used directly as drugs or form templates for drug discovery.  
 Google Scholar link: [https://scholar.google.com/citations?hl=en&view\\_op=search\\_authors&mauthor=joel+ojogbane+onoja&btnG=Research](https://scholar.google.com/citations?hl=en&view_op=search_authors&mauthor=joel+ojogbane+onoja&btnG=Research)  
 Research Gate: [https://www.researchgate.net/profile/Joel\\_Onoja](https://www.researchgate.net/profile/Joel_Onoja)
- PHARM. MICHAEL ONYEBULAM CHUKWUMA  
 Google Scholar: <https://scholar.google.com/citations?user=PSag8S0AAAAJ&hl=en>  
 Research Gate: <https://www.researchgate.net/profile/Chukwuma-Onyegbulam>  
 Michael Onyegbulam Chukwuma obtained his B. Pharm, M. Pharm, and Ph.D (Phytochemistry and Phytomedicine) from the Faculty of Pharmaceutical Sciences, University of Nigeria, Nsukka, Nigeria. He is currently a Senior Lecturer/Researcher in the Department of Pharmacognosy and Environmental Medicine of the Faculty of Pharmaceutical Sciences, University of Nigeria, Nsukka. He has published a number of research works in reputable journal and chapters in a number of edited books.
- PHARM. CHUKWUBE VINCENT OBISIKE  
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 Research Gate Link: [vincent.chukwube@unn.edu.ng](mailto:vincent.chukwube@unn.edu.ng); <https://orcid.org/0000-001-76371092>.  
 Chukwube Vincent Obisike Latin Diploma Certificate from Urban University Rome 1983 and Bachelor's Degree in pharmacy in 1996 from the Faculty of pharmaceutical sciences, university of Nigeria Nsukka, Enugu state. Having been in community pharmacy practice for more than a decade, I enrolled in the University of Nigeria Nsukka for further studies where I obtained my master degree in the department of Pharmacognosy and Environmental Medicine specializing in Phytochemistry and Natural products. At present, I have some published papers to my credit and at the terminal stage of a Ph.D. Program in Phytochemistry
- PHARM. UGWU PATIENCE NGOZI  
 Google Scholar: [https://scholar.google.com/citations?hl=en&view\\_op=list\\_works&gmla](https://scholar.google.com/citations?hl=en&view_op=list_works&gmla)  
 Research gate Link <https://www.researchgate.net/profile/Ugwu-ngozi>  
 Pharm Patience is a pharmacist, A lecturer in Defrom University of Nigeria, Nsukka. She is a Lectuerer in the Department of Pharmacognosy and Environmental Medicine, Faculty of Pharmaceutical Sciences, University of Nigeria, Nsukka. She haas research

interest in formulation dosage forms using medicinal plants and Natural products, Environmental Pharmacognosy and Phytochemistry.

- PHARM. ONYEKERE PECULIAR FEENNA.

Google

Scholar:<https://scholar.google.com/citations?user=DT2LslAAAAAJ&hl=en&oi=ao>

Research gate:[https://www.researchgate.net/profile/Felix\\_Nwafor2](https://www.researchgate.net/profile/Felix_Nwafor2)

Peculiar Feena Onyekere holds B. Pharm, M. Pharm from the University of Nigeria, Nsukka. He is a Lecturer 11 with the Department of Pharmacognosy and Environmental Medicine, University of Nigeria, Nsukka. Pharm. He is a DAAD Fellow and currently running a PhD programme with the University of Illinois, Chicago, USA. He has authored books (1), book chapters (9) and collaboratively worked and published several articles (12), conference abstracts (7) in the area of natural products in reputable journals (national and international). This has earned her a Researchgate webometric score of 12.00.

- MR. NWAFOR FELIX IFEANYI

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Scholar:<https://scholar.google.com/citations?user=DT2LslAAAAAJ&hl=en&oi=ao>

Research gate:[https://www.researchgate.net/profile/Felix\\_Nwafor2](https://www.researchgate.net/profile/Felix_Nwafor2)

Felix Ifeanyi Nwafor is an Assistant Lecturer in the Department of Plant Science and Biotechnology with parallel/joint appointment in the Department of Pharmacognosy and Environmental Medicine, UNN. He holds B.Sc. (Botany) and M.Sc. (Taxonomy and Biosystematics) from the University of Nigeria. He was trained in Herbal medicine and Field Taxonomy and is conversant with West African Flora with special skills in Plant Identification. He is a young scholar whose research interests are on Plant Taxonomy (including Chemotaxonomy and Molecular Systematics), Bioprospecting, Ethnomedicine, Herbal Remedies, Indigenous Knowledge and Pharmacognosy. He currently has over 40 publications in these areas.

## 58. Public Health & Environmental Sustainability

### Main Research Focus of the RG:

Health, economic growth and social development depend on how well the environment is harnessed. Our environment is blessed with lots of plants with medicinal value but to what extent do we mobilize the many researches we do on them to the bed-side of patients? How much of our researches look inwards (in-sourcing) at providing low-cost excipients (ingredients) for our local pharmaceutical, food and cosmetic industries, rather than out-sourcing them? Some people especially in hard-to-reach communities/areas still drink water from surface sources that are prone to environmental pollution. How well have we used these natural plants to provide low-cost water aids to assist these populations to curb diarrhoeal and other water-related diseases. Over the years, there has been gap in this area of problem-solving in our university. PHES-Research Group was established in 2015 and offers solution to these problems. Our novel plant-based anti-ulcer drug has been utilized in treating well over 1000 ulcer patients across Nigeria. We have optimized some pharmaceutical excipients (In-sourcing) to support local industries (e. g. pharmaceutical, food and cosmetic). PHES-RG has a standard water research laboratory to support quality assurance of drinking water as well as provides a patented low-cost

water-aid/purifier/device that is lab-simulated as point-of-use care in water treatment. The group also carries out research on other issues relating to environmental sustainability including consultancy and public enlightenment talks to sensitize people on water, sanitation and hygiene (WASH) program, sexual and reproductive health for improved wellbeing and achievement of other millennium Development Goals (3, 6 and 13). Our research focus covers medicinal plant research, raw material sourcing for industries, water, technology and policy as well as using the concept of nanotechnology to reformulate and/or repurpose old drugs for better targeting/specificity, lower side effects, controlled release, better acceptability and compliance, to mention but a few. In this regard, we recently developed an antimalaria nanogel for use on the intact skin; which at half-dose (50 mg) of the marketed sample, is able to release artemether (the antimalaria drug) for 1 week at a single use. This regimen is currently being patented in Australia and the research is much appreciated by malaria experts across the world e.g., malaria world (world's scientific and social network for malaria professionals) with membership of 10,905 and counting.

**Title of most recent research project:**

- Georg Forster Research Award of the Alexander von Humboldt Stiftung, Germany at Helmholtz-Institute for Pharmaceutical Research Saarland (HIPS), Saarland University, Campus, Building E8.1, 66123 Saarbruecken Germany (2018-date):

<https://www.humboldt->

[foundation.de/en/entdecken/newsroom/pressemitteilungen/awards-for-researchers-from-developing-and-transition-countries-1](https://www.humboldt-foundation.de/en/entdecken/newsroom/pressemitteilungen/awards-for-researchers-from-developing-and-transition-countries-1)

<https://campus.uni-saarland.de/forschung/humboldtpreistraegerin-aus-nigeria-forscht-an-arzneimittel-gegen-magengeschwueere>

<https://www.helmholtz-hzi.de/en/research/research-topics/bacterial-and-viral-pathogens/archiv/microbial-communication/i-wagner-doebler/>

<https://www.helmholtz-hzi.de/en/nc/research/research-topics/anti-infectives/biological-barriers-and-drug-delivery/team/>

- TechWomen Emerging Leader (2017):

<https://www.techwomen.org/?s=Petra+Nnamani>

<https://guardian.ng/news/american-embassy-honours-nigerian-techwomen/>

<http://www.newswatchnigeria.com/u-s-embassy-picks-five-nigerian-techwomen-honour/>

**Name of the Coordinator:** Prof. Dr. Petra O. Nnamani

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**Current webpage of the RG:** <https://www.unn.edu.ng/public-health-and-environmental-sustainability-research-group/>

**Phone number of the RG:** 0803 696 3979

**Phone number of the coordinator:** 0803 696 3979

**Base Faculty/Institute/Center of the RG:** Department of Pharmaceutics

**Department of the Coordinator:** Pharmaceutics

## Headshot of the coordinator:



## Brief profile of group members:

- **Team Leader: Petra O. Nnamani** (Full Professor, Department of Pharmaceutics): Senior Lecturer at the Department of Pharmaceutics, University of Nigeria, Nsukka, 410001 Nigeria. Phone: +2348036963979; E-mail: [petra.nnamani@unn.edu.ng](mailto:petra.nnamani@unn.edu.ng).
- Dr Amelia N. ODO (PhD in Health Education): Senior lecturer at the Department of Human Kinetics and Health Education, University of Nigeria, Nsukka, 410001 Nigeria Phone: +234 806 464 9495; E-mail: [ngozi.odo@unn.edu.ng](mailto:ngozi.odo@unn.edu.ng).
- Dr. Kenekwukwu N. ANUGWOM (PhD in Social Works): Senior Lecturer, Dept. of Social Works, University of Nigeria, Nsukka. Phone: +234 903 740 4304; +234 705 676 6770; E-mail: [kenekwukwu.anugwom@unn.edu.ng](mailto:kenekwukwu.anugwom@unn.edu.ng).
- Engr. Vitalis C. UKWUEZE (PhD in-view, Electrical Engineering): Network Engineer I, Information and Communication Technology, University of Nigeria Nsukka. Phone: +2348030480715, 08034689841; E-mail: [cvitalis@ymail.com](mailto:cvitalis@ymail.com)
- Dr. Simone U. ONOJA (PhD in Nutrition & Dietetics): Senior Lecturer at the University of Nigeria, Nsukka. Phone: +2348035379341; E-mail: [uwakwe.onaja@unn.edu.ng](mailto:uwakwe.onaja@unn.edu.ng)
- Dr. Ebere E. AYOJU (PhD in Clinical Pharmacy & Pharmacy Management): Senior Lecturer, Department of Clinical Pharmacy and Pharmacy Management, University of Nigeria, Nsukka, 410001 Nigeria. Phone: +234 8039307396; E-mail: [ebere.ayogu@unn.edu.ng](mailto:ebere.ayogu@unn.edu.ng)
- Prof. Anthony A. ATTAMA (PhD in Pharmaceutics): Professor at Department of Pharmaceutics, University of Nigeria, Nsukka. Phone: +234-8077488245; 08036618204; E-mail: [aaattama@yahoo.com](mailto:aaattama@yahoo.com); [anthony.attama@unn.edu.ng](mailto:anthony.attama@unn.edu.ng)

## Key publications of the RG from 2019 till date:

- Adaeze Linda Onugwu, Chinekwa Sherridan Nwagwu, Obinna Sabastine Onugwu, Adaeze Chidiebere Echezona, Chinazom Precious Agbo, Stella Amarachi Ihim, Prosper Emeh, **Petra Obioma Nnamani**, Anthony Amaechi Attama, Vitaliy V. Khutoryanskiy. Nanotechnology Based Drug Delivery Systems for the Treatment of Anterior Segment Eye Diseases. *Journal of Controlled Release* 354 (2023) 465-488.
- Onugwu A.L, Attama A.A, **Nnamani P.O.**, Onugwu S.O., Onuigbo E.B., Khutoryanskiy V.V. Development and optimization of solid lipid nanoparticles coated with chitosan and poly (2-ethyl-2-oxazoline) for ocular drug delivery of ciprofloxacin, *Journal of Drug Delivery Science and Technology*, 74 (2022) 103527. doi: <https://doi.org/10.1016/j.jddst.2022.103527>.
- **Nnamani PO et al** (2022). Wound dressings based on Carrageenan-*Prosopis africana* Gentamicin films for tissue repair. *Precision Nanomedicine (PRNano) Precis. Nanomed.* 2022 June; 5(2):879-896. <https://doi.org/10.33218/001c.35438>

- **Nnamani PO et al** (2022). Development and characterization of sustained-release artemether loaded solid lipid microparticles based on mixed lipid core and a polar heterolipid. *Afr J Pharm Res Dev* 2022; 14(1), 001-017 (2022)
- Attah AF, Akindele OO, **Nnamani PO**, Jonah UJ, Sonibare MA and Moody JO. Moringa oleifera Seed at the Interface of Food and Medicine: Effect of Extracts on Some Reproductive Parameters, Hepatic and Renal Histology. *Front. Pharmacol.* 2022, 13:816498. doi: [10.3389/fphar.2022.816498](https://doi.org/10.3389/fphar.2022.816498)
- **Nnamani PO et al** (2021). Formulation and evaluation of transdermal nanogel for delivery of artemether. *Drug Deliv. and Transl. Res.* (2021). <https://doi.org/10.1007/s13346-021-00951-4>. Pubmed ID [33742415](https://pubmed.ncbi.nlm.nih.gov/33742415/)
- **Nnamani PO et al** (2020). Fundamental properties of *prosopis africana* peel powders (PAPPs) as drug delivery excipient. *Afr J Pharm Res Dev* 12 (1); 119-133 (2020).
- **Petra Nnamani**, Ogechukwu Nnadi, Emmanuel Ibezim, Ebere Ayogu, Joy Reginald-Opara, Simon Onoja, Amelia Odo, Agatha Ugwu, Chidi Ogbonna, Anthony Attama. *In vivo* antiplasmodial potential of Carrageenan and *Prosopis africana* buccal films of artemether on malariogenic mice. *Journal of Drug Delivery & Therapeutics*. 2020; 10(1-s):114-125. DOI <https://doi.org/10.22270/jddt.v10i1-s.3790>
- A.F. Attah, J.O. Moody, M.A. Sonibare, H.H. Salahdeen, O.O. Akindele, **P.O. Nnamani**, O.A. Diyaolu, Y. Raji. Aqueous extract of Moringa oleifera leaf used in Nigerian ethnomedicine alters conception and some pregnancy outcomes in Wistar rat. *South African Journal of Botany* 129 (2020) 255–262 <https://doi.org/10.1016/j.sajb.2019.07.041>
- **Nnamani PO et al** (2019). Preparation, characterization and in vitro antibacterial property of Ciprofloxacin-loaded nanostructured lipid carrier for treatment of *Bacillus subtilis* infection. *J. Microencapsul* 2019, 36(1): 32-42.
- Ugwu AA, **Nnamani PO**, Ibezim EC, Reginald-Opara JN, Attama AA. Preliminary characterization of modified nanostructured lipid carriers as potential drug delivery systems. *Afr. J Pharma Res Dev.* 2018, 10(2): 085-090.
- Stars in Global Health Round 4 Phase I, 2013 -2015 by the Grand Challenges Canada (Grant Number 0251-01)

#### **PATENTS:**

- **P.O. Nnamani**, C.D. Lokhande, A.J. Shinde, N.R. Jadhav and M.R. Sanandam. *SOLID ORAL PHARMACEUTICAL COMPOSITION*. Nigerian patent 565, September 30, 2014 (NG/PT/NC/2014/565).
- **P.O. Nnamani** and J.N. Nwakaire. *LOW-COST WATER PURIFIER*. Nigerian patent 615, October 13, 2014 (NG/PT/NC/2014/615).

## FACULTY OF PHYSICAL SCIENCES

### 59. Analytical /Environmental Chemistry Research Group

**Focus:** This group focuses their research on studies investigating concentrations of chemical toxicants e.g trace metals, polycyclic aromatic hydrocarbons, pesticide residues, etc in food, water, soil, air, and fossil fuel with the view of examining the bioaccumulation, food-chain transfer, soil-plant transfer. From these, the human exposure risk and ecological risk will be evaluated. This group also focuses its research on developing and modifying existing analytical methods for the detection of chemical toxicants. Development of green nano adsorbents for the removal of contaminants from industrial effluents.

**Base Department/Faculty:** Pure and Industrial Chemistry /Physical Sciences

#### **Description/Concept/Justification**

Environmental pollution as a result of man's increasing activities such as burning of fossil fuels, use of agrochemicals and automobile exhaust emission has increased considerably in the past century due mainly to significant increases in economic activities and industrialization. Chemical toxicants have been introduced into the environment due to these anthropogenic activities. Heavy metals are systemic toxins with specific neurotoxic, nephrotoxic, fetotoxic, teratogenic and carcinogenic effects. PAHs have been reported to be mutagenic, genotoxic and carcinogenic. The use of pesticides is essential to control pests in agricultural crops for the production of an adequate food supply for the increasing world population. With the intensive use of pesticides in agricultural crops, residues may be accumulated at levels higher than the maximum residue levels. These halogenated hydrocarbons are well known carcinogens. Human exposure to this chemical toxicant through food and water consumption and air inhalation has aroused widespread health concern especially with regards to the increasing rate of cancer in the world.

#### **Current research projects:**

- Sequestration of Chromium (VI) from aqueous solution acid and base modified using *Diospyros Preusii* seed husk.
- Hydrochemical, corrosion, and scaling tendency assessment of River Karawa and Iyaji for irrigational application in agricultural farmland.

#### **Others are:**

- Trace metal levels in some Nigerian staple food
- Polycyclic aromatic hydrocarbons in fossil fuels
- Pesticide residues in some Nigerian food
- Water quality studies of borehole water and treated water
- Determination of BTEX in fossil fuels
- Polycyclic aromatic hydrocarbon in some Nigerian processed food.
- Evaluation of potentially harmful emissions from indoor combustion process

**Coordinator:** Prof. Janefrances Ngozi Ihedioha/ Pure and Industrial Chemistry/  
[janefrances.ihedioha@unn.edu.ng](mailto:janefrances.ihedioha@unn.edu.ng)/ 08063310841



**RG website:** <https://www.unn.edu.ng/analytical-environmental-chemistry-research-group/>

**RG email:** [analyticalrg.chemistry@unn.edu.ng](mailto:analyticalrg.chemistry@unn.edu.ng)

**Members:** Prof. Janefrances Ngozi Ihedioha; Prof. C.O.B Okoye; Prof. N.R. Ekere; Dr. C. N. Ibetto; Dr. O. L. Alum; Dr. H. O. Abugu; Mr. I. A. Ucheana; Dr. K. Ugwu; Dr. K. Agbo; Dr. A. Ofomata; Mrs. C.C. Akpomie

**Areas of research interest:**

- Levels, distribution, and fate of chemical contaminants and toxicants in biological and environmental matrices.
- Developing and modifying existing analytical methods to detect chemical contaminants and toxicants
- Examining bioaccumulation, food-chain transfer, and human exposure and risk assessments.
- Application of green chemistry approach in remediation of chemical contaminants and toxicants in the environment.
- Water pollution chemistry
- Phytochemical studies on the medicinal potential application of some plants

**Contact details of coordinator:** Prof. Janefrances Ngozi Ihedioha.  
[janefrances.ihedioha@unn.edu.ng](mailto:janefrances.ihedioha@unn.edu.ng) 08063310841



**Key publications:**

- Hillary Onyeka Abugu, Ogechi Lilian Alum\*, Nwachukwu Romanus Ekere, Ifeanyi Samson Eze, Ifeanyi Adolphus Ucheana, Arinze Longinus Ezugwu and Janefrances Ngozi Ihedioha (2023). Hydrochemical assessment of river Adada and Obinna for irrigational application, *Journal of Irrigation and Drainage Engineering* DOI: [10.1061/JIDEDH.IRENG-9899](https://doi.org/10.1061/JIDEDH.IRENG-9899)
- Aliyu Turaki Usman, Hillary Onyeka Abugu\* & Chukwuma Obiajulu Benedict Okoye (2023). Preliminary Investigation of Pollution, Impact on Milk Quality and Health Risk of Potentially Toxic Elements in Raw Milk from Free-Ranging Cattle Bred In Northwestern Nigeria, *International Journal of Environmental Analytical Chemistry*, DOI: 10.1080/03067319.2023.2166409
- Hillary Onyeka Abugu\*, Arinze Longinus Ezugwu & Janefrances Ngozi Ihedioha (2022): Assessment of Polycyclic Aromatic Hydrocarbon Contamination of Fruits, Leaves, and Soil within Automobile Repair Workshops in Nsukka Metropolis, *Polycyclic Aromatic Compounds*, DOI:10.1080/10406638.2022.2149567
- Valentine Chinakwugwo Ezea, Janefrances Ngozi Ihedioha, Hillary Onyeka Abugu\* and Nwachukwu Romanus Ekere (2022). A multi-criteria approach to drinking and irrigation water assessment of spring water in Igbo-Etiti, Nigeria, *Applied Water Science* 12:22, <https://doi.org/10.1007/s13201-022-01747-8>

- Victor Chibuikem Ehiemere, Janefrances Ngozi Ihedioha, Nwachukwu Romanus Ekere, Cynthia Nkolika Ibeto and Hillary Onyeka Abugu\* (2022). Pollution and risk assessment of heavy metals in water, sediment, and fish (*Clarias gariepinus*) in a fish farm cluster in Niger Delta region, Nigeria. *Journal of Water and Health*, 20 (6): 927, doi 10.2166/wh.2022.003
- Vivian Chinekwu Onwujiogu, Hillary Onyeka Abugu\* & Chukwuma O. B. Okoye (2022). Health risk assessment of pesticide residue in freshly harvested *Vigna subterranea* (Bambara nut) in Nsukka South Eastern Nigeria. *Environ Monit Assess* (2022) 194:536, <https://doi.org/10.1007/s10661-022-10201-w>
- Johnson S. Omeje, Jonnie N. Asegbeloyin, Janefrances N. Ihedioha Nwachukwu R. Ekere, Alfred E. Ochonogor, Hillary O. Abugu\*, Ogechi L. Alum (2022). Monitoring of pesticide residues in fresh fruits and vegetables available in Nigerian markets and assessment of their associated health risks. *Environ Monit Assess*, 194:516, <https://doi.org/10.1007/s10661-022-10139-z>
- Ifeanyi Adolphus Ucheana\*, Janefrances Ngozi Ihedioha, John Berchman Chinonye Njoku, Hillary Onyeka Abugu & Nwachukwu Romanus Ekere (2022). Migration of bisphenol A from epoxy-can malt drink under various storage conditions and evaluation of its health risk, *International Journal of Environmental Analytical Chemistry*, DOI:10.1080/03067319.2022.2098473
- S.I. Eze, H.O. Abugu\*, O.A. Odewole, N.N. Ukwueze, L.O. Alum (2022). Thermal and chemical pretreatment of *Terminalia mantaly* seed husk biosorbent to enhance the adsorption capacity for Pb<sup>2+</sup>. *Scientific African* 15 (2022). <https://doi.org/10.1016/j.sciaf.2022.e01123>
- Hillary Onyeka Abugu, Ogechi Lilian Alum, Nwachukwu Romanus Ekere, Ifeanyi Samson Eze, Ifeanyi Adolphus Ucheana, Arinze Longinus Ezugwu and Janefrances Ngozi Ihedioha (2023) Hydro chemical Assessment of Rivers Adada and Obinna in Enugu, Nigeria, for Irrigational application. *J. Irrig. Drain. Eng.* DOI: 10.1061/JIDEDH.IRENG-9899.
- Alum O.L, Okoye C.O.B and Abugu H.O (2021). "Quality assessment of groundwater in an agricultural belt in eastern Nigeria using a Water Quality Index 192 (6) 393
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- Ibeto, C.N., Nkechi, W.C. and Ekere, N.R. (2019): Health Risks of Polychlorinated Biphenyls (PCBs) Levels in Fish and Sediment from River Niger (Onitsha Axis). *Journal of Aquatic Food Product Technology*, 28:2, 138-149, DOI: 0.1080/10498850.2019.1568332. ISSN: 1049-8850.

#### Profiles and CVs of members:

- **Professor Janefrances Ngozi IHEDIOHA**  
[B.Sc. (Hons) (NAU), M.Sc., Ph.D. (Nig), MCSN, MICCON, MOWSD, MSRA-Africa]. Professor Janefrances Ngozi Ihedioha obtained her Bachelor's degree in Pure and Industrial Chemistry from Nnamdi Azikiwe University Awka. She also obtained her Master's and Doctor of Philosophy degrees from the University of Nigeria, Nsukka, specializing in Analytical and Environmental Chemistry. She is

currently a Professor in the Department of Pure & Industrial Chemistry, University of Nigeria, Nsukka. She is the current Faculty representative at the College of Postgraduate Studies, UNN, and a member of the Advisory Board of Education and Outreach of the Organisation for the Prohibition of Chemical Weapons, Hague, Netherlands. Prof. Ihedioha has published many scholarly articles in high-impact and reputable journals.

Google Scholar link:

<https://scholar.google.com/citations?hl=en&user=y8VL7J4AAAAJ>

ResearchGate link: <https://www.researchgate.net/profile/Janefrances-Ihedioha>

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- Prof. **Chukwuma Obiajulu Benedict OKOYE**. He has B.Sc. (Chem), Ibadan 1978; M.Sc. (Anal. Chem) Ibadan, 1982; Ph.D (Appl. Chem.) Ife 1989. He is a Fellow, Institute of Chartered Chemists of Nigeria (ICCON) and Member, Chemical Society of Nigeria (CSN).

Researchgate: <https://www.researchgate.net/profile/Okoye-Cob>

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EMAIL ADDRESS: [chukwuma.okoye@unn.edu.ng](mailto:chukwuma.okoye@unn.edu.ng)

- **Professor Nwachukwu Romanus EKERE** [B.Sc. (Hons) (Nig)., M.Sc (Nig)Ph.D. (FUTO), MCSN, MICCON, MSETAC] Professor Nwachukwu Romanus Ekere obtained his Bachelor's and Master's degrees in Chemistry from the University of Nigeria. He had his Doctor of Philosophy degree from the Federal University of Technology, Owerri, specializing in Analytical and Environmental Chemistry. He is currently a Professor in the Department of Pure & Industrial Chemistry, University of Nigeria, Nsukka. Prof Ekere has published many scholarly articles in journals of repute and some textbooks.

Google Scholar hyperlink:  
[https://scholar.google.com/scholar?hl=en&as\\_sdt=0%2C5&q=ekere+nwachukwu+romanus&oq=Ekere+Nwachukwu](https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=ekere+nwachukwu+romanus&oq=Ekere+Nwachukwu)

Researchgate:<https://www.researchgate.net/search/Search.html?query=ekere+nwachukwu+romanus&hsv=1d1fFTV/kNVVMPPxaTB1pioQB>

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Phone Number: +2348037417138

- Dr. Cynthia Ibeto is an Associate Professor. In 2010, she obtained her Ph.D. (Analytical Chemistry) from UNN and was an Academic Research Fellow of the National Centre for Energy Research and Development, UNN (2008-2016). She is an Environmental/Analytical Chemist working on adding value to waste materials via bioremediation. She is a member of UK Research and Innovation Peer Review College and received scholarships/awards notably; the National Young Scientist Prize for Women in Chemical Sciences (2021), Royal Society of Chemistry Research Grant (2020), Schlumberger Faculty for the Future Fellowship (2016/2017) and Analytical Chemistry Trust Fund, Developing World Scholarship (2014). She is an affiliate of the African Academy of Sciences and has received a gold award of excellence (2019) and a fellowship award (2020) for significant

contributions to the Chemical Society of Nigeria and the Chemistry profession. She is the Coordinator of Women in Chemistry (Nigeria) and has co-authored over seventy publications.

<http://www.unn.edu.ng/internals/staff/viewProfile/OTM5>

GoogleScholar: <https://scholar.google.com/citations?user=JpYCkdkAAAAJ&hl=en>

ResearchGate: [https://www.researchgate.net/profile/Cynthia\\_Ibeto](https://www.researchgate.net/profile/Cynthia_Ibeto)

- Name: Dr. Kenechukwu Ugwu  
Designation: Senior Research Fellow/Chief Research Officer  
Qualifications: B.Sc (1992), M.Sc (2010), Ph.D (2016).  
Specialization: Analytical/Environmental Chemistry and Fossil Energy  
Affiliation: Department of Pure and Industrial Chemistry & National Centre for Energy Research and Development, U.N.N.  
Position: Head, Fossil Energy Unit, National Centre for Energy Research and Development, U.N.N.  
Email address: [kenechukwu.ugwu@unn.edu.ng](mailto:kenechukwu.ugwu@unn.edu.ng)  
Phone number: 08027342382  
Citation web pages  
Google Scholar Citation webpage:  
<https://scholar.google.com/citations?hl=en&user=Q0a5LTIAAAAJ>  
Researchgate webpage  
[https://www.researchgate.net/profile/kenechukwu\\_ugwu](https://www.researchgate.net/profile/kenechukwu_ugwu)
- Dr. Kevin Emeka Agbo holds a BSc. Industrial Chemistry from the University of Benin, Benin City (2001), an MSc in Analytical Chemistry, from UNN (2010), an MSc (2015), and a Ph.D. (2022) in, Environmental Chemistry/Science and Technology from Ghent University, Belgium. He is a Lecturer at the Dept. of Pure and Industrial Chemistry, UNN, and a Principal Research Fellow at the National Center for Energy Research and Development, NCERD, UNN. His research interests include both fundamental (e.g., method development and validation, quality assurance and control) and applied (e.g., exposure measurements) aspects of environmental analytical chemistry and technology including chemical analysis of contaminants in environmental samples (soil, water, and air). Target groups are emerging contaminants; volatile organic compounds (VOCs) and residuals of pharmaceutical products. The criteria pollutants PM<sub>2.5</sub>, PM<sub>10</sub>, NO<sub>2</sub>, SO<sub>2</sub>, and O<sub>3</sub> and climate enforcers including CH<sub>4</sub>, N<sub>2</sub>O, CO<sub>2</sub>, and black carbon are also targeted. Air quality monitoring and modeling for effective air quality management and public health protection are also part of his research work. Projects concluded include (i) VLIR OUS Belgium Government sponsored (2013-2015), (ii) Project COMBINE funded by European Regional Development Funding through INTERREG IVB; 'Investing in Opportunities'. 2015, and (ii), BOF Ghent University Special Research Fund, 2019-2022.  
Google Scholar link: [https://scholar.google.com/citations?user=-PD\\_lysAAAAJ](https://scholar.google.com/citations?user=-PD_lysAAAAJ)  
ResearchGate link: <https://www.researchgate.net/profile/Kevin-Agbo/research>  
ORCID link: <https://orcid.org/0000-0002-1433-9473>
- Anthony Chibuzo Ofomatah (Ph.D.), MIPAN, MCSN, MICCON, MSES. Chartered Chemist/Public Analyst. Senior Research Fellow, Department of Pure

and Industrial Chemistry, University of Nigeria, Nsukka. Deputy Director (Research), National Centre for Energy Research and Development, University of Nigeria Nsukka. +2348034010807

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Email address: [anthony.ofomatah@unn.edu.ng](mailto:anthony.ofomatah@unn.edu.ng)

- Ogechi Lilian Alum, Environmental/Analytical Chemistry Unit Department of Pure and Industrial Chemistry, University of Nigeria, Nsukka, Enugu State, Nigeria  
Dr. Ogechi Lilian ALUM, a Nigeria in Chemistry Discipline and Doctoral Field, Analytical/Environmental Chemistry from the University of Nigeria, Nsukka, 2019. She is a Lecturer in the Department of Pure and Industrial Chemistry since June 2016 at the University of Nigeria, Nsukka; Research Assistant (NCERD), 2010; Quality Control Officer University Water Resources 2013-2016; Environmental Assessor 2015-Date.
- She has carried out a research project(s) on ground and surface waters in rural areas of South-eastern Nigeria.
- She is a member of the Chemical Society of Nigeria (CSN), a Member Organization for Women in Science for the Developing World (OWSD), Student Member of Public Analysts of Nigeria (IPAN).
- Her research ambition(s) for Africa includes studies on water quality in rural areas with an emphasis on the risks, toxic and health implications; partnering with youths on water treatments using available local materials, drawing the attention of the environmental regulatory agencies with evidence of this study to the human concern within the vicinity, advising farmers on best agricultural practices and campaign against open defecation. Using the study as a framework for planning, further assessment, monitoring, and aid for Environmental Impact Assessment.  
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Phone number: +2348060855490  
<https://scholar.google.com/citations?user=v4wjeo8AAAAJ&hl=en>  
ORCID: <https://orcid.org/0000-0002-8794-8632>  
Research gate: <https://www.researchgate.net/profile/Ogechi-Alum>
- Ifeanyi Adolphus Ucheana, M.EM (Environmental Management) Bayero University Kano and B.Tech (Industrial Chemistry) Federal University of Technology Owerri. Technologist 1, Central Science Laboratory, University of Nigeria, Nsukka, Nigeria.  
Research gate: <https://www.researchgate.net/profile/Ifeanyi-Ucheana>  
Google Scholar: <https://scholar.google.com/citations?user=yYUzNcYAAAAJ&hl=en>  
ORCID: <https://orcid.org/0000-0002-3244-2618>
- Dr. Hillary Onyeka Abugu [B.Sc. (Hons), M.Sc., Ph.D., PGDE, MCSN, MIPAN, MNES, MRSC]  
Hillary Onyeka Abugu obtained his Bachelor's degree, Master and Doctorate from Nnamdi Azikiwe University Awka, specializing in Analytical and Environmental Chemistry. He also obtained Postgraduate Diploma in Education (PGDE) from the National Teacher Institute (NTI), Kaduna. He is currently in the Environmental analytical chemistry unit of the Department of Pure & Industrial Chemistry, University of Nigeria, Nsukka. Abugu has published many scholarly articles in high-impact and reputable peer-reviewed journals.

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- Chidinma Christiana Akpomie was born in Aba in Abia state, Nigeria. She began her academic pursuit in 1996 at St Bridget Primary School in Abayi, Aba in Abia state, Nigeria. In the year 2000, she started her secondary education at Federal Government Girls College, Owerri, Imo state, Nigeria. Chidinma started her university education in the year 2006 at the University of Nigeria Nsukka, Enugu state, Nigeria. Due to her academic excellence in obtaining a first class in the Department of Pure and Industrial Chemistry, she was offered the post of graduate assistant in 2013 after her youth service. In 2014, Chidinma proceeded to do her master's program at the University of Aberdeen, Scotland, United Kingdom. She obtained her master's degree in 2015. After serving the university for two years, she proceeded to her Ph.D. program in 2018 at the University of Pretoria, Gauteng, South Africa. She is rounding up her Ph.D. program. Chidinma is a Lecturer I in the Department of Pure and Industrial Chemistry, University of Nigeria Nsukka. She teaches and supervises undergraduate students. She also coordinates courses in the department.

Google Scholar citation link:

<https://scholar.google.com/citations?user=37b7zTwAAAAJ&hl=en>

Research Gate citation link:

<https://www.researchgate.net/profile/Chidinma-Ezeofor>

## 60. Applied Statistics and Data Mining

**Main research focus and other areas of research interest of the RG:** Statistical Modelling/Big data analysis and its application to Stochastic/ Time series Analysis, Design and Analysis of Experiment, Bayesian Inference and Operations research.

**Title of most recent research project:** Combined Estimators for Generalized Multiple Linear Models

**Other current or completed research projects:** Circular Time Series Modeling; Jackknife Estimator for regression models; Combined shrinkage ridge estimator for multiple linear models; Estimation in Time series models with skewed error distribution.

**Name of the Coordinator:** Professor Fidelis Ifeanyi Ugwuowo

**UNN email address of the RG:** [appliedstat@unn.edu.ng](mailto:appliedstat@unn.edu.ng)

**UNN email address of the coordinator:** [fidelis.ugwuowo@unn.edu.ng](mailto:fidelis.ugwuowo@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/applied-statistics-and-data-mining/>

**Phone number of the RG:** 07035089574

**Phone number of the coordinator:** 07035089574

**Base Faculty/Institute/Center of the RG:** Physical Sciences

**Department of the Coordinator:** Statistics

## Headshot of the coordinator:



## List and brief profiles of members with their UNN website url to their detailed CVs:

- Professor Fidelis Ifeanyi Ugwuowo  
UGWUOWO, Fidelis Ifeanyi is a Professor of Statistics in the Faculty of Physical Sciences, University of Nigeria, Nsukka. He joined the services of the University as assistant lecturer in April 1992. He was sponsored by World Bank to University of Ulster Coleraine, Northern Ireland, UK to conduct his Ph.D. research, which was awarded by his University in 1996. He has been a visiting scientist at Indian Statistical Institute Kolkata, India under the auspices of TWAS-UNESCO Associateship scheme, which was awarded to him for 2000-2003 and later renewed for 2003-2006. He was the Dean of Faculty of Physical Sciences UNN from 2016-2018 and a three time Head of Department of Statistics. His recent research interests are mainly in the areas of statistical modelling and Stochastic and Time Series analysis. He has successfully supervised 8 Ph.Ds and currently supervising 3 Ph.Ds. He was appointed a full Professor in 2010. He has taught full-time for 31 years.  
CV LINK: <https://docs.google.com/document/d/1wYc2-BK7pKQcJR5i2FX9wANxNxzHjBAsGdfENBiPu2Q/edit?usp=sharing>
- Dr Tobias E. Ugah: He received his M.Sc. and Ph.D. degree in Statistical inference and Stochastic Processes, respectively, from Department of Statistics, Faculty of Physical Sciences, University of Nigeria, Nsukka, Nigeria in 2002 and 2014, respectively. He is a lecturer in the Department of Statistics, Faculty of Physical Sciences, University of Nigeria, Nsukka, Nigeria. He is the author of one book and more than 10 publications. His research interests include Regression Diagnostics, Stochastic processes and Statistical Inference.  
E-mail: [tobias.ugah@unn.edu.ng](mailto:tobias.ugah@unn.edu.ng); ORCID iD: [0000-0003-0223-1032](https://orcid.org/0000-0003-0223-1032)  
LINK TO MY C.V.  
<https://docs.google.com/document/d/1zKIBiCjKt0IEq9JXM3y8iFpzSg8hWlpQtQJnGK1OC4/edit>
- Dr. Eze Chinonso Michael: He has B.Sc, M.Sc and Ph.D in Statistics, all from University of Nigeria Nsukka. He joined the services of the University in the year 2016 as a graduate assistant, and currently he is in the cadre of Lecturer I. He was a PhD student on visit from January – October, 2020 under Intra-Africa Academic Mobility AFRICOM Project at University of Yaounde 1, Cameroon. He got his doctorate degree in the year 2023. His research interest cuts across applied time series analysis, Operations research and Statistical machine learning of complex system.  
CV Link: [https://docs.google.com/document/d/1ZsbYmAwrM\\_gXn\\_W9QjI-BmurhU4spjMCZ\\_312LV4CH8/edit?usp=sharing](https://docs.google.com/document/d/1ZsbYmAwrM_gXn_W9QjI-BmurhU4spjMCZ_312LV4CH8/edit?usp=sharing)

- Arum, Kingsley Chinedu: A Lecturer I in the Department of Statistics, University of Nigeria, Nsukka (UNN). He obtained a B.Sc. certificate in Statistics in 2011 in UNN as the best graduating student (BGS) of the Department of Statistics in 2011 session, M.Sc. certificate in 2016 and currently a PhD student in the Department of Statistics, UNN. His research interests include generalized linear models, stochastic processes, time series modeling, and data science.

Scopus ID: <https://www.scopus.com/authid/detail.uri?authorId=57289497700>  
 ResearchGate: <https://www.researchgate.net/profile/Kingsley-Arum-2>  
 Google Scholar: <https://scholar.google.com/citations?user=m00OZ1oAAAAJ&hl=en&oi=ao>  
 ORCID: <https://orcid.org/0000-0001-5754-5536>  
 Publon ID: <https://publons.com/researcher/4860761/kingsley-arum/>  
 Web of Science ID: [ABG-3535-2021](https://www.webofscience.com/wos/author/uri?uri=au%3A%2FABG-3535-2021)  
 CV: <https://docs.google.com/document/d/1x5MQjwmTV7BiKOhwN0APuKVuF8ejW4asZ1WRyTCIgeA/edit>
- Oranye Henrietta Ebele: A lecturer in the Department of Statistics, University of Nigeria Nsukka with over 8 years' experience in lecturing. She is strong in statistical computing, evaluation of data and highly skilled at statistical modeling. She has 15 publications with both local and international journals indexed in SCImago (SJR), Scopus and Web of Science. Area of specialization includes: Generalized linear models, Hybrid modeling, estimation and Data mining.

<https://docs.google.com/document/d/1kqZJ9WbBM2334YT65mqwdT6gaG04nygp5zv5VSCoiic/edit?usp=sharing>
- Onwuamaeze, Charity Uchenna: A lecturer with the University of Nigeria, Nsukka. She received the M.Sc degree in Design and Analysis of Experiment from the University of Nigeria, Nsukka in 2013 and currently a PhD student in the same University. She has authored over 8 papers in top journals and prestigious conferences. Her research interest includes Statistical Experimental Design, Biostatistics, Statistical, Distributions and Data Analysis.

The link to my Curriculum Vitae: [https://docs.google.com/document/d/1nIN3k8aWY1HJj3RWYL\\_oTkAP4MwOhvD3Ni4qU28-dSs/edit](https://docs.google.com/document/d/1nIN3k8aWY1HJj3RWYL_oTkAP4MwOhvD3Ni4qU28-dSs/edit)  
 The link to my ResearchGate: <https://www.researchgate.net/profile/Charity-Uchenna-2>
- Mr. Ugwu Samson Offorma: An academic staff of the department of Statistics, University of Nigeria Nsukka (UNN) with over seven years of lecturing experience in the above named University. He is currently a lecturer II with the department of statistics. He has seven international publications. His research interest is on quality/process control. <https://docs.google.com/document/d/1-ZwdnH0xKXFQG0xafRqh4Ad5QVbrH46dlpBqui0vh8/edit?usp=sharing>
- Nnaemeka Martin Eze: A lecturer with the University of Nigeria, Nsukka. He obtained Bachelor of Science in Statistics from University of Nigeria, Nsukka and Master of Science in Statistics from University of Ibadan, Ibadan, Nigeria. My research focuses on the use of mathematical and statistical methods to develop statistical model. He has the skill of using computer applications and programming



languages such as R programming language, Python programming language, Statistical Package for Social Sciences (SPSS) and Minitab to handle any data analysis. The link to my CV: <https://docs.google.com/document/d/1ixZNTthh-I0D3tWLMJfWEDDpF3r6DQdGEqudyabOESDM/edit>

The link to my ResearchGate <https://www.researchgate.net/profile/Nnaemeka-Eze>

The link to my google scholar <https://scholar.google.com/citations?user=-uF8h6QAAAAJ&hl=en&authuser=1>

### **10 key publications of the RG from 2019 till date:**

- ARUM, K.C et al (2020). Time Series Model Comparative Approaches in Analyzing Accident and Emergency Departmental Demand in Eastern Nigeria. African Journal of Mathematics and Statistics Studies, 3(5): 55-62.
- EZE, C.M.,CHANTCHO, B., MOYOUWOU,I. and UGWUOWO, F.I. (2021). A New value for Tu-Games: the rank Shapley value. Pakistan Journal of Statistics, 37(3):237-251
- ORANYE H.E AND UGWUOWO, F.I. (2021) Modified jackknife Kibria–Lukman estimator for the Poisson regression model, Concurrency and Computation: Practice and Experience, DOI: <https://doi.org/10.1002/cpe.6757>
- UGWUOWO, F.I., ORANYE H.E. and ARUM, K.C. (2022). On jackknife Kibria–Lukman estimator for the Linear regression model, Communications in Statistics-Simulation and Computation, DOI: <https://doi.org/10.1080/03610918.2021.2007401>
- ARUM, K.C. AND UGWUOWO F.I. (2022). Combining principal component and robust ridge estimators in linear regression model with multicollinearity and outlier, Concurrency and Computation: Practice and Experience, <http://doi.org/10.1002/cpe.6803>
- UGWUOWO F.I. & UDOKANG A.E. (2022) Modelling Circular Time Series with applications. In: A. SenGupta and B. C. Arnold (eds.), Directional Statistics for Innovative Applications, Forum for Interdisciplinary Mathematics, PP. 407 – 424, Springer Nature Singapore Pte Ltd. 2022, [https://doi.org/10.1007/978-981-19-1044-9\\_22](https://doi.org/10.1007/978-981-19-1044-9_22).
- SHEWA, G.A. and UGWUOWO, F.I. (2022). Combating the Multicollinearity in Bell Regression Model: Simulation and Application. Journal of the Nigerian Society of Physical Sciences 4(3) 713. <https://doi.org/10.46481/jnsps.2022.713>
- SHEWA, G.A. and UGWUOWO, F.I. (2022). Kibria-Lukman Type Estimator for Gamma Regression Model, Concurrency Computat Pract Exper. 2022;e7441.
- ARUM, K.C., UGWUOWO F.I. AND ORANYE H.E. (2022). Robust Modified Jackknife Ridge Estimator for the Poisson Regression model with Multicollinearity and Outliers, Scientific African, <https://doi.org/10.1016/j.sciaf.2022.e01386>
- SHEWA, G.A. and UGWUOWO, F.I. (2022).A New Hybrid Estimator for Linear Regression Model Analysis: Computations and Simulations. Scientific African, <https://doi.org/10.1016/j.sciaf.2022.e01441>
- ARUM, K.C., UGWUOWO F.I., ORANYE H.E., ALAKIJA, T.O., UGAH T.E. AND ASOGWA O.C. (2023). Combating Outliers and Multicollinearity in linear Regression model using Robust Kibria-Luckman mixed with principal component Estimator, Simulation and Computation. Scientific African, <https://doi.org/10.1016/j.sciaf.2023.e01566>

## 61. Astronomy and Astrophysics research group

**Main research focus and other areas of research interest of the RG:** Radio Astronomy: Astrophysics of Compact Objects, Pulsar Timing, Galactic and extragalactic radio sources, Optical and X-ray Astronomy: Star formation and stellar evolution, Asteroseismology, Cosmic rays

**Title of most recent research project:** Multi-wavelength Study of Blazars across Cosmic Time

### Other current or completed research projects

- (1) Pan-African Planetary and Space Science Network (PAPSSN) – Intra-Africa Academic Mobility Programme
- (2) Focus on Africa Space Science for Future Development (FAST4Future)

**Name of the Coordinator:** Prof. Augustine A. Ubachukwu.

**UNN email address of the RG:** [astronomyandastrophysics.rg@unn.edu.ng](mailto:astronomyandastrophysics.rg@unn.edu.ng)

**UNN email address of the coordinator:** [augustine.ubachukwu@unn.edu.ng](mailto:augustine.ubachukwu@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/astrophysics-research-group/>

**Phone number of the RG:** +234 (0) 8037734303

**Phone number of the coordinator:** +234 (0) 8037734303

**Base Faculty/Institute/Center of the RG:** Faculty of Physical Sciences

**Department of the Coordinator:** Department of Physics and Astronomy

### List and brief profiles of members (one paragraph per member) with their UNN website url to their detailed CVs (hyperlinks are OK)

1	Prof. Augustine A. Ubachukwu
2	Finbarr Chidi, Odo hails from Enugu State of Nigeria. He holds a PhD degree in astrophysics from University of Nigeria and currently teaches Physics & Astronomy at the university. He is a team member of the Pan-African School of Emerging Astronomer and Assistant Editor-in-Chief of Publication of the Astronomical Society of Nigeria
3	Dr Innocent O. Eya is a lecturer in the Department of Science Laboratory Technology (Physics/Electronics technique), Faculty of Physical Sciences, University of Nigeria, Nsukka, Nigeria, where he teaches undergraduate physics courses. He coordinates the Physics/Electronics Techniques of the department, where he reports directly to the Head of the Department. He is a Consortium Board member and UNN Local Contact Person (LCP) of the Pan African Planetary and Space Science Network (PAPSSN) and also a member of the Focus on Africa Space Science and Technology for Future Development (FAST4Future). His research interests are the Astrophysics of compact objects, Pulsar Timing, Galactic and extragalactic radio sources and Atmospheric cosmic ray counts, where he has done some work on neutron star rotational irregularities, especially in Pulsar Glitches. Also, he has collaborated with researchers in Extragalactic Astronomy, especially in the unification of Active Galactic Nuclei (AGN).

4	<p>Christian Ikechukwu Eze is a lecturer I at the Department of Physics and Astronomy, University of Nigeria, Nsukka, Nigeria (UNN) and formerly, a Consortium Board member and UNN Local Contact Person (LCP) of the Pan African Planetary and Space Science Network (PAPSSN). He is also a Ph.D. student at the Nicolaus Copernicus Astronomical Center (CAMK) of the Polish Academy of Sciences, Warsaw, Poland and a scholar at the Geoplanet Doctoral School, Warsaw, Poland. Christian is a member of some international consortia/collaborations and professional organizations such as Focus on Africa Space Science and Technology 4 Future development (FAST4Future), African Astronomical Society (AFAS) and Astronomical Society of Nigeria (ASN). His research areas include: Asteroseismology, Stellar Variability, Neutron stars and Active Galactic Nuclei (AGN).</p> <p><a href="mailto:eze.christian@unn.edu.ng">eze.christian@unn.edu.ng</a></p>
5	<p>Dr. Evaristus Iyida is a lecturer and researcher in the Department of Physics and Astronomy, University of Nigeria. He holds B.Sc (Physics and Astronomy), M.Sc., Ph.D (Astrophysics) obtained from the Department of Physics and Astronomy, University of Nigeria, Nsukka. His research interests are in the broad areas of Extragalactic Astronomy/Evolution of active galactic nuclei, Forbush Decreases/Reductions in the galactic cosmic ray and Phenomenology of timing irregularities in Pulsars. Dr. Evaristus Iyida has published many research works in peer-reviewed journals both locally and internationally.</p> <p><a href="mailto:uzochukwu.iyida@unn.edu.ng">uzochukwu.iyida@unn.edu.ng</a></p>

### Members Google Scholar Citation links

	Name	link
1	Prof. Augustine A. Ubachukwu	<a href="https://scholar.google.com/citations?user=qj1tUXQAAA&amp;hl=en">https://scholar.google.com/citations?user=qj1tUXQAAA&amp;hl=en</a>
2	Dr Finbarr Chidi	<a href="https://scholar.google.com/citations?user=Bp79QT8AAAJ&amp;hl=en">https://scholar.google.com/citations?user=Bp79QT8AAAJ&amp;hl=en</a>
3	Dr Innocent O. Eya	<a href="https://scholar.google.com/citations?hl=en&amp;user=GeSo4AAAAAJ">https://scholar.google.com/citations?hl=en&amp;user=GeSo4AAAAAJ</a>
4	Eze, Christian Ikechukwu	<a href="https://scholar.google.com/citations?hl=en&amp;user=RP87MKkAAAAAJ">https://scholar.google.com/citations?hl=en&amp;user=RP87MKkAAAAAJ</a>
5	Dr. Evaristus Iyida	<a href="https://scholar.google.com/citations?user=7LT0DUA AAAJ&amp;hl=en&amp;oi=ao">https://scholar.google.com/citations?user=7LT0DUA AAAJ&amp;hl=en&amp;oi=ao</a>
6	Prof. Augustine Ejikeme Chukwude	<a href="https://scholar.google.com/citations?user=JlQ5lFwAAA AJ&amp;hl=en">https://scholar.google.com/citations?user=JlQ5lFwAAA AJ&amp;hl=en</a>
7	Prof. Johnson O. Urama	<a href="https://scholar.google.com/citations?user=TemvFB8AAAJ&amp;hl=en">https://scholar.google.com/citations?user=TemvFB8AAAJ&amp;hl=en</a>
8	Dr. O Okike	<a href="https://scholar.google.com/citations?user=WV2oQ6oA AAAJ&amp;hl=en">https://scholar.google.com/citations?user=WV2oQ6oA AAAJ&amp;hl=en</a>
9	Dr. Jibrin A. Alhassan	<a href="https://scholar.google.com/citations?user=EdLCcaoAAAJ&amp;hl=en">https://scholar.google.com/citations?user=EdLCcaoAAAJ&amp;hl=en</a>

### Members Researchgate links

	Name	link
1	Dr Innocent O. Eya	<a href="https://www.researchgate.net/profile/Innocent_Eya">https://www.researchgate.net/profile/Innocent_Eya</a>
2	Eze, Christian Ikechukwu	<a href="https://www.researchgate.net/profile/Christian-Eze-4">https://www.researchgate.net/profile/Christian-Eze-4</a>
3	Dr. Evaristus lyida	<a href="https://www.researchgate.net/profile/Evaristus-lyida">https://www.researchgate.net/profile/Evaristus-lyida</a>

### 10 key publications of the RG from 2019 till date

1. J.A Alhassan., O. Okike & A.E Chukwude, 2022, "Testing the Simultaneity of Forbush Decreases with Algorithm-Selected Forbush Event Catalogue" *J. Astrophys. Astr.* 43:6 <https://doi.org/10.1007/s12036-021-09790-8>
2. O.Okike & J.A Alhassan. 2022 "Preliminary Investigation of the Multivariate Relations between Program Selected Forbush Decreases, Worldwide Lightning Frequency, Sunspot Number and other Solar-Terrestrial Drivers" *Eur. Phys. J. Plus* 137:317, <https://doi.org/10.1140/epjp/s13360-022-02514-z>
3. I. O. Eya., J. A. Alhassan., E. U. lyida ., A. E. Chukwude & J. O. Urama. 2022, "On the Pulsar Spin Frequency Derivatives and the Glitch Activity" *Astrophys. and Space Science.* 367:28 <https://doi.org/10.1007/s10509-022-04059-0>
4. J.A Alhassan., O. Okike & A.E Chukwude, 2022, "Testing the Empirical Relationship between Forbush Decreases and Cosmic Ray Diurnal Anisotropy" *Res. Astron. Astrophys*, 22:055014. <https://doi.org/10.1088/1674-4527/ac5ee9>
5. R. E. Ugwoke ., A. A. Ubachukwu., J. O. Urama., O. Okike., J. A. Alhassan & A. E. Chukwude, 2022, "Analysis of Ground Level Enhancement Events of 1989 September 29; 2001 April 15 and 2005 January 20" *Res. Astron. Astrophys*, 23:035017, 22:105008, <https://doi.org/10.1088/1674-4527/ac8b58>
6. E.U. lyida, I.O. Eya & C.I. Eze, 2022, "Testing the Consistency of Unified Scheme of Seyfert Galaxies" *J. Astron. Space Sci.* 39 (2), 43-50.
7. E.U. lyida, C.I. Eze & F.C. Odo, 2022, "On the evolution of Seyfert galaxies, BL Lacertae objects and flat-spectrum radio quasars" *Astrophysics and Space science*, **367**, 11 <https://doi.org/10.1007/s10509-022-04042-9>
8. E.U. lyida, F.C. Odo, A.E. Chukwude & A.A. Ubachukwu, 2022, "Multi-frequency study of spectral indices of BL Lacertae objects and flat-spectrum radio quasars" *New Astronomy.* 90, 101666, <https://doi.org/10.1016/j.newast.2021.101666>
9. C. I. Eze, E. U. lyida, I. O. Eya, 2022, "On the fractional glitch recoveries and pulsar spin properties" *Astronomische Nachrichten*, 343 (5), e210086. <https://doi.org/10.1002/asna.20210086>
10. **C. J. Ugwu.**, J. O. Chibueze ., J. Morgan., T. Csengeri., **A. E. Chukwude.**, D. J. van der Walt & **J. A. Alhassan** 2023, "Probing gas kinematics towards the high-mass protostellar object G358.46 -0.39", *MNRAS* 520, 4747–4759, <https://doi.org/10.1093/mnras/stad376>

## 62. Biomathematics and Modelling Research Group

**Main Research Focus and other areas of research interest of the RG:** Epidemiological disease Models, Ecosystem and Ecological Models, Non-epidemiological disease Models, Fluid and Cardiovascular flow models and Environmental and Climate change models. Mathematical modelling in general.

**Most recent research project:** Mathematical Modelling Approach of the Study of Ebola Virus Disease Transmission Dynamics in a Developing Country.

**Other current or completed research projects:**

On Viral penetration in a Cell

On fluid flow over porous media

On Ebola disease in a low socio-economic status community in a developing society.

Covid-19, its infectiousness and transmission dynamics

On Nipah virus transmission and control

On Zika Virus disease co-infection with Malaria

**Name of the coordinator:** Professor Godwin Christopher Ezike Mbah

**UNN email address of the RG:** [biomathsunn@unn.edu.ng](mailto:biomathsunn@unn.edu.ng)

**UNN email address of the coordinator:** [godwin.mbah@unn.edu.ng](mailto:godwin.mbah@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/biomathematics-and-modelling-research-group/>

**Phone number of the RG:** +2348074934672

**Phone number of the coordinator:** +2348034198454

**Base Faculty/Institute /Centre of the RG:** Faculty of Physical Sciences

**Department of the coordinator:** Mathematics

**Headshot of the coordinator**



**List and brief profiles of members:**

**Professor G. C. E. Mbah:** He had his first and second degrees from the University of Benin, Benin City, Edo State Nigeria in the years 1985 and 1988 respectively specializing in Applied Mathematics. He later obtained his Ph.D in Applied Mathematics (Biomathematics and Cardiovascular Flow Dynamics ) from the University of Nigeria, Nsukka under the supervision of Professor John. C. Amazigo in the year 1998. He has been a lecturer in many universities but has been in University of Nigeria Nsukka since 1998. Currently he has successfully completed supervision of 25 Ph. D and 82 M.Sc students in Applied Mathematics most especially in Biomathematics and Fluid Dynamics. He is still supervising about 30 Ph.D and 8 M.Sc students in Applied Mathematics

(Biomathematics, Fluid Dynamics and Ecology) at UNN, ESUT and UniZik . He has successfully published over 115 journal articles in very reputable journals and over 8 text books in Mathematics at both Tertiary/University and Secondary Levels. One of his new books in Applied Mathematics covering the areas of Dynamics of particles and rigid body systems, Mechanics, Vectors and their applications to real life system was accepted and currently undergoing mass production by the TETFund, Nigeria. He was promoted full Professor of the University of Nigeria in the year 2009.

**Assoc. Professor Cornelius Obiora Collins:** Had his first (First Class Honours) and second degrees from the university of Nigeria, Nsukka in the years 2006 and 2009 respectively specializing in Applied Mathematics. He later obtained his Ph.D from South Africa at the University on KwaZulu-Natal in 2014 also specializing in Applied Mathematics . He had his Postdoctoral Training at the Durban University of Technology in South Africa in the years 2014 – 2018. He has extensively published in highly rated journals with well over 26 articles in Biomathematics models in epidemiology, Ecology, and conventional Mathematical Models. He was promoted Associate Professor in 2021.

**Chukwuma Christopher Asogwa:** He had his first (B.Sc), second (M.Sc) and third (Ph.D) degrees from the University of Nigeria, Nsukka in the years 1991, 2007 and 2018 respectively. He specialized in Applied Mathematics and specifically in the area of Biomathematics. He was supervised at the M.Sc and Ph.D. levels by Professor GCE Mbah. Dr. C. C. Asogwa was promoted Lecturer I in the year 2018.

**Chukwudi Okoye:** He had his first (B.Sc), second (M.Sc) and third (Ph.D) degrees from the University of Nigeria, Nsukka in the years 2005, 2012 and 2020 respectively specializing also in Mathematical Modelling. He was equally supervised at his M.Sc and Ph.D. levels by Professor G. C. E. Mbah. He is currently a Lecturer I in the Department of Mathematics, University of Nigeria, Nsukka.

**Ifeanyi Sunday Onah:** He graduated B. Sc. (Ed) (first Class Honours) from the department of Science Education specializing in Education Mathematics, in the year 2009 at the University of Nigeria, Nsukka. He later enrolled and graduated M.Sc and Ph. D Applied Mathematics ( Epidemiological Modelling) at the same University of Nigeria, Nsukka in the years 2015 and 2021 respectively. He was supervised at these later two levels of education by Professor G. C. E. Mbah. He is currently undergoing another Ph.D degree training in Fluid Dynamics at the University of Glasgow, UK. Dr. Onah S. I has published 14 articles in very high impact factor journals.

**Note:** All our Ph.D students are usually part of the research team most especially when handling particular research projects.

#### **Members Google Scholar Citation links**

- Godwin C. E. Mbah:  
<https://scholar.google.com/citations?user=EmDodM8AAAAJ&hl=en>
- Onah, S. I: <https://scholar.google.com/citations?user=Yn4iatIAAAAJ>

- Chukwudi  
[https://scholar.google.com/citations?user=\\_Ws0GqkAAAAJ&hl=en](https://scholar.google.com/citations?user=_Ws0GqkAAAAJ&hl=en)

Okoye:

### Members Researchgate links

- <https://www.researchgate.net/profile/Godwin-Mbah>
- <https://www.researchgate.net/scientific-contributions/Obiora-C-Collins-2047552065>
- <https://www.researchgate.net/profile/Christopher-Chukwuma>
- <https://www.researchgate.net/profile/Chukwudi-Okoye>
- <https://www.researchgate.net/profile/Ifeanyi-Onah-3>

### 10 key publications of the RG from 2019 till date

- Cornelius Ogbonna Didigwu, Ifeanyi Sunday Onah, Godwin Christopher Mbah (2021): Chemically reacting magneto-hydrodynamics (MHD) fluid flow through a porous Medium. *Journal of Mathematical and Computational Science*. Vol. 11 (5). Scopus
- William, Atokolo, Remigius Okeke Aja, Stephen Ekwueme Aniaku, Sunday Ifeanyi Onah and Godwin C. E. Mbah (2022); Approximate Solution of the Fractional Order Sterile Insect Technology Model via the Laplace-Adomian Decomposition Method for the Spread of Zika Virus Disease. *International Journal of Mathematics and Mathematical Sciences*. Volume 2022 (), 1 – 24. Article ID 2297630, 24 pages (Hindawi Journal) <https://doi.org/10.1155/2022/2297630>
- Ahman Queeneth Ojoma, Omale David, Asogwa Christopher Chukwuma, Nnaji Daniel Ugochukwu and Mbah Godwin Christopher Ezike (2020): Transmission Dynamics Of Ebola Virus Disease with Vaccine, Condom Use, Quarantine, Isolation And Treatment Drug. *African Journal of Infectious Diseases (AJID)*. Vol. 15, Issue 1, Pg 10 – 23. <https://doi.org/10.21010/ajid.v15i1.2>.
- Ifeanyi Sunday Onah, Obiora Cornelius Collins, Praise-God Uchechukwu Madueme and Godwin Christopher Ezike Mbah (2020): Dynamical System Analysis and Optimal control measures of Lassa Fever Disease Model. *Int. J. of Mathematics and Mathematical Sciences*, Vol. 2020 [doi.org/10.1155/2020/7923125](https://doi.org/10.1155/2020/7923125).
- C. Okoye, O. C. Collins and G.C.E.Mbah (2020) :Mathematical Approach to the Analysis of Terrorism Dynamics. *Security Journal*. [Doi.org//10.105/s41284-020-00235-5](https://doi.org/10.105/s41284-020-00235-5) Pp 117 – 127. Vol. 33(7)
- Onah, I. S., & Collins, O. C. (2020). Dynamical System Analysis of a Lassa Fever Model with Varying Socioeconomic Classes. *Journal of Applied Mathematics*, 2020.
- Oshilim, E. and G. C. E. Mbah (2020) : Pressure Variation in a Fluid Flow Over Non-uniform Porous bottom Topography. *Open Access Library Journal* Vol. 7 Issue 1 <https://doi.org/10.4236/oalib.1106033>.
- Ugwu, K. O., Onah, S.I., Mbah, G.C.E. and Ezeonu, I. M. (2020): Rifampicin resistance Patterns and Dynamics of Tuberculosis and Drug-Resistant Tuberculosis in Enugu, SouthEastern Nigeria. *Journal of Infection in Developing Countries*. Vol. 14 (9). Pp. 1011 – 1018 DOI: 10.3855/jidc.12736
- Onah, I. S., Adewoye, R. A., & Mbah, G. C. E. (2019) Sensitivity Analysis of Multiple Control Intervention Measures of Lassa fever Disease Model. *International Journal of Mathematics Trends and Technology (IJMTT)*, 65(12)
- S. I. Onah, O. C. Collins, C. Okoye and G. C. E. Mbah (2019): Dynamics And Control Measures For Malaria Using A Mathematical Epidemiological Model. *Electronic Journal of Mathematical Analysis and Applications*, Vol. 7(1) No. 5, Pp. 65-73

### 63. Carbon and Advanced Porous Materials Research Group and Inorganic/Computational Chemistry Research Group

**Name of the Group:** Carbon and Advanced Porous Materials Research Group (CAMReG)

**Main Research Focus of the RG:** Synthesis, Characterization and Computational/Simulation Studies of Carbonaceous materials, Metal-Organic Frameworks (MOFs), Covalent Organic Frameworks (COFs), Hydrogen-bonded Organic Frameworks (HOFs) and other Advanced Porous Materials (APMs), and their applications in gas separation and storage by adsorption, with special focus in carbon dioxide (CO<sub>2</sub>) capture.

**Title of most recent research project:** Development of Advanced Adsorbents for CO<sub>2</sub> Capture Applications.

**Other current or completed research projects:**

- Synthesis, Characterization and *In Silico* Studies of Novel Schiff Bases Derived from Organosilanes
- Utilization of Biochar as organic fertilizer for Seedling growth of *Zea mays* (Maize)
- Synthesis, Spectroscopic, Biological and DFT Studies of 2,4,6-Tris(4-Carboxyphenylimino-4<sup>1</sup>-Formylphenoxy)-1,3,5-Triazine and its Trinuclear Dy(III) and Er(III) Salen Capped Complexes
- Crystal, Spectroscopic and Quantum mechanics studies of Schiff Bases Derived from 4-nitrocinnamaldehyde
- Structural, Antimicrobial and *in Silico* Studies of Some Schiff Bases of Trans-paramethoxycinnamaldehyde Derivatives
- Synthesis, Characterization and Biological Studies of Trinuclear Ce(IV) Salen Capped Complex with 5-amino-2,4,6-tris(4-carboxybenzimidino)-1,3-pyrimidine
- Evaluation of some amino benzoic acid and 4-aminoantipyrine derived Schiff bases as corrosion inhibitors for mild steel in acidic medium: Synthesis, experimental and computational studies.

**Name of the Coordinator:** Prof. Nnamdi L. Obasi

**UNN email address of the RG:** capm.researchgroup@unn.edu.ng

**UNN email address of the coordinator:** [nnamdi.obasi@unn.edu.ng](mailto:nnamdi.obasi@unn.edu.ng)

**Current UNN webpage of the RG:** <https://www.unn.edu.ng/carbon-and-advanced-porous-materials-research-group-and-inorganic-computational-chemistry-research-group/>

**Phone number of the RG:** 08037717717

**Phone number of the Coordinator:** 08037717717

**Base Faculty/Institute/Center of the RG:** Physical Sciences

**Department of the Coordinator:** Pure and Industrial Chemistry



### Headshot of the coordinator:



**Brief profiles of members:** <http://www.unn.edu.ng/internals/staff/viewProfile/MjY5Ng-->

- **Prof. Nnamdi L. Obasi:** He holds an MSc in Inorganic Chemistry (2004) and a PhD in Inorganic Chemistry (2011), all from the University of Nigeria, Nsukka. He graduated in 1999 winning an Award for his performance at the bachelor degree level, as the best graduating student in the Department of Pure & Industrial Chemistry. Prof. Obasi received the Elsevier Reviewer Recognition Award in 2013, 2018 and 2019. He has served as a Chairman and or Member, National Universities Commission (NUC) Accreditation Panel for Undergraduate Programmes at the several Federal, State and Private Universities, and Affiliate programmes since 2017 to date. He was a Panelist at NEST-FUNAI Pre-Conference Seminar, Federal University, Ndifu-Aleke, Ikwo (FUNAI), Ebonyi State (2016), and a guest speaker at the maiden Conference of the School of Basic and Applied Sciences, Taraba State Polytechnic, Suntai, Taraba State (2018). Prof. Obasi was a recipient of the UNN Vice Chancellor's financial award of academic excellence in 2018 for his publications in Thompson Reuters high impact factor Journals. He has also received two patents from the Federal Government of Nigeria for sets of novel compounds his team has synthesized. He has served as External Examiner at the University of Ilorin, Kwara State; Renaissance University, Enugu State; Vaal University of Technology, South Africa, and Moderator (M. Tech-Chemistry): Vaal University of Technology, South Africa. He has served as External Assessor for Professorial Cadres in several Federal, State and Private Universities in Nigeria. Prof. Obasi is a regular reviewer for high impact journals *in the field of chemistry*. He has served, and still serving the Department, Faculty of Physical Sciences, and the University of Nigeria in various Boards and committees either as a member or Chairman. He has published over 44 articles in both local and international peer-reviewed Journals with high impact factor. He has participated in some sponsored international and national conferences within and outside country where he presented over 32 research papers. Prof. Obasi is a member of the following professional bodies: Institute of Chartered Chemists of Nigeria (ICCON); Chemical Society of Nigeria (CSN) and New York Academy of Science (NYAS) and currently the Vice Chairman, Chemical Society of Nigeria (CSN), Enugu Chapter
- **Dr. Marta G. Plaza** (External collaborator from Instituto de Ciencia y Tecnología del Carbono (INCAR), CSIC, Oviedo, Spain)
- **Mr. E. N. Dim** (Department of Science Laboratory Technology, UNN): Dim, Ebubechukwu Nnamdi obtained a BSc (Hons) and MSc. (Inorganic Chemistry) from the department of Pure and Industrial Chemistry, University of Nigeria, Nsukka. He joined the services of the University in 2017 as an Assistant lecturer and currently a Lecturer 1 at the Department of Science Laboratory Technology, University of Nigeria
- **Mrs. Onyinye Ononuju** (Federal University Technology, Owerri )

## Members Google Scholar Citation links

Prof. Nnamdi L. Obasi:

<https://scholar.google.com/citations?user=LVQMv0UAAAAJ&hl=en>

Members Research gate links: <https://www.researchgate.net/profile/Obasi-Nnamdi>

### 10 key publications of the RG from 2019 till date:

- **L. N. Obasi et al** (2019): Structural, computational and *in silico* studies of Schiff bases derived from 2,3-dihydroxybenzaldehyde and molecular structure of their zwitterionic forms, *J. Mol. Struct.*, 1188, 69-75. DOI/[10.1016/j.molstruc.2019.03.081](https://doi.org/10.1016/j.molstruc.2019.03.081)
- C. G. Okenwa-Ani et al (2019): Heavy Metals Levels in Plastics Housing of Televisions: Is there a changing trend across three decades (1980-2000)?, *Iranian Journal of Toxicology*, 13(3), 27-32.
- Dege, N., Ersanli, C. C. and **Obasi. L. N.** (2019): Density Functional Theory Computations of (*E*)-4-((furan-2-ylmethylene)amino)-1,5-dimethyl-2-phenyl-1*H*-pyrazol-3(2*H*)-one. Proceedings of the 8th International Vocational Schools Symposium, UMYOS'19 SİNOP, Turkey, 11-13 June, 2019. Pp. 18-24.
- V. Ossai et al (2020): Crystal Structural and *In silico* Studies of Schiff bases derived from 4-aminoantipyrine, *Solid State Sciences*, 106, 106293, <https://doi.org/10.1016/j.solidstatesciences.2020.106293>
- Nnamdi C. Okey et al (2020): Evaluation of some amino benzoic acid and 4-aminoantipyrine derived Schiff bases as corrosion inhibitors for mild steel in acidic medium: Synthesis, experimental and computational studies, *J. Mol. Liquids*, 315, 113773, DOI:[10.1016/j.molliq.2020.113773](https://doi.org/10.1016/j.molliq.2020.113773)
- U. S. Oruma, P. O. Ukoha and **N. L. Obasi**; (2020): Synthesis, Characterization and Biological Studies of Trinuclear Ce(IV) Salen Capped Complex with 5-amino-2,4,6-tris(4-carboxybenzimidino)-1,3-pyrimidine, *Communications in Physical Sciences*, 5(3), 403-417.
- G. U. Kaior et al (2020): Structural, Antimicrobial and *in Silico* Studies of Some Schiff Bases of Trans-paramethoxycinnamaldehyde Derivatives, *Communications in Physical Sciences*, 5(4), 544-566.
- F. E. Ani et al (2021): Crystal, Spectroscopic and Quantum mechanics studies of Schiff Bases Derived from 4-nitrocinnamaldehyde, *Scientific Reports*, 11(1), 8151
- C. U. Ibeji et al (2022): *Synthesis, Crystal structure, Photoluminescence Properties and Quantum mechanics Studies of Two Schiff Bases of 2-amino-p-cresol*, *J. Mol. Struct.*, 1262, 133046, <https://doi.org/10.1016/j.molstruc.2022.133046>.
- I. J. Opara, P. O. Ukoha, **N. L. Obasi**, N. R. Ekere; (2022): Utilization of Biochar as organic fertilizer for Seedling growth of *Zea mays* (Maize), *International Journal of Environment, Agriculture and Biotechnology*, 7(4), 287-293.

### List of patents/exhibitions/shows/productions, etc from 2019 till date:

a. U. S. Oruma, P. O. Ukoha and **L. N. Obasi** (2018): Synthesis of a Tripodal Schiff Base containing Pyrimidine Unit and its Gd(III) Salen Capped Complex, *Nigerian Patent* No: NG/P/2018/134.

b. **L. N. Obasi**, U. S. Oruma, G. U. Kaior, and A. Ibezim (2018): Synthesis of Some Schiff Bases of Trans-para-methoxycinnamaldehyde Derivatives, *Nigerian Patent* No: NG/P/2018/269.

## 64. Computational and Methodological Statistics Research Group (CMSRG)

**Focus:** All aspects of statistics involving computation and methods as well as applications of the methods

**Other areas of research interest:** DOE-Design and Analysis of Experiments, HDS-High Dimensional Statistics (including every aspect of multivariate statistics), OR-Operations Research, LNM-Linear and Nonlinear Models, STS-Stochastic and Time Series, NS-Non-parametric Statistics, SL-Statistical Learning, SQC-Statistical Quality Control, and SS-Survey Sampling.

### Current research projects:

- On Shannon entropy estimators based on spacings.
- Application of phi-divergence measures in goodness-of-fit tests to multinormality.

**Name of the coordinator:** Dr. Mbanefo S. Madukaife

**Department:** Statistics

**UNN Email address of the coordinator:** [mbanefo.madukaife@unn.edu.ng](mailto:mbanefo.madukaife@unn.edu.ng)

**UNN email address of RG:** [cms.rg@unn.edu.ng](mailto:cms.rg@unn.edu.ng)

**UNN webpage of RG:** <https://www.unn.edu.ng/computational-and-methodological-statistics-research-group-cmsrg/>

**Phone Number of the coordinator:** +2348030967160

**Base Department Faculty of the RG:** Physical Sciences

**Department of the coordinator:** Statistics

### Profiles of members:

- **Dr. M. S. Madukaife:** Dr. Mbanefo S. Madukaife is a Senior Lecturer in the Department of Statistics, Faculty of Physical Sciences of the University of Nigeria, Nsukka. His main research interests include goodness-of-fit techniques of statistical distributions, characterizations of multivariate statistical distributions, multivariate statistical inference, multivariate computational statistics, classification and clustering techniques, high dimensional statistics, as well as sample survey methodology and statistical learning. Dr. Madukaife is an active member of many scientific professional bodies such as Institute of Mathematical Statistics, Nigerian Statistical Association, International Statistical Institute, and Computational and Methodological Statistics Working Group of the European Research Consortium for Informatics and Mathematics. Google Scholar Citation link: <https://scholar.google.com/citations?user=SmXMF9wAAAAJ&hl=en>. Researchgate link: <https://www.researchgate.net/profile/Mbanefo-Madukaife>.
- **Dr. A. V. Oladugba:** Abimibola Victoria is a Lecturer/Researcher at the Department of Statistics, Faculty of Physical Sciences, University of Nigeria, Nsukka. Her areas of research interest include: Response Surface Methodology, Design and Analysis of Experiments, Categorical Data Analysis, and Missing and

Outlier Data Analysis. Abimibola has published in both national and international journals and conferences. She is a Fellow, Royal Statistical Society (*FRSS*), and member, Nigerian Statistical Association, International Statistical Institute, and Caucus of Women in Statistics. ORCID number Abimibola Victoria Oladugba - 0000-0002-6402-8833.

- **E. I. Mba:** Emmanuel Ikechukwu Mba is a lecturer I in the Department of Statistics, Faculty of Physical Sciences, University of Nigeria, Nsukka. His main research interest includes: Optimal Design of Experiments and General Incomplete Block Designs, Statistical Computing Techniques, Time Series Analysis, Econometric Methods and Statistical Computational Techniques. Google Scholar Citation Link: <https://scholar.google.com/citations?hl=en&user=CUWJNT0AAAAJ>. Researchgate Link: <https://www.researchgate.net/profile/Emmanuel-Mba>.
- **K. C. Arum:** Arum, Kingsley Chinedu is a Nigerian academic and a Lecturer I in the Department of Statistics, University of Nigeria, Nsukka (UNN). Arum K.C. had his secondary school education at Odofoin Secondary School, Mile II, Lagos State between 1996 and 2002. He proceeded to the University of Nigeria, Nsukka where he obtained a B.Sc. certificate in Statistics in 2011 as the best graduating student (BGS) of the Department of Statistics in 2011 session, M.Sc. certificate in 2016 and currently a PhD student in the Department of Statistics, UNN. His research interests include generalized linear models, stochastic processes, time series modeling, and data science. Scopus ID: <https://www.scopus.com/authid/detail.uri?authorId=57289497700>. Researchgate: <https://www.researchgate.net/profile/Kingsley-Arum-2>. Google Scholar: <https://scholar.google.com/citations?user=mO0OZ1oAAAAJ&hl=en&oi=ao>. ORCID: <https://orcid.org/0000-0001-5754-5536>. Publon ID: <https://publons.com/researcher/4860761/kingsley-arum/>. Web of Science ID: [ABG-3535-2021](https://publons.com/researcher/4860761/kingsley-arum/). The link below leads to the curriculum vitae (CV) of Arum Kingsley C. [https://docs.google.com/document/d/1x5MQjwmTV7BiKOhwN0APuKVuF8ejW4a\\_sZ1WRyTCIgeA/edit](https://docs.google.com/document/d/1x5MQjwmTV7BiKOhwN0APuKVuF8ejW4a_sZ1WRyTCIgeA/edit).
- **H. E. Oranye:** Oranye, Henrietta Ebele is a lecturer in the Department of Statistics, University of Nigeria Nsukka with over 8 years' experience in lecturing. Strong in statistical computing, evaluation of data and highly skilled in statistical modeling. Areas of specialization include: Generalized linear models, Hybrid modeling, estimation and Data mining. Researchgate ID: <https://www.researchgate.net/profile/Ebele-Oranye>. Google scholar link: [https://scholar.google.com/citations?view\\_op=list\\_works&hl=id&user=QXTkS60AAAAJ](https://scholar.google.com/citations?view_op=list_works&hl=id&user=QXTkS60AAAAJ). Web of Science ResearcherID: AFV-5216-2022.
- **O. T. Babatunde:** Mr. Oluwagbenga T. Babatunde is a Lecturer I in the Department of Statistics, Faculty of Physical Sciences, University of Nigeria, Nsukka. His research interest includes time series and econometric modelling, calibration estimation, sample survey methodology, control charts development and computational statistics. He is a member of Professional Statisticians Society of Nigeria (PSSN). Google Scholar Citation link: <https://scholar.google.com/citations?hl=en&user=JeKAR8QAAAAJ>.

Researchgate link: <https://www.researchgate.net/profile/Oluwagbenga-Babatunde>.

- **N. M. Eze:** Nnaemeka Martin Eze is currently a lecturer with the University of Nigeria, Nsukka. He has a MSc in Statistics from University of Ibadan, Ibadan, Nigeria. His research focuses on the use of mathematical and statistical methods to develop statistical models. He has the skill of using computer applications and programming languages such as R programming language, Python programming language, Statistical Package for Social Sciences (SPSS) and Minitab to handle any data analysis. CV Link: <https://docs.google.com/document/d/1ixZNTth-I0D3tWLMJfWEDDpF3r6DQdGEqudyabOESDM/edit>. Researchgate Link: <https://www.researchgate.net/profile/Nnaemeka-Eze>. Google Scholar Citation Link: <https://scholar.google.com/citations?user=-uF8h6QAAAAJ&hl=en&authuser=1>.
- **Dr. F. O. Ohanuba:** Dr Felix O. Ohanuba is as lecturer in the Department of Statistics, Faculty of Physical Sciences of the University of Nigeria, Nsukka. His main research interests include Time-Series, Topological Data Analysis, Machine learning, Statistical modeling, Clustering techniques, Big Data Analysis, and Operations research. Dr. Felix is a member of some scientific professional bodies (NSA and IMS). Researchgate link: <https://www.researchgate.net/profile/Felix-Ohanuba-2>.
- **N. M. Nwakobi:** Nnamdi Micheal Nwakobi is a Lecturer II in the Department of Statistics, Faculty of Physical science, University of Nigeria, Nsukka. His main research interests are statistical modelling, computational statistics, reliability analysis, inventory management, data envelopment analysis and optimization. He is also an active member of relevant professional bodies. Google Scholar link: <https://scholar.google.com/citations?user=uBoO2N4AAAAJ&hl=en>. Researchgate link: [https://www.researchgate.net/profile/Nnamdi-Nwakobi-2?ev=hdr\\_xprf](https://www.researchgate.net/profile/Nnamdi-Nwakobi-2?ev=hdr_xprf).
- **S. O. Ugwu:** Mr. Ugwu Samson Offorma is an academic staff of the Department of Statistics, University of Nigeria, Nsukka (UNN) with over seven years of lecturing experience in the above named University. He is currently a lecturer II with the Department of statistics. He has seven international publications. His research interest is on quality/process control. <https://docs.google.com/document/d/1-Zw-dnH0xKXFQG0xafRqh4Ad5QVbrH46dIpBqui0vh8/edit?usp=sharing>.
- **I. O. Ude:** Ude, lfeoma O. is an Assistant Lecturer in the Department of Statistics, Faculty of Physical Sciences of the University of Nigeria, Nsukka. Her research interests are design and analysis of experiments and regression. Researchgate link: <https://www.researchgate.net/lfeoma-Ude>.

### Key publications:

- Ossai, E. O et al (2022). A review of tests for exponentiality with Monte Carlo comparisons, *Journal of Applied Statistics*, 49(5), 1277-1304.
- Ugwu, M. C., & Madukaife, M. S. (2022). Two-stage cluster sampling with unequal probability sampling in the first stage and ranked set sampling in the second stage. *STATISTICS IN TRANSITION new series*, 23(3), 199–214.

## 65. Coordination Chemistry and Inorganic Pharmaceuticals Research Group

**Main Research Focus:** Synthesis, characterization and biological studies of new inorganic pharmaceuticals.

**Recent Research Project:** Synthesis, Characterization, Antimicrobial Screening, and Computational Studies of a Tripodal Schiff Base Containing Pyrimidine Unit.

**Other current or completed projects:** Crystal structure, in silico studies and anti-diabetic potentials of 3-e-(1,5-dimethyl-3-oxo-2-phenyl-2,3-dihydro-1*h*-pyrazol-4-yl)hydrazinylidene]pentane-2,4-dione(HDPP) and its Co(II), Ni(II), Cu(II) and Fe(III) complexes; Synthesis, spectroscopic characterization and antibacterial studies of lanthanide (III) Schiff base complexes containing N, O donor atoms; Lanthanide (III) Complexes with the salen type N<sub>2</sub>O<sub>2</sub> Schiff base ligand: Synthesis, Spectral and biological properties; Gadolinium (III) trinuclear salen capped complexes of a series of N<sub>2</sub>O<sub>2</sub> donor ligands: Synthesis, Characterization and antimicrobial studies

**Name of the Coordinator:** Professor Pius Oziri Ukoha

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**Phone Number of the Coordinator:** 08037171322

**Base Faculty/Institute/Center:** Faculty of Physical Sciences

**Department of the Coordinator:** Pure and Industrial Chemistry

### Headshot of coordinator



### List and brief profiles of members

**Prof. P. O. Ukoha.** Qualifications: BSc (1985), MSc (1988), PhD (1999). Specialization: Inorganic/ Analytical Chemistry. Affiliation: Department of Pure and Industrial Chemistry.

**Dr. (Mrs.) U. S. Oruma** obtained her PhD in Inorganic Chemistry of the University of Nigeria Nsukka in October, 2017. She is an Associate Professor. Her research interest is synthesis, characterization and biological studies of new Inorganic Pharmaceuticals. This is geared towards synthesis and characterization of organic ligands and their corresponding complexes. The synthesized compounds are tested for their antimicrobial and antimalarial activities. **Research gate link:** <https://www.researchgate.net/profile/Uchechukwu-Oruma-2/stats/report/weekly/2023-02-05>

Google Scholar link: <https://scholar.google.com/citations?user=ZFJuJPAAAAJ>

**Prof. O. T. Ujam** obtained his Ph.D in Chemistry from the School of Science and Engineering, University of Waikato, Hamilton, New Zealand in November 2011. He was promoted to the rank of **Senior Lecturer** in 2013 and **Professor** in, 2018. He has published over 60 articles in international peer reviewed journals. Google Scholar link: <https://scholar.google.com/citations?user=7NzHBaQAAAAJ&hl=en>

**Research gate link:** <https://www.researchgate.net/profile/Oquejiofo-Ujam>

### 10 key publications of the RG from 2019 till date:

- Solomon E. Okereke et al. An Investigation Of The Activity Of Some Acylpyrazolone Derivatives And Their Metal Complexes Against Protozoans (Plasmodium berghei berghei and Trypanosoma brucei brucei) Causing Tropical Diseases. Egyptian Journal of Chemistry, accepted manuscript, 2022.
- Bulus Habila et al. S6Synthesis and Characterization of Immobilized Thiolactic Ligand System for the Detoxification of Tannery Wastewater, European Journal of Applied Sciences, 8,1-26, 2020
- Helen O. Echekwube et al. Synthesis and *in silico* investigation of Schiff base derivatives of 1*H*-indole-2,3-diones and their Co(II) and Ni(II) complexes as antimicrobial agents, Brazilian Journal of Biological Sciences, 2019, 6, 63-85.
- Uchechukwu Susan Oruma et al (2021). Synthesis, Biological and In Silico Studies of a Tripodal Schiff Base Derived from 2,4,6-Triamino-1,3,5-triazine and Its Trinuclear Dy(III), Er(III), and Gd(III) Salen Capped Complexes. Molecules 2021, 26, 4379. <https://doi.org/10.3390/molecules26144379>.
- Uchechukwu S. Oruma et al (2021) Synthesis, Spectroscopic, Biological and DFT Studies of 2,4,6-Tris(4-Carboxyphenylimino-4<sup>1</sup>-Formylphenoxy)-1,3,5-Triazine and its Trinuclear Dy(III) and Er(III) Salen Capped Complexes. Communication in Physical Sciences 7(3), 182-203.
- U. S. Oruma et al (2021) Synthesis and Biological Studies of a Tripodal Schiff Base Derived From 1,3,5-Tribromomethylbenzene And Its Trinuclear Ce(IV) And Nd(III) Salen Capped Complexes. Nigerian Journal of Chemical Research, 26(1), 33-55.
- U.S, Oruma et al (2021). Synthesis, Characterization and Biological Studies of Trinuclear Nd(III) Salen Capped Complex with 2,4,6-tris(4-carboxybenzimidino)-1,3,5-triazine. The Pacific Journal of Science and Technology (USA,) 22(1), 136 – 153.
- Oruma, U. S., **Ukoha, P. O.**, and Ezeorah, C. J. (2020). Trinuclear Ce(IV) Salen Capped Complexes with Bridging 2, 4, 6-Tris (4-Carboxyphenylimino-4<sup>1</sup>-formylphenoxy)-1, 3, 5- Triazine And 2,4,6-Tris(4-Carboxybenzimidino)-1,3,5-Triazine: Synthesis, Characterization and Biological Studies. Nigerian Journal of Chemical Research, 25(2), 9-31.
- AN Nkwor, **PO Ukoha**, (2020) [Evaluation of the leather fatliquoring potential of sulphonated Afzelia africana aril cap oil](#), Heliyon 6 (1), e03009
- AN Nkwor, **PO Ukoha**, IH Ifijen (2021) [Synthesis of sulfonated Sesamum indicum L. seed oil and its application as a fatliquor in leather processing](#), Journal of Leather Science and Engineering 3, 1-13

**Patent:** The synthesis of a Tripodal Schiff base containing Pyrimidine Unit and Its Gd(III) Salen Capped Complex, which has been awarded patent (RP: NG/P/2018/134) in 2018.

## 66. Fixed Point Theory and Applications

**Main research focus and other areas of research interest of the RG:** Fixed Point Theory and Applications, Optimization, Equations, Numerical Analysis

**Title of most recent research project:** Inertial Generalized Picard-Mann Iteration Scheme for Certain Classes of Operators Equations

**Other current or completed research projects:**

- Inertial Iteration Scheme for Approximating Fixed Points of Lipschitz Pseudocontractive Maps in Arbitrary Real Banach Spaces
- Inertial Krasnoselskii-Mann-type Algorithms for Nonexpansive Maps and Accretive-type Operator Inclusion Problems in Real Banach Spaces
- Iterative Algorithm with Inertial and Error Terms for Fixed Points of Strictly Pseudocontractive Maps and Zeros of Inverse Strongly Monotone Operators
- Mixed equilibrium and multiple-set split feasibility problems for asymptotically  $k$ -strictly pseudononspreading mappings
- Asymptotically Hemicontractive Mappings in Hilbert Spaces and a New Algorithm for Solving Split Common Fixed-Point Problem for the Mappings
- Attractive Point and Ergodic Theorems for Generic  $n$ -Generalized Bregman Nonspreading Mappings in Banach Spaces
- Iterative solution of split fixed point and monotone inclusion problems in Hilbert spaces

**Name of the Coordinator:** Osilike, Micah Okwuchukwu. FNMS, FAS

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**Base Faculty/Institute/Center of the RG:** Physical Sciences

**Department of the Coordinator:** Mathematics

**Headshot of the coordinator (not mandatory):**

**List and brief profiles of members:**

- Professor M.O. Osilike, FNMS, FAS: Micah Okwuchukwu Osilike is a Professor of Mathematics at the University of Nigeria, Nsukka (UNN). A pioneer occupant of the Pastor E.A. Adeboye Professorial Chair at UNN, his main research interest is in Fixed Point Theory and Applications (FPTA) and he coordinates a formidable research group in FPTA at UNN. He is a member of the Editorial Board of Abstract and Applied Analysis, HINDAWI Publications; and Journal of the Nigerian Mathematical Society (JNMS). He served the Nigerian Mathematical Society as Assistant Secretary (2000—2006), Vice-President (2006—2009), Acting Editor-in-Chief (2008), Editor-in-Chief (2009—2011) and President (2011—2015); a



Regular Associate of the AS-ICTP, Trieste, Italy for two terms; a member of the University of Nigeria Governing Council (2009—2013); and the Director, Academic Planning Unit, UNN (2014—2018). He is a Fellow of the Nigerian Mathematical Society (FNMS), and a Fellow of the Nigerian Academy of Science (FAS). He represented the Nigerian Academy of Science (NAS) in the Governing Council of the National Mathematical Centre (NMC), Abuja from 2018—2021. He is currently representing NAS in the National Universities Commission (NUC) Comprehensive Curriculum Review and he reviews for AMS Mathematical Reviews.

- Professor Felicia O. Isiogugu: <https://staffprofile.unn.edu.ng/profile/2670> Felicia Obiageli Isiogugu attended ST. Cyprian Special Science School, Nsukka. She obtained a Bsc (Hons) in mathematics, an M.sc in Mathematics(Functional Analysis) and Ph.D in mathematics(Functional Analysis; Nonlinear operator theory) from the University of Nigeria, Nsukka (UNN). She joined the services of UNN in 2006 and is currently a Full Professor in Functional Analysis at the Department of Mathematics, University of Nigeria Nsukka. Her research is in the area of Fixed Point Theory and Applications.
- Dr Besheng George Akuchu: Dr. B. G. Akuchu attended the Cameroon Protestant College (CPC) Bali, in the Republic of Cameroon. He obtained a BSc (Hons) in Mathematics from the Nnamdi Azikiwe University, Awka and subsequently an M.Sc. and Ph.D in Mathematics from the University of Nigeria, Nsukka (UNN). He was the best Ph.D graduand from UNN in the 2005/2006 academic session. He joined the services of UNN in 1999 and is currently an Associate Professor (Reader) in the Department of Mathematics, University of Nigeria, Nsukka. His area of Specialization is Nonlinear Functional Analysis and Operator Theory. More precisely he works in fixed points theory and its applications.
- Dr. Shehu Yekini: <http://staffprofile.unn.edu.ng/profile/891> Dr. Yekini Shehu obtained his PhD in the Department of Pure and Applied Mathematics, African University of Science and Technology, Abuja on 3rd May, 2013 under the supervision and guidance of Professor C. E. Chidume. He was the first PhD graduate of the department and the university. His PhD thesis was titled “Contributions to Iterative Algorithms for Nonlinear Equations in Banach spaces” from which he published eleven (11) papers (nine papers published in elsevier journals and two published in Springer-Verlag journals). Furthermore, his PhD thesis was awarded the Best PhD Thesis in Pure Mathematics by the Nigerian Mathematical Society for the year 2013. He joined the services of UNN in 2010 and is currently a Professor at the Department of Mathematics, Zhejiang Normal University: Jinhua, Zhejiang Province, CN. He is a researcher in Nonlinear Operator Theory where he construct fixed point iterative algorithms and prove convergence results for approximation of solutions for nonlinear operator equations, convex and non-convex optimization problems, variational inequalities, quasi-variational inequalities, and equilibrium problems in Hilbert spaces and Banach spaces.
- Dr. Ferdinard U. Ogbuisi: <https://staffprofile.unn.edu.ng/profile/899> Dr. Ferdinard U. Ogbuisi is currently a Senior Lecturer in the Department of Mathematics, UNN. He joined the services of UNN in December 2010 as a Graduate Assistant. He obtained his Ph.D in Fixed Point Theory and Applications from South Africa.

- Dr. Denis F. Agbebaku: <https://staffprofile.unn.edu.ng/profile/898>
- Dr. Peter Uche Nwokoro: <https://staffprofile.unn.edu.ng/profile/2671>
- Dr. Eucharia E. Chima: She obtained B.Sc., M.Sc. and Ph.D. in Mathematics from UNN. She is currently at Department of Mathematics, Bingham University, Karu, Nigeria. She is working in the area of Fixed Point Theory and Applications.
- Mr. Anthony Chibuike Onah: Anthony Chibuike Onah obtained Second Class Honours, Upper Division in Mathematics from University of Nigeria, Nsukka in 2007. He obtained his M.Sc. degree in Mathematics from UNN in 2014 and is currently on his Ph.D. programme at UNN in the area of Fixed Point Theory and Applications. He is an Academic Staff of Evangel University Akaeze, Ebonyi State, Nigeria.
- Mrs. O.U. Oguguo: She obtained B.Sc. (Ed. Mathematics), M.Sc. (Mathematics) from University of Nigeria, Nsukka. She is currently completing her Ph.D. programme at UNN in the area of Fixed Point Theory and Applications. She is a lecturer at the Federal College of Education, Omoku, an affiliate of UNN.
- Mr. Emmanuel Akaligwo: He obtained B.Sc. and M.Sc. in Mathematics from UNN and is currently on his Ph.D. programme in the area of Fixed Point Theory and Applications at UNN. He is a Lecturer at Federal University, Lokoja.

#### **Members Google Scholar Citation links:**

- Osilike: <https://scholar.google.com/citations?hl=en&user=MoPiOSUAAAAJ>
- Isiogugu: <https://scholar.google.com/citations?hl=en&user=5Mi31xgAAAAJ>
- Akuchu: <https://scholar.google.com/citations?hl=en&user=Yiyla5AAAAAJ>
- Shehu: <https://scholar.google.com/citations?hl=en&user=763k4SIAAAAJ>
- Ogbuisi: <https://scholar.google.com/citations?hl=en&user=IU6Sve8AAAAJ>
- Agbebaku: <https://scholar.google.com/citations?hl=en&user=ZTJIFqsAAAAJ>
- Nwokoro: <https://scholar.google.com/citations?hl=en&user=3IviWEwAAAAJ>
- Chima: <https://scholar.google.com/citations?hl=en&user=uEZTfJAAAAAJ>
- Akaligwo:  
<https://scholar.google.com/citations?hl=en&user=Qne4hKYAAAAJ>

#### **Members ResearchGate links:**

- Osilike: <https://www.researchgate.net/profile/Micah-Osilike>
- Isiogugu: <https://www.researchgate.net/profile/Felicia-Isiogugu>
- Akuchu: <https://www.researchgate.net/profile/George-Besheng-Akuchu>
- Shehu: <https://www.researchgate.net/profile/Yekini-Shehu>
- Ogbuisi: <https://www.researchgate.net/profile/Ferdinand-Ogbuisi>
- Agbebaku: <https://www.researchgate.net/profile/Dennis-Agbebaku>
- Nwokoro: <https://www.researchgate.net/profile/Dennis-Agbebaku>
- Chima: <https://www.researchgate.net/profile/Eucharia-Chima>
- Akaligwo: <https://www.researchgate.net/profile/Emmanuel-Akaligwo>
- Oguguo: <https://www.researchgate.net/profile/O-Oguguo>
- Onah: <https://www.researchgate.net/profile/Anthony-Onah>

### 10 key publications of the RG from 2019 till date:

- P.U. Nwokoro, D. F. Agbebaku, E.E. Chima, A.C. Onah, O.U. Oguguo, and M.O. Osilike, Inertial Iteration Scheme for Approximating Fixed Points of Lipschitz Pseudocontractive Maps in Arbitrary Real Banach Spaces, *Carpathian J. Math.* 39 (1), (2023) 201-212.
- D.F. Agbebaku, P.U. Nwokoro, M.O. Osilike, E.E. Chima and A.C. Onah, Iterative Algorithm with Inertial and Error Terms for Fixed Points of Strictly Pseudocontractive Maps and Zeros of Inverse Strongly Monotone Operators, Accepted to appear in *Applied Set-Valued Analysis and Optimization*, Volume 3 (1); (2021) 95-107, doi:10.23952/asvao.3.2021.1.08.
- Y Shehu, OS Iyiola, FU Ogbuisi, Iterative method with inertial terms for nonexpansive mappings: applications to compressed sensing, *Numerical Algorithms* 83, (2020) 1321-1347.
- FU Ogbuisi, FO Isiogugu, JM Ngnotchouye, Approximating a common solution of extended split equality equilibrium and fixed-point problems *Indian Journal of Pure and Applied Mathematics* 52 (1), (2021), 46-61,
- FU Ogbuisi, Y Shehu, JC Yao, Convergence analysis of new inertial method for the split common null point problem *Optimization* 71 (13), (2022), 3767-3795
- FU Ogbuisi, FO Isiogugu, A New Iterative Algorithm for Pseudomonotone Equilibrium Problem and a Finite Family of Demicontractive Mappings, *Abstract and Applied Analysis* 2020, 1-11
- Y Shehu, A Gibali, New inertial relaxed method for solving split feasibilities *Optimization Letters* 15 (6), (2021), 2109-2126
- Y Shehu, OS Iyiola, E Akaligwo, Modified inertial methods for finding common solutions to variational inequality problems, *Fixed Point Theory* 20 (2), (2019) 683-702
- MO Uba, MA Onyido, CI Udeani, PU Nwokoro, A hybrid scheme for fixed points of a countable family of generalized nonexpansive-type maps and finite families of variational inequality and equilibrium problems, with applications, *Carpathian Journal of Mathematics* 39 (1), (2023), 281-292.
- PU Nwokoro, MO Osilike, DF Agbebaku, EE Chima, AC Onah, A new Halpern-type averaging algorithm with inertial and error terms for fixed points of asymptotically nonexpansive maps, *J. Math. Comput. Sci.* 10 (5), 1538-1558

## 67. High Performance & Intelligent Computing Group (HiPIC)

**Main Focus:** This research group aims at developing new methods and technologies in Computer Science that use the under-utilized resources and Datasets from computing systems and devices distributed heterogeneously across several data centres, research institutions and the likes, like virtual resources (VRs) for the purposes of research across multi-disciplinary virtual organizations (VOs). These e-infrastructures include; high-performance servers, virtual machines, cloud services, Internet of Things (IoT) and Internet of Medical Things (IoMT) gateways, grid computing infrastructures, as well as repositories of simulation and modelling applications in science gateways and computing clusters. This research group focuses on three key areas:

- Distributed Computing Infrastructures (DCI)

- Computing Intelligence
- Wireless Mobile Devices and Sensor Networks

### Computing Intelligence Sub-group

This sub-group focuses on the research and development of Artificial Intelligence-based products using techniques like machine learning, neural networks, natural language processing, multi-agent systems, and so on.

### Wireless Mobile Devices and Sensor Networks Sub-group

This subgroup's interest is in the study on network systems and security, with a special focus on how to improve network efficiency and integrity by using network optimization and improving encryption techniques. The use of wireless sensors for monitoring of oil spillages, implementation of smart homes, etc, are also explored. This sub-group also looks at the prospects and methods of utilizing mobile devices for learning and location-aware services.

**Most Recent Project:** A Smart IoT Fresh Water Fish Pond Water Quality Monitoring and Control System for Yield Prediction. Research funded by the Tertiary Fund National Research Fund to generate water chemistry parameters using IoT sensors and build machine learning models. Tertiary Fund National Research Fund (TETFund – 2020-Date). Worth: N36,000,000/(USD 86,000.00)

**HiPIC Research Group Previous Projects**

### Grants and Awards:

- Nvidia Applied Research Accelerator Program (2022). Worth: 12 - Jetson Nano 2GB Developer Kits, 8 - Deep Learning Institute Course Credits.
- Sensor Based Aquaponics Fish Pond Datasets: IoT Fish Pond Monitoring Datasets. A research funded by the Lacuna Fund Agriculture Award 2020 to generate realtime dataset for machine learning from fish pond water using Internet of Things (IoT) sensors: Lacuna Fund Agriculture Award 2020 (2020-2021). Worth: USD 110,000.00  
<https://aquaponics.hipiclab.org/>  
[https://www.youtube.com/channel/UCaFmcLzen\\_aPhbyTpuEYh3A](https://www.youtube.com/channel/UCaFmcLzen_aPhbyTpuEYh3A)
- Deployment of Cloud Computing Infrastructure for Academic Research. A research funded by the Tertiary Institution Fund (TETFund – 2015/2016). Worth: USD 12,500.00
- UNN-UNESCO-HP Brain Gain Initiative Grant for Sustainability of Grid Computing for Plant Tissue Culture Research (2012-2013). Worth: USD 12,000.00.
- UNN-UNESCO-HP Brain Gain Initiative Grant for implementing Grid Computing for Plant Tissue Culture Research (2010-2012). Worth: USD 10,000.00.
- UNN-UNESCO-HP Brain Gain Initiative Equipment Grant for implementing Grid Computing for Plant Tissue Culture Research (2007-2009).

- Google Android Program for EMEA 2011 Award winner (equipment grant for the development of Android applications for mobile devices)

**Name of the Coordinator:** Dr. Collins N. Udanor (Asso. Prof)

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**Department of the Coordinator:** Department of Computer Science

#### Headshot of the coordinator



#### List and brief profiles of members:

- **Dr. Collins N. Udanor** is an Associate Professor of Computer Science (Artificial Intelligence). He teaches in the Department of Computer Science, University of Nigeria Nsukka. He holds a Bachelor's Degree in Computer Science & Engineering, a Masters Degree in Computer Science (Data Communications Specialist), and a Ph.D. in Electronic Engineering (Intelligent Agent Systems Specialist). He has advanced trainings and certifications in Cloud Computing & Network Virtualization, Internet of Things (IoT), Data Science, Grant Writing and Online Lecture Delivery, etc. He has skills in Data analytics, and multi-agent learning systems pedagogy. Collins Udanor leads a University research group, the High Performance and Intelligent Computing group (HiPIC, [hipiclab.org](http://hipiclab.org)), a cross-disciplinary research group based in the Department of Computer Science. He has won several project grants funded by the Lacuna Fund (2020), Nvidia Developer Program 2022, UNESCO-HP (2009-2013), Google (2011), Nigeria's Tertiary Education Trust Fund (TETFund, 2016, 2020, 2021), etc. He is also an Oracle Academy Faculty Prize winner in Artificial Intelligence, 2019. His project experiences include Network Virtualization, Cloud, Grid, and Edge Computing, etc. Prof. Collins Udanor leads the Labour and Productivity cluster of the Volunteer Expert Group (VEG) on the formulation of Artificial Intelligence Policy for Nigeria. He has also been involved in several international project collaborations across Europe and Africa, some of which include; the HP-UNESCO Brain Gain Initiative (BGI), the eI4Africa project, EU Horizon 2020 projects, WACREN, Sci-GaAI, EU Grid Forum, ITU Study Group 13, etc. In 2011 he led the team that developed the Pidgin Search Engine for Google. Dr. Collins Udanor has more than 30 peer-reviewed publications in international journals and conference proceedings indexed and ranked by Clarivate Analytics, Springer, Scopus, etc.

UNN Website link: <http://www.unn.edu.ng/internals/staff/viewProfile/ODU3>

- **Akaneme Ifeoma Florence (PhD)** is a professor of Plant genetics in the Department of Plant Science and Biotechnology, University of Nigeria Nsukka. She has had project experiences in UNESCO-HP Brain Gain Project, Contract No. 3250042751 of 14th May 2012 on 'Sustaining the Research and Grid Computing Components of the University of Nigeria's UNESCO-HP Brain Gain Project. TETFund Institutional Based Research (IBR) intervention grant with reference number: TETFUND/DESS/UNN/NSUKKA/RP/VOL.VIII of 2016 on 'Deployment of an e Infrastructure for Academic Research'.
- **Nweke Onyinye Edith (IoT Specialist):** is a Lecturer with the Department of Computer Science University of Nigeria, Nsukka. She obtained her Bachelor of Engineering (B.Eng.) in Computer Engineering from Igbinedion University Okada in 2011, a master of Science (M.Sc.) in Computer Science from the University of Port Harcourt in 2016, where she is currently studying for her Ph.D. in Computer Science. Her research interest is in the field of IoT, Machine Learning, and Cybersecurity. She is an active member of the High Intelligent Performance Research Group (HiPIC) UNN.
- **Dr. Blessing Ogbuokiri** is a postdoctoral fellow and instructor at the Department of Mathematics and Statistics, York University, Toronto, Canada. He has over fifteen (15) years of combined professional experience across a broad range of fields in academia, industry, and community-based organizations. Dr. Ogbuokiri is interested in machine learning for health, data science for social good, social media computing, Natural Language Processing, and Theoretical Computing. His goal is to actively collaborate with researchers in several interdisciplinary groups in using AI to help government and local communities to contain and manage the spread of community-based infectious diseases outbreaks, such as COVID-19, Malaria, and Mpox. Dr. Ogbuokiri is an organiser of the Black in AI workshop at NeurIPS, the NeurIPS conference, and the AI4PEP lecture series.  
UNN Website link: <http://www.unn.edu.ng/internals/staff/viewProfile/ODQz>
- **Dr. Nelson Ike Osai** has a Ph.D. in Fisheries Biology from the Department of Zoology and Environmental Biology, University of Nigeria Nsukka, where he currently lectures. For the past ten years he has been involved in many Fishery projects, such as breeding, and field officer, including the UNN-WAAPP Fish seed centre project, served as Farm Manager for Freedom Fishes, etc. Dr. Ossai has over a dozen peer-reviewed journal publications. He was won some grants including the International Breweries Entrepreneurial Grant, 2016.
- **Nwoye Chinedu Innocent**, obtained his Ph.D. in Image and Computer Vision at the University of Strasbourg, France, with specialization in Deep Learning, Surgical Data Science, Medical Image Analysis, and Computer Assisted Medical Intervention. He is currently undergoing his Post-Doctoral Research Fellowship in ICube Laboratory & IHU Strasbourg, France. His research experiences include: Developing research methods and tools to perceive and model clinicians and clinical activities in the operating room using digital data acquired from endoscopic cameras. Teaching, workshops, conferences, and publications on research methods based on computer vision, medical image analysis, and machine learning. Nwoye and the Principal Investigator have

been collaborating since 2015 and have joint publications. UNN Website link: <http://www.unn.edu.ng/internals/staff/viewProfile/ODQ5>

- **Dr. Eneh Agozie H.** has research interests that include but not limited to the following; Operations Research, Optimization, telecommunications and networks, network and Internet security, ethical hacking, digital forensics, network risk assessment. He is a member of the HiPIC lab and was a part of the Lacuna Project for Agricultural. He has collaborated with the PI in joint textbook, journal and conference publications.

UNN Website link: <http://www.unn.edu.ng/internals/staff/viewProfile/Nzc4>

#### **Members Google Scholar Citation links**

- Dr. Collins N. Udanor : <https://scholar.google.com/citations?hl=en&user=c3C4jZMAAAAJ>
- Prof. Florence I. Akaneme: <https://scholar.google.com/citations?user=5ger8dEAAAAJ&hl=en&oi=sra>
- Dr. Blessing Ogbuokiri: [https://scholar.google.com/citations?hl=en&user=JZ\\_wxE4AAAAJ](https://scholar.google.com/citations?hl=en&user=JZ_wxE4AAAAJ)
- Dr. Nelson Ike Ossai: <https://scholar.google.com/citations?hl=en&user=h0xPs7IAAAAJ>
- Dr. Chinedu Nwoye: <https://scholar.google.com/citations?hl=en&user=9IKxBUoAAAAJ>
- Dr. Agozie Eneh: <https://scholar.google.com/citations?hl=en&user=6AD8f34AAAAJ>
- Nweke Onyinye: [https://scholar.google.com/citations?hl=en&user=Vg\\_07EIAAAAJ](https://scholar.google.com/citations?hl=en&user=Vg_07EIAAAAJ)

#### **Members Researchgate links**

- Dr. Collins N. Udanor: <https://www.researchgate.net/profile/Collins-Udanor>
- Prof. Florence Akaneme: <https://www.researchgate.net/profile/Florence-Akaneme-Nee-Okoye>
- Dr. Blessing Ogbuokiri: <https://www.researchgate.net/profile/Blessing-Ogbuokiri>
- Dr. Nelson Ike Ossai: <https://www.researchgate.net/profile/Nelson-Ossai>
- Dr. Chinedu Nwoye: <https://www.researchgate.net/profile/Chinedu-Nwoye-3>
- . Agozie Eneh: <https://www.researchgate.net/scientific-contributions/Eneh-Agozie-Hyacinth-2198377490>
- Nweke Onyinye: <https://www.researchgate.net/profile/Onyinye-Nweke>

#### **10 key publications of the RG from 2019 till date**

- **C.N. Udanor et al** (2022). An internet of things labelled dataset for aquaponics fish pond water quality monitoring system, *Data in Brief*, Volume 43, 108400, ISSN 2352-3409, <https://doi.org/10.1016/j.dib.2022.108400>. (<https://www.sciencedirect.com/science/article/pii/S2352340922005972>)
- **C.N. Udanor et al** (2021). A Pilot Implementation of a Remote IoT Sensors for Aquaponics System Datasets Acquisition, *The Journal of Computer Science and its Applications (JCSA)*, Vol. 28, Iss. 2. <https://dx.doi.org/10.4314/jcsia.v28i2.1>
- S.O Aneke et al (2020), Towards Determining Cybercrime Technology Evolution in Nigeria, *International Journal of Latest Technology in Engineering, Management & Applied Science (IJLTEMAS)* Volume IX, Issue IV, April 2020 | ISSN 2278-2540
- **C. N. Udanor et al (2019)**, Deploying an Open Source Cloud Computing Infrastructure for Academic Research. *IOSR Journal of Computer Engineering (IOSR-JCE)*, Volume 21, Issue 3, Ser. IV (May - June 2019), PP 61-74

#### **List of patents/exhibitions/shows/productions, etc from 2019 till date**

Sensor Based Aquaponics Fish Pond Datasets: IoT Fish Pond Monitoring Datasets. Available at: [Sensor Based Aquaponics Fish Pond Datasets | Kaggle](#)

## 68. Inorganic/Computational Chemistry Research Group

**Name of research group:** Inorganic/Computational Chemistry Research Group

**Main Research Focus:** Synthesis, Characterization and Computational/Simulation Studies of Carbonaceous materials, Metal-Organic Frameworks (MOFs), Covalent Organic Frameworks (COFs), Hydrogen-bonded Organic Frameworks (HOFs) and other Advanced Porous Materials (APMs), and their applications in gas separation and storage by adsorption, with special focus in carbon dioxide (CO<sub>2</sub>) capture.

**Most recent research project:** Development of Advanced Adsorbents for CO<sub>2</sub> Capture Applications.

**Other current or completed research projects:**

- Synthesis, Characterization and *In Silico* Studies of Novel Schiff Bases Derived from Organosilanes
- Utilization of Biochar as organic fertilizer for Seedling growth of *Zea mays* (Maize)
- Synthesis, Spectroscopic, Biological and DFT Studies of 2,4,6-Tris(4-Carboxyphenylimino-4<sup>1</sup>-Formylphenoxy)-1,3,5-Triazine and its Trinuclear Dy(III) and Er(III) Salen Capped Complexes
- Crystal, Spectroscopic and Quantum mechanics studies of Schiff Bases Derived from 4-nitrocinnamaldehyde
- Structural, Antimicrobial and *in Silico* Studies of Some Schiff Bases of Trans-paramethoxycinnamaldehyde Derivatives
- Synthesis, Characterization and Biological Studies of Trinuclear Ce(IV) Salen Capped Complex with 5-amino-2,4,6-tris(4-carboxybenzimidino)-1,3-pyrimidine
- Evaluation of some amino benzoic acid and 4-aminoantipyrine derived Schiff bases as corrosion inhibitors for mild steel in acidic medium: Synthesis, experimental and computational studies.

**Name of the Coordinator:** Prof. Nnamdi L. Obasi

**UNN email address of the coordinator:** [nnamdi.obasi@unn.edu.ng](mailto:nnamdi.obasi@unn.edu.ng)

**UNN email address of the RG:** [icc.researchgroup@unn.edu.ng](mailto:icc.researchgroup@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/carbon-and-advanced-porous-materials-research-group-and-inorganic-computational-chemistry-research-group/>

**Phone number of the RG:** 08037717717

**Phone number of the Coordinator:** 08037717717

**Base Faculty/Institute/Center of the RG:** Physical Sciences

**Department of the Coordinator:** Pure and Industrial Chemistry

**Headshot of the coordinator:**





### List and brief profiles of members :

<http://www.unn.edu.ng/internals/staff/viewProfile/MjY5Ng-->

- Prof. Nnamdi L. Obasi: He holds an MSc in Inorganic Chemistry (2004) and a PhD in Inorganic Chemistry (2011), all from the University of Nigeria, Nsukka. He graduated in 1999 winning an Award for his performance at the bachelor degree level, as the best graduating student in the Department of Pure & Industrial Chemistry. Prof. Obasi received the Elsevier Reviewer Recognition Award in 2013, 2018 and 2019. He has served as a Chairman and or Member, National Universities Commission (NUC) Accreditation Panel for Undergraduate Programmes at the several Federal, State and Private Universities, and Affiliate programmes since 2017 to date. He was a Panelist at NEST-FUNAI Pre-Conference Seminar, Federal University, Ndifu-Aleke, Ikwo (FUNAI), Ebonyi State (2016), and a guest speaker at the maiden Conference of the School of Basic and Applied Sciences, Taraba State Polytechnic, Suntai, Taraba State (2018).
- Dr. (Mrs.) Uchechukwu Susan Oruma: She is in the field of Pure and Industrial Chemistry and has a PhD in Inorganic Chemistry of the University of Nigeria Nsukka in October, 2017; she is also a member of Chemical Society of Nigeria (CSN). Her research interest is synthesis, characterization and biological studies of new Inorganic Pharmaceuticals. This is geared towards synthesis and characterization of organic ligands and their corresponding complexes. The synthesized compounds are tested for their antimicrobial and antimalarial activities. This research has produced nine publications in international peer reviewed journals and six in local journals. Of particular interest is the synthesis of a Tripodal Schiff base containing Pyrimidine Unit and Its Gd(III) Salen Capped Complex, which has been awarded patent (RP: NG/P/2018/134) in 2018. In May 2015, she was sponsored by the Royal Society of Chemistry to the 1<sup>st</sup> Tunisian Chemical Society conference held in Hammamet. Her research ambition is to produce new biologically active compounds that could be used for both medical and pharmaceutical purposes in Africa to combat diseases.

### Members Google Scholar Citation links

- Prof. Nnamdi L. Obasi: <https://scholar.google.com/citations?user=LVMv0UAAAAJ&hl=en>
- Dr.(Mrs.)UchechukwuSusanOruma: <https://scholar.google.com/citations?user=ZFJuJPUAAAAJ>

### Members Research gate links:

- <https://www.researchgate.net/profile/Obasi-Nnamdi>
- <https://www.researchgate.net/profile/Uchechukwu-Oruma-2/stats/report/weekly/2023-02-05>

### 10 key publications of the RG from 2019 till date:

- **L. N. Obasi et al** (2019): Structural, computational and *in silico* studies of Schiff bases derived from 2,3-dihydroxybenzaldehyde and molecular structure of their zwitterionic forms, *J. Mol. Struc.*, 1188, 69-75.
- C. G. Okenwa-Ani et al (2019): Heavy Metals Levels in Plastics Housing of Televisions: Is there a changing trend across three decades (1980-2000)?, *Iranian Journal of Toxicology*, 13(3), 27-32.

- Dege, N., Ersanli, C. C. and **Obasi. L. N.** (2019): Density Functional Theory Computations of (*E*)-4-((furan-2-ylmethylene)amino)-1,5-dimethyl-2-phenyl-1*H*-pyrazol-3(2*H*)-one. Proceedings of the 8th International Vocational Schools Symposium, UMYOS'19 SİNOP, Turkey, 11-13 June, 2019. Pp. 18-24.
- V. Ossai et al (2020): Crystal Structural and *In silico* Studies of Schiff bases derived from 4-aminoantipyrine, *Solid State Sciences*, 106, 106293,
- Nnamdi C. Okey, **Nnamdi L. Obasi**, Paul M. Ejikeme, Derek T. Ndinteh, Ponnadurai Ramasami, El-Sayed M. Sherif, Ekemini D. Akpan and Eno E. Ebenso; (2020): Evaluation of some amino benzoic acid and 4-aminoantipyrine derived Schiff bases as corrosion inhibitors for mild steel in acidic medium: Synthesis, experimental and computational studies, *J. Mol. Liquids*, 315, 113773,
- U. S. Oruma et al (2020): Synthesis, Characterization and Biological Studies of Trinuclear Ce(IV) Salen Capped Complex with 5-amino-2,4,6-tris(4-carboxybenzimidino)-1,3-pyrimidine, *Communications in Physical Sciences*, 5(3), 403-417.
- G. U. Kaior et al (2020): Structural, Antimicrobial and *in Silico* Studies of Some Schiff Bases of Trans-paramethoxycinnamaldehyde Derivatives, *Communications in Physical Sciences*, 5(4), 544-566.
- F. E. Ani et al (2021): Crystal, Spectroscopic and Quantum mechanics studies of Schiff Bases Derived from 4-nitrocinnamaldehyde, *Scientific Reports*, 11(1), 8151,
- C. U. Ibeji et al (2022): *Synthesis, Crystal structure, Photoluminescence Properties and Quantum mechanics Studies of Two Schiff Bases of 2-amino-p-cresol*, *J. Mol. Struc.*, 1262, 133046, <https://doi.org/10.1016/j.molstruc.2022.133046>.
- I. J. Opara, P. O. Ukoha, **N. L. Obasi**, N. R. Ekere; (2022): Utilization of Biochar as organic fertilizer for Seedling growth of *Zea mays* (Maize), *International Journal of Environment, Agriculture and Biotechnology*, 7(4), 287-293.

#### List of patents/exhibitions/shows/productions, etc from 2019 till date:

- U. S. Oruma, P. O. Ukoha and **L. N. Obasi** (2018): Synthesis of a Tripodal Schiff Base containing Pyrimidine Unit and its Gd(III) Salen Capped Complex, *Nigerian Patent* No: NG/P/2018/134.
- **L. N. Obasi et al** (2018): Synthesis of Some Schiff Bases of Trans-paramethoxycinnamaldehyde Derivatives, *Nigerian Patent* No: NG/P/2018/269.

## 69. Materials Chemistry Research

### Main research focus and other areas of research interest of the RG:

Materials for treating industrial effluents; Materials for corrosion inhibition

**Title of most recent research project:** Catalytic materials for chemical reactions

**Other current or completed research projects:** Materials for fossil fuels; Materials for treating industrial effluents; Materials for mitigating green houses gases; Materials for renewable energy

**Name of the Coordinator:** Prof. P. O. Ukoha

**UNN email address of the RG:** pius.ukoha@unn.edu.ng

**UNN email address of the coordinator:** pius.ukoha@unn.edu.ng

**UNN email address of the RG:** materialschemistry.rg@unn.edu.ng

**Current webpage of the RG:** <https://www.unn.edu.ng/materials-chemistry-research/>

**Phone number of the RG:** Prof. P. O. Ukoha 08037171322, Dr. J. U. Ani 08057434965, Dr. K. E. Ugwu 08136204983, Dr A. C. Ofomatah 08034010807.

**Phone number of the coordinator:** 08037171322

**Base Faculty/Institute/Centre of the RG:** Physical Sciences

**Department of the Coordinator:** Pure and Industrial Chemistry

#### **List and brief profiles of members:**

- Prof. P. O. Ukoha. Status: Professor. Qualifications: BSc (1985), MSc (1988), PhD (1999). Specialization: Inorganic/ Analytical Chemistry. Affiliation: Department of Pure and Industrial Chemistry. Supervised 25 Masters and 18 PhD Degrees
- Dr. J. U. Ani. Status: Associate professor. Qualifications: B.Eng (1988), M.Eng (2001), PhD (2016). Specialization: Industrial Chemistry/ Chemical Engineering. Affiliation: Department of Pure and Industrial Chemistry.
- Dr. K. E. Ugwu. Status: Senior Lecturer. Qualifications: B.Sc (1992), M.Sc (2010), PhD (2016). Specialization: Analytical/ Environmental Chemistry. Affiliation: Department of Pure and Industrial Chemistry.
- Dr. A. C. Ofomatah. Status: Deputy Director/ Senior Research Fellow. Qualification: PhD. Specialization: Analytical/ Environmental Chemistry. Affiliation: National Centre for Energy Research and Development, University of Nigeria, Nsukka/ Department of Pure and Industrial Chemistry, University of Nigeria, Nsukka.

**Members Google Scholar Citation links** Pius Ukoha@Google Scholar, Julius Ani@Google Scholar, Kenekwku Ugwu@Google Scholar, Anthony Ofomatah @Google Scholar <https://uc.xyz/1w315k?pub=link>.

#### **10 key publications of the RG from 2019 to date**

- Uwanta J E et al (2021). Neodymium (I I I), Samarium (I I I) Complexes of 2,2'-(1E,1'E)(1,2-phenylenebis(azanylidene)bis(methanylidene)diphenoyl Ligand: Synthesis, Characterization and Biological Activity. *Oriental Journal of Chem.*,37(3).
- Ezeh, EC et al (2021). Novel Immobilized Ligand on Polymer Matrix as Adsorbent for Water Purification. *Materials Performance and Characterization*,10(1),658-673
- Okenwa CJ et al (2021). Quantification and Speciation of Trace Amount of Vanadium (I I I) and Vanadium (V) using 2-[ (E)-[3-(E)-2-hydroxyl)methyleneamino]phenylimidomethyl]penol. *INOSR Applied Sciences*,7(1),60-75.
- Oruma US et al (2021). Synthesis, Spectroscopic, Biological and DFT Studies of 2,4,6-Tris(4-carboxyphenylimino-4'-formylphenoxy)-1,3,5-triazine and its Trinuclear Dy(I I I) and Er(III) Salen Capped Complexes. *Communication Physical Sciences*,7(3),182-203.
- Oruma U S, Ukoha P O and Ukwueze N N (2021). Synthesis and Biological Studies of a Tripodal Schiff Base. *Nigerian J.Chem. Research*,26(1),33-55.
- Oruma U S , Ukoha P O and Ezeorah J C (2021). Synthesis, Characterization and Biological Studies of Trinuclear Nd (I I I) Salen Capped Complex. *The Pacific J.Sc. Technology*, 22(1),136-153.
- Ojo A S., Mamman S and Ukoha P O (2022). Characterization and Antimicrobial Studies of 3-Bromobenzaldehydenicotinic Acid Hydrazone and it's Co(I I), Cu(I I),MN(I I) and Ni(I I) Complexes. *Journal of Applied Physical Sciences International*,14(1), 1-9.

- Nicholas E S and Ukoha P O (2022). Investigative Study of Climate Change on Air Quality, Environment and Human Health in Southeast, Nigeria. International Journal of Scientific and Engineering Development,7(6), 1-3.
- Ijuo G A et al (2023). Experimental and Computational Investigation of Anticorrosion Properties of Eastern Nigerian Propolis Extract on Mild Steel in Acidic Medium. International Journal of Advanced Research in Chemical Science,10(1), 1-13.
- Ani J U et al (2023). Process efficiency and kinetics of coagulation for the decontamination of paint industry effluent using cashew nut husk tannins and alum. Biomass Conversion and Biorefinery, <https://doi.org/10.1007/s13399-023-03834-5>.

## 70. Organic Synthesis/Medicinal Chemistry

**Name of Research Group:** Organic Synthesis/Medicinal Chemistry

**Main Research Focus of the RG:** Applications of classical and modern organic synthetic methodologies in the synthesis and functionalization/derivatization of novel phenothiazine, phenoxazine and sulphonamide motifs. Structure activity relationship studies of newly synthesized derivatives. Isolation, purification, structural elucidation and total synthesis of bioactive components from plant material.

**Name of the Coordinator:** Prof Uchechukwu Chris Okoro

**UNN email address of the RG:** osmc@unn.edu.ng

**UNN email address of the Coordinator:**

**Current webpage of the RG:** <https://www.unn.edu.ng/organic-synthesismedicinal-chemistry-research-group/>

**Phone number of the RG:** 08038995403

**Phone number of the Coordinator:** 08038995403

**Base Faculty/Institute/Center of the RG:** Physical Sciences

**Department of the Coordinator:** Pure and Industrial Chemistry

### List of members and brief intro:

Prof. B. E. Ezema, email: benjamin.ezema@unn.edu.ng

Prof. (Mrs.) M. A. Ezeokonkwo, email: mercy.ezeokonkwo@unn.edu.ng

Dr. (Mrs) A.U. Ofoefule, email: akuzuo.ofoefule@unn.edu.ng

Dr. E. A. Onoabedje, email: efeturi.onoabedje@unn.edu.ng

Dr. (Mrs.) F. U. Eze, email: florence.ali@unn.edu.ng

Dr. D. I. Ugwu, email: izuchukwu.ugwu@unn.edu.ng

Dr. (Mrs.) F. N. Ibeanu, email: ibeanungozi@gmail.com

Mr. J. I. Ayogu, email: [jude.ayogu@unn.edu.ng](mailto:jude.ayogu@unn.edu.ng)

Mrs. C. P. Uzoewulu, email: chiamaka.obimma@unn.edu.ng

Dr. J.A. Ezugwu, email: james.ezugwu@unn.edu.ng

Mr. S.I. Attah, email: Solomon.attah@unn.edu.ng

Mrs. I.I. Otunomo, email: idowu.otunomo@unn.edu.ng

Mr. E.L. Onyeyilim, email: ebuka.onyeyilim@unn.edu.ng

Mr. O.U. Okenyeka, email: obinna.okenyeka@unn.edu.ng

Mrs. V.I. Okonkwo, email: Vivian.okonkwo@unn.edu.ng

Mrs. O.H. Nwaehiri, email: odinaka.nwaehiri@unn.edu.ng

## FACULTY OF SOCIAL SCIENCES

### 71. Behaviour and Attitude Change Research Group (BARG)

**Main Research Focus and other areas of interest:** To promote research, education, training, mentoring, clinical, organisational and health practice, and policy development in the area of behaviour change and psychosocial interventions.

**Most recent research project:** Development and Validation of e-Fingerprint Class Attendance Management System for Nigerian Universities.

**Other recent research projects:**

- Understanding community responses to endemic methamphetamine use in Southeast Nigeria funded by the International Consortium of Universities for Drug Demand Reduction (ICUDDR)
- Hope Barometer International Research Program
- Exploring the impact of crimes on the health of urban residents funded by the Community-led Responsive and Effective Urban Health Systems (CHORUS) University of Leeds, United Kingdom
- General Health, Speech and Physical Activity Relationship Assessment Study in Nigeria, Ghana, Botswana and Tanzania
- A cross-cultural study of the “geometry” of harmonious color combinations in CILAB color space
- Expanding evidence for the Black Racialization Hypothesis-(Collaboration with the University of Toronto, Canada)
- Investigating associations between Media Exposure, Climate Anxiety and Mental Health (MECAMH)

**Name of the coordinator:** Prof Ike E. Onyishi

**UNN email address of the RG** bac.rg@unn.edu.ng

**UNN email address of the coordinator:** [ernest.onyishi@unn.edu.ng](mailto:ernest.onyishi@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/behaviour-and-attitude-change-research-group-barg/>

**Phone number of the RG:** +2348037485355

**Phone number of the coordinator:** +2348037485355

**Base Faculty/Institute /Centre of the RG:** Faculty of the Social Sciences

**Department of the coordinator:** Psychology

**Headshot of the coordinator**



### List and brief profiles of members:

- Prof Ike E. Onyishi
- Ike Onyishi holds a doctorate degree in organisational psychology. He is a Professor and Dean, Faculty of the Social Sciences, University of Nigeria, Nsukka. Ike was Acting Director, Centre for Policy and Research. He has served as a visiting scholar/research fellow in many leading universities, including the University of Muenster, Germany, University of Wroclaw, Poland, and Rhodes University, Grahamstown, South Africa. He is very active in research and has collaborated with over 100 scholars in more than fifty countries in many successful research projects. He has published over 100 papers in the areas of organisational behaviour, careers, employability, and other social issues. Some of his articles have appeared in reputable journals including the highly-ranked *Proceedings of the National Academy of Sciences*, *Nature Communications*, *Psychological Science*, *Journal of Management and Organizations*, and *Journal of Cross-cultural Psychology*. He has served as an editor/reviewer in many reputable journals. In addition to his research activities, he has consulted for many local and international businesses in the banking, oil and gas, telecommunications, and service sectors as well as for development agencies. Ike Onyishi is an Alexander von Humboldt Fellow, and fellow of the Nigerian Psychological Association (NPA).  
<https://scholar.google.com/citations?user=GoVqanYAAAAJ&hl=en>  
<https://scholar.google.com/citations?user=lqxv-KcAAAAJ&hl=en>  
<https://www.researchgate.net/profile/Ike-Onyishi>
- Prof Lawrence O. Amazue  
<https://www.unn.edu.ng/internals/staff/viewProfile/NDUwMg--/5>  
<https://scholar.google.com/citations?user=NA3fmtcAAAAJ&hl=en>  
<https://www.researchgate.net/profile/Lawrence-Amazue>
- Prof Philip Mefoh  
Philip Chukwuemeka Mefoh is a Professor of Experimental Psychology in the Department of Psychology, University of Nigeria, Nsukka. His research interest lies in the area of cognitive processes and general/indigenous psychology. Professor Philip C. Mefoh received the Ph.D Degree in Experimental Psychology from the University of Nigeria Nsukka in 2009. His PhD thesis won both the Faculty Prize and the Vice Chancellor's Postgraduate Prize for the overall best PhD thesis in the University of Nigeria, Nsukka for 2008/2009 academic session. Professor Mefoh is a Fellow of the Nigerian Psychological Association (NPA) and was formerly Vice President of the Association between 2011 and 2017.  
<https://www.unn.edu.ng>Philip.mefoh>  
<https://scholar.google.com/citations?user=F6JpPN4AAAAJ&hl=en>  
<https://researchgate.net>philip.mefoh>
- Rev Sr Dr Maria Chidi Onyedibe  
Rev Sr Dr M.C.C. Onyedibe is a senior lecturer in Department of Psychology, UNN. She is currently a Postdoctoral fellow under Professor Karen Steindorf, (Head of Dept), German Cancer Research Center (DKFZ) Foundation under Public Law, Im Neuenheimer Feld 280, 69120 Heidelberg, Germany.  
<https://www.researchgate.net/profile/Maria-Chidi-Onyedibe>

- Dr Tochukwu Charles Orjiakor  
Tochukwu Orjiakor is a clinical and forensic psychologist with interest in understanding and rehabilitating deviant/offending behavior. He completed his doctorate degree in 2021 on the topic of appetitive aggression. He also researches into health systems and policy, focusing on accountability and transparency issues, and other inefficiencies that stalls health service delivery in African settings. Tochukwu teaches modules on forensic psychology and research methods.  
<https://scholar.google.com/citations?user=zQolRZ0AAAAJ>  
<https://www.researchgate.net/profile/Tochukwu-Orjiakor>
- Dr JohnBosco Chika Chukwuorji  
Dr JohnBosco Chika Chukwuorji is a Senior Lecturer in the Department of Psychology, University of Nigeria, Nsukka. He was a Fulbright scholar and visiting researcher at Cleveland State University Cleveland, Ohio USA (2019-2020). He holds a PhD in clinical psychology. As a research fellow in the Center for Translational and Implementation Research (CTAIR), University of Nigeria Nsukka, he is a core team member in the use of implementation science to enhance the effectiveness and quality of healthcare services in Nigeria. His research is focused on finding innovative approaches to provide quality mental healthcare for people living with challenging health conditions, forcibly displaced persons, justice-involved individuals, and other vulnerable populations. Since 2019 till date, Dr Chukwuorji has been consistently listed in top 500 authors in all research fields by scholarly output in Nigeria (courtesy of SciVal–Elsevier Authors Ranking of Authors). In addition to being the Editor of Nigerian Journal of Psychological Research (founded in 1986) since 2015, he serves on the editorial board of seven other reputable journals. In 2019, he won the Global Peer Reviewer Award (Top 1% in Psychiatry and Psychology), through Web of Science and Clarivate Analytics (Thompson Reuters) powered by Publons. He was an invited speaker at some international conferences including the First African Positive Psychology Conference (South Africa, 2018), National Symposium on Drugs and Drug Policy in Nigeria (Abuja, 2021). Professionally, he is actively involved in many associations including serving as the current secretary - Research and Scholarship Committee of the Nigerian Psychological Association (NPA). He is one of the four recipients of the Developing Country Fellowship Award (2022) of the ISSBD for his research on school bullying. Recently, he got a postdoctoral position in the College of Human Medicine, Division of Public Health, Michigan State University, USA. He desires to continue conducting impactful research as well as to serve as a mentor and help to train the next generation of mental health implementation scientists and dissemination researchers.  
<https://www.unn.edu.ng/internals/staff/viewProfile/NDUwOQ--/>  
<https://scholar.google.com/citations?hl=en&user=8TdJDikAAAAJ>  
[https://www.researchgate.net/profile/Johnbosco\\_Chukwuorji](https://www.researchgate.net/profile/Johnbosco_Chukwuorji)
- Dr Chikodiri Nwangwu  
Chikodiri Nwangwu is Senior Lecturer at the Department of Political Science, University of Nigeria, Nsukka. He holds Ph.D in political economy from the same University. His research and teaching interests straddle security, peace & conflict, election, and social movements. He has published well-researched articles in

several reputable journals, including *African Affairs, Society, Journal of Asian and African Studies, Armed Forces & Society, Security Journal, Democracy and Security, International Feminist Journal of Politics, Review of African Political Economy, Japanese Journal of Political Science*, among others. In 2017, Dr Nwangwu was among the recipients of the University of Nigeria Vice Chancellor's Financial Award of Academic Excellence for his publications in Thomson Reuters indexed journals. Between 2020 and 2022, Dr Nwangwu served as the Secretary of the Faculty of the Social Sciences Conference Committee at the University of Nigeria. Dr Nwangwu is an Associate Editor of the *University of Nigeria Journal of Political Economy* (UNJPE). Alongside two other colleagues, Dr Nwangwu is currently guest-editing a special issue of the *African Renaissance* journal. He has consulted for Friedrich Ebert Stiftung (FES) Nigeria, Partners West Africa Nigeria (PWAN), and Centre for Democracy and Development (CDD). He is also an active member of the APSA, NPSA, AROCSA, NYA and CORN-West Africa.

- Dr Nche George: A lecturer and holds a Ph.D in religion and society at the department of Religion and Cultural Studies, University of Nigeria, Nsukka (UNN). His major research focus is on Religion and Ecology where he explores the intersection between religious beliefs/values/actors and climate change/environmental sustainability. Other research foci are environmental ethics, religion and social issues. He is currently researching the influence of religious affiliation and attendance on climate change interpretations and actions among churchgoers in Nigeria, where he aims to provide important insights to guide engagements or conversations about climate change with different Christian denominations in Nigeria. Dr Nche has authored/co-authored about 50 peer-reviewed publications, organized and attended many local and international conferences. Dr Nche is currently an Associate Editor of *Nigerian Journal of Social Sciences*, and member of professional organizations such as the *Nigerian Association for the Study of Religions* (NASR), the Association for the Study of Religion in Southern Africa (ASRSA), the Centre for the Study of Religion and Politics (CSRP) – Scholars at the Peripheries and many others.  
<https://www.unn.edu.ng/internals/staff/viewProfile/NTAz>  
<https://www.researchgate.net/profile/Chikodiri-Nwangwu>
- Dr Kingsley Ibeawuchi Enwereuzor  
<https://www.unn.edu.ng/internals/staff/viewProfile/NDQ5NQ-->
- Dr Chiemezie Attama. She holds Bachelor and Masters degrees in Sociology/Anthropology, specializing in population studies. She is currently a Senior Lecturer in the Department of Sociology/Anthropology, University of Nigeria, Nsukka, Enugu State Nigeria. She has taught General Demography and Sociology of the Family at the undergraduate level. Her research interests are on issues in population, health and development.  
<http://www.unn.edu.ng/internals/staff/viewProfile/MTQ2>  
<https://scholar.google.com/citations?user=8X0mEAYAAAAJ&hl=en>  
<https://www.researchgate.net/profile/Chiemezie-Atama>
- Mr Amuche Onyishi  
<https://www.unn.edu.ng/internals/staff/viewProfile/NDYxNw-->  
<https://www.researchgate.net/profile/Amuche-Onyishi-2>



- Miss Peace N. Amanambu  
<https://www.researchgate.net/profile/Peace-Amanambu>
- Mr Chiagoziem Aneke  
<https://www.researchgate.net/profile/Chiagoziem-Aneke>

### **10 key publications of the RG from 2019 till date**

- Onyishi, I. E., Ugwu, F. O., Ugwu, L. E., Ujoatuonu, I. V., Okeja, U. (2022). The 'African time' syndrome: Understanding lateness among Nigerian public service workers. *Journal of Social Services Research*. <http://dx.doi.org/10.1080/01488376.2022.2139041>
- Iorfa, S. K., Onyishi, A. B., Anozie, E. U., Chukwuorji, J. C., & Ifeagwazi, C. M. (2021). Sexual violence and child poverty: Lived experiences of child sexual violence survivors in Nigeria. *Journal of Social Service Research*. Online first. doi: 10.1080/01488376.2021.1979710
- Ogba, K. T. U., Onyishi, I. E., & Chukwuorji, J. C. (2021). Self-disclosure in intimate relationships: Moderating role of online moral foundations. *Current Psychology: Current Psychology: A Journal for Diverse Perspectives on Diverse Psychological Issues*, 40, 4785–4790. doi: 10.1007/s12144-019-00420-9
- Ugwu, D. I., Onyedibe, MC. C., & Chukwuorji, J. C. (2020). Anxiety sensitivity and psychological distress among hypertensive patients: the mediating role of experiential avoidance. *Psychology Health & Medicine*, doi 10.1080/13548506.2020.1764599.
- Onyishi, I. E., Amaeshi, K., Ugwu, F. O., Enwereuzor, I. K. (2020). Going the extra mile because my organization does: How does corporate social responsibility influence organizational citizenship? *Management and Organization Review*, 16(1), 169-197.
- Nwangwu, C., Onuoha, F.C., Nwosu, B.U. & Ezeibe, C. (2020). The political economy of Biafra separatism and post-war Igbo nationalism in Nigeria. *African Affairs*, 119 (477), 526–551. Doi: 10.1093/afraf/adaa025.
- Onyishi, I. E., Enwereuzor, I. K., Ogbonna, M. N., Ugwu, F. O., & Amazue, L. O. (2019). Role of career satisfaction in basic psychological needs satisfaction and career commitment of nurses in Nigeria: A self-determination theory perspective. *Journal of Nursing Scholarship*. doi: 10.1111/jnu.12474
- Orjiakor, C. T., Eze, J., Chinweoke, M., Ezenwa, M., Orjiakor, I., Onwujekwe, O., & Palamar, J. (2023). A systematic review of actors, actions, and outcomes of community-based efforts to prevent or reduce methamphetamine use. *Addiction Research & Theory*, 1-10.
- Zickfeld, J. H., et al. (2021). Tears evoke the intention to offer social support: a systematic investigation of the interpersonal effects of emotional crying across 41 countries. *Journal of Experimental Social Psychology*, 95, 104137–104137. <https://doi.org/10.1016/j.jesp.2021.104137>
- Nche, G. C. (2020). The religion-environment (climate change) connection: Evidence from Nigeria. *Worldviews: Global Religions, Culture and Ecology*, 24(1), 81-115.

### **List of patents/exhibitions/shows/productions, etc from 2019 till date:**

Free Research Methodology Training/Workshop in collaboration with Aphriapub Limited at University of Nigeria, Nsukka (March 2019).

## 72. Democratic Initiatives, Civic, Social, and Environmental Engagements Research Group (DICSEERG)

**Main Research Focus:** Socio-political and environmental engagements, peace and conflict resolution.

### **Other areas:**

- a. Political Science Education
- b. Democracy & Governance
- c. Geographic Education & Environmental sustainability
- d. Community development
- e. Values & Moral Education.
- f. Civic & Social Studies Education
- g. International & Comparative Education
- h. Peace, Conflict, Security & Safety Education
- i. Digital political contents & contexts.
- j. Social policies, & Human development theories/ models
- k. Economics Education.
- l. Information Science.
- m. Cultural studies.
- n. Human Resources/Management.
- o. Human rights and Human rights abuse (Human trafficking, Child labour, Sexual abuse e.t.c.)
- p. Demographic studies
- q. Gender related studies.

**Most recent research project:** Analysis of Resolution Strategies for Resource-Related Conflicts of Farmers and Herders in South East, Nigeria.

### **Other current research projects**

- a. Patterns of Vote Buying and Post-Electioneering Challenges in 21st Century Nigeria.
- b. A Comparison of Reciprocal and Problem-Solving Instructional Strategies in the Information and Communication Technology (ICT) Era.
- c. Climate change awareness and attitude among multi-cultural developing economies
- d. Social media and spark on immoral practices among secondary school students in Enugu State.
- e. Knowledge and attitude of senior secondary school students towards post Covid-19 pandemic behavior management in Enugu State.

**Name of the coordinator:** Grace Ogechukwu Ugwonna, PhD

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**UNN email address of the coordinator:** [grace.ugwonna@unn.edu.ng](mailto:grace.ugwonna@unn.edu.ng)

**Current UNN webpage of the RG:** <https://www.unn.edu.ng/democratic-initiatives-civic-social-and-environmental-engagements-research-group-dicseerg-2/>

**Phone number of the coordinator:** +2348038306156

**Base Faculty/Institute /Centre of the RG:** Faculty of Education

**Department of the coordinator:** Social Science

**Headshot of the coordinator:**



### **List and brief profiles of members**

- Grace Ogechukwu Ugwonna, PhD. Department of Social Science Education, Political Science Education and Curriculum Studies [grace.ugwonna@unn.edu.ng](mailto:grace.ugwonna@unn.edu.ng) Grace Ogechukwu Ugwonna, is a Senior Lecturer in the Department of Social Science Education, Faculty of Education, University of Nigeria, Nsukka. She holds a PhD in Political Science Education from University of Nigeria Nsukka; M.Ed in Curriculum Studies (with bias in Political Science Education) and B.Sc/Ed in Political Science Education. She was the Departmental Examination Officer (2011-2020), Staff Adviser, Faculty of Education Students Association (ESA) University of Nigeria, Nsukka (2018-2020), Academic Adviser, Political Science Education Students, University of Nigeria, Nsukka (2014-date). Her areas of research interest are; democratic governance, civic/political engagements, pedagogical issues and Gender related studies. She has participated in international collaboration (teaching) at the University of Leon, Spain. She is the Coordinator, Democratic Initiatives, Civic, Social, and Environmental Engagements Research Group (DICSEERG) University of Nigeria, Nsukka. Research gate link: <https://www.researchgate.net/scientific-contributions/Grace-Ogechukwu-Ugwonna-2174608737>
- Prof Samuel Agozie Ezeudu. Department of Social Science Education, Environmental Education/ Measurement and Evaluation [samuel.ezeudu@unn.edu.ng](mailto:samuel.ezeudu@unn.edu.ng) EZEUDU, Samuel Agozie is a Professor of Geography Education Measurement and Evaluation in the Department of Social Science Education, University of Nigeria, Nsukka (UNN). He holds a PhD from UNN (1992). M.Ed His current research is on Geography and Environmental Education pedagogy and 21st century evaluation machines and procedures. He has successfully supervised 33 PhDs. He is currently supervising 7 PhDs. He was appointed a full Professor in 2003. His email address is samuel.ezeudu@unn.edu.ng. His telephone number is 08036754117
- Prof Okechukwu O. Nwaubani. Department of Social Science Education, Social Studies and Curriculum Studies [okecukwu.nwaubani@unn.edu.ng](mailto:okecukwu.nwaubani@unn.edu.ng)
- Prof. Bernedeth. N. Ezegbe. Department of Social Science Education, Social Studies and Political Science Education [bernedeth.ezegbe@unn.edu.ng](mailto:bernedeth.ezegbe@unn.edu.ng)
- EZEGBE, Bernedeth Nkiruka is a Professor of Social Science Education (Social Studies) in the Faculty of Education, University of Nigeria, Nsukka. She holds a PhD from University of Nigeria, Nsukka. She was Acting Head (2010-2012) and currently Head of Department Social Science Education (2020-date). Her current research work is on Socio-Cultural Development. She has successfully supervised many Masters

and PhD students and she is currently supervising more. She was appointed a Full Professor in 2019. She has taught Full-time for 19 years. She has published widely both in local and international journals. She has also attended many academic conferences. Her email address is [bernedeth.ezegbe@unn.edu.ng](mailto:bernedeth.ezegbe@unn.edu.ng). Her phone number is 08035847979.

- Dr. Chinyere L. Chukwu. Department of Social Science Education, Social Studies [loveth.chukwu@unn.edu.ng](mailto:loveth.chukwu@unn.edu.ng)
- Dr Chinyere Loveth Chukwu is a Senior Lecturer in the Department of Social Science Education, Faculty of Education, University of Nigeria, Nsukka. She worked with the National Institute for Educational Planning and Administration (NIEPA), Ondo for 12 years and left as a Senior Training and Research Fellow before joining the University of Nigeria, Nsukka. She holds a B.Ed (Hons) degree (Second class upper) in Social Studies Education, Obafemi Awolowo University, Ile-Ife. M.Ed Social Studies Teacher Education, University of Ibadan and Ph.D Social Studies Teacher Education, University of Ibadan. Her skill areas include lecturing, facilitation mode of training, capacity building of teachers and teacher managers, capacity building of education sector planners and managers. She is also well experienced in course design, versed in developing training guides, modules, including Open and Distance Learning (ODL) course guides (for which she received commendation from the Commonwealth of Learning Consultant). She is also an expert in Cost Analysis in Education as attested by World Bank certification.
- Dr. Sylvanus Ugwuda. Department of Social Science Education, Environmental Education and Measurement and Evaluation [sylvester.ugwuda@unn.edu.ng](mailto:sylvester.ugwuda@unn.edu.ng)
- Dr. Sylvanus Ochetchukwu Ugwuda is a lecturer 1 officer in the Department of Social Science Education, University of Nigeria, Nsukka. He holds a Ph.D. in Educational Measurement & Evaluation; M.Sc. (Geog.). M.Ed. (Measurement & Evaluation); B.Sc. Ed. (Geog.); and N.C.E. (Bio. / Geog.). His areas of research interest are; Psychometrics, Geography & Environmental Education, Educational Research and Statistics. Dr. Ugwuda has served in the university since February, 2016 to date during which period he has successfully supervised five Masters degree students and numerous other students in the Faculty of Education.
- Dr. Patricia Aroh. Department of Social Science Education, Political Science Education [patricia.aroh@unn.edu.ng](mailto:patricia.aroh@unn.edu.ng)
- Dr. Sylvester Ogbueghu. Department of Social Science Education, Economics Education [sylvester.ogbueghu@unn.edu.ng](mailto:sylvester.ogbueghu@unn.edu.ng)
- Mr. Luke Ezema O. Department of Social Science Education, Political Science Education [chizoba.ezema@unn.edu.ng](mailto:chizoba.ezema@unn.edu.ng)
- Vivian Ogochukwu Nwaubani. Adult Education and Extra Mural Studies, Community Development [vivian.nwaubani@unn.edu.ng](mailto:vivian.nwaubani@unn.edu.ng)

**Members Google Scholar Citation links:**

**Members Researchgate links:**

Grace Ogechukwu Ugwonna: <https://www.researchgate.net/scientific-contributions/Grace-Ogechukwu-Ugwonna-2174608737>

### 73. Gender and Development Studies Research Group

**Main Research Focus of the RG:** Reproductive health issues associated with sexuality, mechanisms for protecting women's reproductive health and rights, and the need to enhance male involvement in reproductive health.

**Title of most recent research project:** Promoting positive masculinity for sexual and reproductive health and rights and gender equality in informal settlements in selected cities in sub-Saharan Africa, 2019-2023

**Name of the Coordinator:** Dr Chidi Ugwu

**UNN email address of the RG:** gdsrg.unn@unn.edu.ng

**UNN email address of the coordinator:** chidi.ugwu@unn.edu.ng

**Current webpage of the RG:** <https://www.unn.edu.ng/gender-development-studies-research-group/>

**Phone number of the RG:** 08068092148

**Phone number of the coordinator:** 08060910453

**Base Faculty/Institute/Center of the RG:** Social Sciences

**Department of the Coordinator:** Sociology & Anthropology

#### **Brief profiles of members**

Chidi Ugwu has a background in cultural anthropology and a PhD in medical anthropology. He has taught anthropology and qualitative methods at the University of Nigeria, Nsukka since 2011 and has guest-lectured in the University of Melbourne's School of Population and Global Health since 2017. A fellow of the Harvard Radcliffe Institute, his research interests circulate around the asymmetries of knowledge and power; and, to highlight these, he casts nuanced glances at the landscapes of public health, politics and religion. His studies have been supported with funding from the American Council of Learned Societies, Harvard Radcliffe Institute, Werner-Gren Foundation, International Development Research Center, African Population and Health Research Center, and TETFund Nigeria. His work has featured in *American Anthropologist*, *Ethnography*, *Journal of Asian and African Studies*, *The Lancet*, *The Qualitative Report*, *World Archaeology* and *Africa Spectrum*. [Google Scholar Citation link](#). [ResearchGate link](#).

Ijeoma Igwe holds a PhD in population studies. She has taught Demography and Social Research Methods at the undergraduate and graduate levels in the University of Nigeria, Nsukka. Her research borders on issues in population, health and development, and has been supported by the World Health Organization, the World Bank and TETFund. [Google Scholar Citation link](#). [ResearchGate link](#).

Chiemezie Atama holds a PhD in Sociology. She is a Senior Lecturer in the Department of Sociology & Anthropology, UNN and is the Founding Director, Equity Watch Initiative [E-WIN], a non-governmental organization committed to promoting gender equality and empowering women and girls. A climate activist,

she is passionate about promoting gender justice in environmental sustainability. She is a certified Empowerment Self Defense level 1 Instructor, a skill she is leveraging to reduce gender-based violence especially sexual harassment and abuse in Nigeria. She is a fellow of 1000 Voice of Every Woman Treaty, a global campaign to end violence against women and girls. [Google Scholar Citation link](#). [ResearchGate link](#).

Ngozi Idemili-Aronu is a Senior Lecturer in the Department of Sociology & Anthropology, UNN. She holds a PhD in Medical Sociology and has more than twelve years of teaching and research experience. Her research interest mainly focuses on women's health, community health, health technologies and clinical research. She is Principal Investigator, Co-PI and key personnel in several ongoing funded projects. An avid team player, she has participated in several multidisciplinary and multi-institutional research studies. [Google Scholar Citation link](#). [ResearchGate link](#).

Uchenna Teresa Okonkwo is a teaching staffer based in the Department of Sociology & Anthropology, UNN. I have a doctorate in the field of Gender and Family Studies. Her research interest focuses on sexual and reproductive health, women in agriculture and gender-based violence. She applies her research to advancing feminist struggles and gender advocacy. She has published several academic papers and also read papers in various academic conferences. She belongs to professional bodies that include European Centre for Research Training and Development UK and Society for Research and Academic Excellence. She completed online courses in Monitoring and Evaluation in Global Health, University of Washington (March, 2021), and Leadership and Management in Health, University of Washington (June, 2021). [Google Scholar Citation link](#). [ResearchGate link](#).

Aloysius Odii holds a PhD in demography and population studies from the University of Nigeria. He is an academic staff in the Department of Sociology & Anthropology, UNN. A passionate researcher, he was a collaborator in developing an anti-corruption curriculum and a text for the Anti-Corruption Academy of Nigeria (ACAN), a project sponsored by UNODC in 2017. He is also a research associate with Health Policy Research Group (HPRG) and has participated in many research projects, including the Anti-Corruption Evidence (ACE) Project on corruption in health and education sectors. His areas of interest are health systems research, migration and sexual and reproductive health and rights. [Google Scholar Citation link](#). [ResearchGate link](#).

Kelechi Okpara is a Lecturer in the Department of Sociology & Anthropology, UNN and a skilled data analyst. He holds a Masters degree in Environmental Sociology. His doctorate research is focusing on how societies learn about disaster risk reduction and the mainstreaming processes. His research interests circulate around the triad of population, health and environment. [Google Scholar Citation link](#). [ResearchGate link](#).

### Key publications of the RG from 2019 till date:

- Izugbara C et al (2022). Positive masculinity programs, gender attitudes and practices, and health behaviors among men and boys in poor urban settlements in Democratic Republic of Congo, Nigeria, and Rwanda. International Center for Research on Women, Washington DC, USA; Population and Health Research Institute, Kinshasa, DRC; Gender & Development Studies Research Group, Department of Sociology/Anthropology, University of Nigeria, Nsukka, Nigeria; and The Rwanda Men's Resource Centre, Kigali, Rwanda. Available from: [https://www.researchgate.net/publication/368274611\\_Positive\\_masculinity\\_programs\\_gender\\_attitudes\\_and\\_practices\\_and\\_health\\_behaviors\\_among\\_men\\_and\\_boys\\_in\\_poor\\_urban\\_settlements\\_in\\_the\\_Democratic\\_Republic\\_of\\_Congo\\_Nigeria\\_and\\_Rwanda](https://www.researchgate.net/publication/368274611_Positive_masculinity_programs_gender_attitudes_and_practices_and_health_behaviors_among_men_and_boys_in_poor_urban_settlements_in_the_Democratic_Republic_of_Congo_Nigeria_and_Rwanda)
- Atama, C et al (2021). Challenges to vital registration in Nigeria. *International Journal of Sociology and Anthropology* 13(1), pp. 1-8. Available from: <http://www.academicjournals.org/IJSA>

## 74. Multidisciplinary Psycho-oncology Research Group (MPORG)

**Main Research Focus:** To conduct research on the impact of cancer and its treatment on patients and care givers, bio psychosocial factors in cancer, psychosocial treatment approaches in oncology care and management, cancer rehabilitation, nutrition and physical activities in cancer, and cultural/local practices in cancer care.

**Title of most recent research project:** The Impact of COVID -19 pandemic on Cancer Patient's Well-being in Nigeria.

**Name of the Coordinator:** Rev. Sr. Dr. Maria-Chidi Christiana Onyedibe

**UNN email address of the coordinator:** [christiana.onyedibe@unn.edu.ng](mailto:christiana.onyedibe@unn.edu.ng)

**UNN email address of the RG:** [mporg@unn.edu.ng](mailto:mporg@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/multidisciplinary-psycho-oncology-research-group-mporg/>

**Phone number of the RG:** 08061364232

**Phone number of the coordinator:** 08061364232

**Base Faculty/Institute/Center of the RG:** Social Sciences

**Department of the Coordinator:** Psychology

### Headshot of the coordinator



## 75. Population, Environment and Development Research Group

**Main research focus and other areas of research interest of the RG:** Nexus between population, environment, and development.

**Title of most recent research project:** Mba C. L, Madu I. A, Ajaero C.K and AE Obeta(2021):Patterns of Rice Production and Yields in South Eastern Nigeria. Afr. J. Food Agric. Nutr. Dev.; 21(7): 18330-18348 <https://doi.org/10.18697/ajfand.102.20105>

**A maximum of seven (7) other current or completed research projects:**

- COVID-19 Pandemic and Small-Scale Industries in a Local Geographic Space of Nigeria: An Assessment of the Impact of Strategic Inter firm Alliance.
- Factors of migration of ECOWAS citizens into Nigeria: a principal component analysis approach.
- Determinants and Flow of Cross-Border Migration of Ecowas Citizens into Nigeria.
- Magnitudes and Diagnostics of Spatial Disparity in Urban - Rural Household Welfare in Nigeria.
- The Socio-economic effect of small-scale women business in broom production and marketing industry: A pan acea for for sustainable *development*”*Journal of enterprising Communities*.
- Nature and Determinants of Small and Medium Scale Enterprises Location factors in Enugu state, Nigeria.
- The role of subcontracting on innovation: an assessment of small and medium enterprises in Nigeria.

**Name of the Coordinator:** Prof Ignatius A. Madu

**UNN email address of the RG:** [ped.rg@unn.edu.ng](mailto:ped.rg@unn.edu.ng)

**UNN email address of the coordinator:** [ignatius.madu@unn.edu.ng](mailto:ignatius.madu@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/population-environment-development-research-group-pedrg/>

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**Phone number of the coordinator:** +234 8037321468

**Base Faculty/Institute/Center of the RG:** Social Sciences

**Department of the Coordinator:** Geography

**Headshot of the coordinator**



**Brief profiles of members**

**Ignatius A. Madu** is a Professor of Human Geography at University of Nigeria Nsukka with specialization in rural environment and sustainability. He was the pioneer Coordinator of Programme Centre for Environmental Management and Control UNEC. He was also a two-time head of Geography and once Dean of the Faculty of the Social Sciences of the



University. He currently leads the Population, Environment and Development Research Group of the University. He is a member of the consortium on the **European Commission (EC) sponsored GAPS project (Decentring the Study of Migrant Returns and Readmission Policies in Europe and Beyond" (Project nr. 101094341)**. As part of his community service, he has participated in numerous Federal Ministry of Environment technical panel review of development projects in Nigeria. He has supervised many Ph.D thesis and masters projects. Prof Madu has published extensively in both local and international journals and has participated in many international and national conferences.

Visit <http://www.unn.edu.ng/internals/staff/viewProfile/MzE2Mw--/5> for a comprehensive publication list.

Google Scholar Citation links:  
<https://scholar.google.com/citations?user=EAS5E5YAAAAJ>

Researchgate links :<https://www.researchgate.net/profile/Ignatius-Madu>

- **Thaddeus Chidi Nzeadibe** is Professor of Environmental Management & Sustainability in the Department of Geography, and a Senior Research Fellow at the Resource and Environmental Policy Research Centre (REPRC), University of Nigeria, Nsukka. His research has been funded by Nordic Africa Institute (NAI), Uppsala, International Foundation for Science (IFS), Stockholm, and the African Technology Policy Studies Network (ATPS), Nairobi, Kenya. His recent research has dealt with solid waste management during Covid-19 pandemic in Nigeria, and also the political economy of Covid-19 and informal urban governance in Africa. He is currently undertaking research projects funded by Environment for Development (EfD) Initiative, Gothenburg University, Sweden, Royal Academy of Engineering, UK, Swiss National Science Foundation and SOAS- ACE, UK. He served as External Reviewer for Global Waste Management Outlook (GWMO) (UNEP & ISWA 2015) and serves as Waste Management and Socioeconomics Expert in EIA Review Panels of the Federal Ministry of Environment. journal articles, OP-EDs and winning a highly competitive research grant on COVID-19. In February 2021, Prof. Nzeadibe was appointed an Inaugural Member and Senior Fellow of the Pan-African Scientific Research Council (PASRC).

Google scholar profile -<https://scholar.google.com/citations?user=Jfs1ne0AAAAJ>  
<https://africanscientists.africa/business-directory/nzeadibe/>

- **Ajaero, Chukwuedozie Kelechukwu** is a Professor of Population Geography and the Deputy Provost, College of Postgraduate Studies, University of Nigeria Nsukka (UNN). He was a Postdoctoral Fellow and Visiting Scholar with the Demography and Population Studies Programme of the University of the Witwatersrand, South Africa. Prof Ajaero is also a Senior Research Fellow at Resource and Environmental Policy Research Centre (REPRC) EfD-Nigeria. His areas of research include migration and displacements, public health and quality of life, and population-environment linkages.

#### Research Profiles:

Google scholar link: <https://scholar.google.com/citations?user=zc74xbMAAAAJ&hl=en>

LinkedIn link: <https://www.linkedin.com/in/ajaero-chukwuedozie-k-a9433529/>

African Scientists Directory link: <https://africanscientists.africa/?s=ajaero>

Research Gate link: <https://www.researchgate.net/profile/Chukwuedozie-Ajaero>

1. **Dr. Ifeoma C. Mba** is an accomplished economist with a wealth of knowledge in the field of monetary economics. She has earned numerous degrees and certifications, including a NCE in Economics/Mathematics, a BSc in Statistics and Economics with a 2:1, an MSc in Monetary Economics, and a PhD in Monetary Economics. Dr. Mba is also an expert in financial economics, stochastic processes, population studies, gender studies, and energy. As a Senior Lecturer in the Department of Economics at the esteemed University of Nigeria, Dr. Mba is highly respected for her exceptional teaching abilities and contributions to her field. Her extensive research has been published in reputable journals, further solidifying her reputation as a thought leader in economics. In addition to her academic work, Dr. Mba is a devoted mother and wife. With her impressive credentials and expertise in a range of subjects, Dr. Mba is a true inspiration to aspiring economists and scholars alike. Her contributions to the field of economics have been invaluable, and she continues to make an impact through her teaching, research, and leadership as the head of the Economics department at the University of Nigeria.

**Research Profiles:**

**Google**

**Scholar**

**Link:**

<https://scholar.google.com/citations?hl=en&user=6uQbmnYAAAAJ>

ResearchGate: <https://www.researchgate.net/profile/ifeoma-mba-2>

Academia: <https://unn-ng.academia.edu/IFEOMACHRISTYMBA>

2. **Ossai, Onyinyechi Gift** is a Lecturer 1 and PhD candidate at the Department of Geography, University of Nigeria Nsukka (UNN). She received a travel scholarship from MasterCard to attend the 42nd Congress of the Institute of Sociology at the University of Witwatersrand, South Africa in 2018. Additionally, she received a prize for the best paper presented at the PIVOT African Workshop, which was funded by the Royal Academy of Engineering as part of the Frontiers Program in 2021. She graduated first in her class in 2011 and 2017, BSc and MSc respectively as an honors student. Her interests encompass urban quality of life, urban inclusion, sustainable development, and climate change.

UNN website: <https://staffprofile.unn.edu.ng/profile/1358>

Google Scholar Citation link: <https://scholar.google.com/citations?user=kCW2-9IAAAAJ&hl=en>

Research gate link: <https://www.researchgate.net/profile/Onyinyechi-Ossai/research>

3. **Ngozi Louis Uzomah** is a PhD researcher in the Department of Geography of the University of Nigeria, Nsukka. He has a keen interest in cross-border activities. His main research areas include migration, borders, security, refugees and IDPs. He has researched on migration in the ECOWAS region, Boko Haram/ISWAP insurgency in the Lake Chad Basin, regional integration in Africa, and geopolitics of African border management in relation to EU border and migration externalization. His doctoral research project is on security factors influencing the return migration of Cameroonian refugees in Nigeria. Currently at the University of Nigeria, he is taking part in an EU Horizon project on return migration and readmission policies, abbreviated as GAPs, which comprises a consortium of 17 universities/organizations in Europe, America, Africa and the Greater Middle East.

Google citation link:  
<https://scholar.google.co.uk/citations?user=ngLno1gAAAAJ&hl=en>  
Researchgate link: <https://www.researchgate.net/profile/Ngozi-Uzomah>

**Ten key publications of the RG from 2019 till date.**

Uzomah, N. L. and amp; Abdullahi, M. (2023). AfCFTA and challenges of borderlands in the ECOWAS region In S. K. Okunade & O. Ogunnubi (eds.), ECOWAS Protocol on Free Movement and the AfCFTA in West Africa: Costs, Benefits and Challenges. Springer Nature. Pub date: June 2023.

Jonathan E. Ogbuabor, Ezebuilo R. Ukwueze, Ifeoma C. Mba, Obed I. Ojonta, Anthony Orji (2023): The asymmetric impact of economic policy uncertainty on global retail energy markets: Are the markets responding to the fear of the unknown? Applied Energy 334 (2023) 120671

Yemi Adewoyin, Chukwuedozie K. Ajaero and Clifford O. Odimegwu (2022): Contexts, beliefs and health behaviour: Are individuals who engage in risky sexual behaviour likely to wear facemasks against COVID-19? Journal of Public Health in Africa 2022; volume 13:2032

Mba C. L, Madu I. A, Ajaero C.K and A.E Obetta (2021):Patterns of Rice Production and Yields in South Eastern Nigeria. Afr. J. Food Agric. Nutr. Dev.; 21(7): 18330-18348

Yemi Adewoyin, Ijeoma Gladys Nwosu, Onyinyechi Gift Ossai, and Juliana Onuh (2022): Rural-Urban Differentials in Levels and Correlates of Financial Inclusion Among Nigerian Women Aged 18 to 49 Journal of Population and Social Studies (JPSS) pp 448-462

Cletus Famous Nwankwo, Onyinyechi G. Ossai, Romanus U. Ayadiuno & Christopher C. Ikeogu (2021): Spatial dimension of climate change vulnerability and urbanization relationship in Nigeria, International Journal of Urban Sciences, DOI: 10.1080/12265934.2021.1956365 pp 1-22

Uzomah, N. L. & Madu, I. A. (2020). Factors of migration of ECOWAS citizens into Nigeria: a principal component analysis approach. International Journal of Migration and Border Studies, 6 (3): 234 – 257

Onyishi, C.J., Ejike-Alieji, A.U.P., Ajaero, C.K., Mbaegbu,C.C., Ezeibe, C.C., Onyebueke , V.O., Mbah, P.O and Nzeadibe, T.C. (2020).Covid-19 pandemic and informal urban governance in Africa: A political economy perspective. Journal of Asian and African Studies. DOI: 10.1177/0021909620960163

Nzeadibe, T.C and Ejike-Alieji, A.U.P. (2020). Solid waste management during Covid-19 pandemic: policy gaps and prospects for inclusive waste governance in Nigeria. \*Local Environment: the International Journal of Justice and Sustainability. DOI: 10.1080/13549839.2020.1782357.

Ifeoma Christy Mba, Emmanuel Ikechukwu Mba, Winnie Ogonna Arazu, Chinasa E. Urama, Chioma Henrietta Machebe, Chikodili Eze (2019). Application of the Stochastic Markov Model in Predicting the Volume of Oil Spill in Nigeria: A Case of the Niger-delta Region. International Journal of Energy Economics and Policy, 9(4), 110-114.

## 76. Public Sector Reforms Research Group

**Main research focus and other areas of research interest of the RG** – Engender pragmatic Reforms through research in the civil services at all the tiers and level of government including public enterprises and agencies. Also human resources management, human capital development, performance management, programme management, productivity and service delivery.

**Title of most recent research project.** National Social Investment Programme (N-SIP), Vulnerable Populations and Sustainable Development Goals (SDGS) in Enugu State, Nigeria: Tracing a Nexus

### **Other current or completed research projects**

- Tackling the Pains of Corona Virus Lockdown through Palliatives in Nigeria: Addressing the Gaps and Critical Strategic Issues
- Probing the Existence, Credibility and Implementation of Occupational Health and Safety Practices in Paramilitary Organisations in Nigeria
- Implementation of International Public Sector Accounting Standards and Transparency & Accountability in the Public Sector
- Assessment of Capacity Gaps in the Nigeria Public Sector: A Study of Enugu State Civil Service

**Name of the Coordinator** – Professor Fab Obeta Onah

**UNN email address of the coordinator**-- [fab.onah@unn.edu.ng](mailto:fab.onah@unn.edu.ng)

**Phone number of the RG** – 08037791088

**Phone number of the coordinator:** -- 08037791088

**UNN email address of the RG:** [psr.researchgroup@unn.edu.ng](mailto:psr.researchgroup@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/public-sector-reforms-research-group/>

**Base Faculty/Institute/Center of the RG** – Faculty of the Social Sciences

**Department of the Coordinator** – Public Administration and Local Government

Headshot of the coordinator (not mandatory)

**List and brief profiles of members (one paragraph per member) with their UNN website to their detailed CVs (hyperlinks are OK)**

Dr. Edwin Izueke; Dr. Felicia Osondu Okwueze; Dr. Chris Onyemaechi Ugwuibe  
Dr. Francisca N. Onah; Dr. Okwudili Nwosu; Mrs. Chigozie Freda Ugwuanyi

### **10 key publications of the RG from 2019 till date**

- Onah Francisca. N., Anikwe S. O. and Onah, F.O. (2021) “National Social Investment Programme (N-SIP), Vulnerable Populations and Sustainable Development Goals (SDGS) in Enugu State, Nigeria: Tracing a Nexus”. *Journal of Psychosocial Rehabilitation*, Vol. 25, Issue 03, 2021 ISSN: 1475-719. Pp 115-124.
- Onah Francisca N., Ugwuibe Christopher O. and Onah F.O. (2021) “Tackling the Pains of Corona Virus Lockdown through Palliatives in Nigeria: Addressing the Gaps and Critical Strategic Issues”. *International Journal of Psychosocial Rehabilitation*, Vol. 25, Issues 03, 2021 ISSN: 1475-7192 Pp 261-287.

- Onah Fab O., S. O. Anikwe, F. N. Onah, C. U. Agalamanyi & C. O. Ugwuibe. (2020) "Probing the Existence, Credibility and Implementation of Occupational Health and Safety Practices in Paramilitary Organizations in Nigeria". *Journal of Management and Strategy*. Vol. 11. No. 3, p. 28-42.
- Interagency Collaboration in Road Safety Management in Nigeria (In Press)

## 77. Waste & Resource Management Research Group (WARMREG)

**Main research focus:** Focus of WARMREG is waste and resource management, including policy, political economy, livelihood vulnerability and sustainability of urban waste and resource governance

**Title of most recent research project:** Knowledge, Attitude and Behaviour of Households to Sustainable Municipal Solid Waste Management in Abakaliki Metropolis, Ebonyi State

**Other current or completed research projects:**

- Municipal solid waste management in an African university campus during COVID-19 pandemic: a justice and sustainability perspective
- Urban political ecology of Solid waste management in Akure, Ondo State
- COVID-19 pandemic and informal urban governance in Africa: A political economy perspective
- Solid waste management during Covid-19 pandemic: policy gaps and prospects for inclusive waste governance in Nigeria
- Value reclamation from informal municipal solid waste Management: Green neoliberalism and inclusive development in the Lagos, Nigeria
- Children, waste and well-being: A critical analysis of socio-environmental justice in Almajirai solid waste management in Northern Nigerian Cities
- Waste scavenging and recycling in Aba urban area of Nigeria

**Name of the Coordinator:** Prof Chidi Nzeadibe

**Email of Coordinator:** [chidi.nzeadibe@unn.edu.ng](mailto:chidi.nzeadibe@unn.edu.ng)

**Tel:** +234 803 772 7927

**UNN email address of the RG:** [warm.rg@unn.edu.ng](mailto:warm.rg@unn.edu.ng)

**Current webpage of the RG:** [unn.edu.ng/waste-resource-management-research-group-warmreg/](http://unn.edu.ng/waste-resource-management-research-group-warmreg/)

**Base Faculty:** Faculty of the Social Sciences

**Department of the Coordinator:** Geography



- **Chidi Nzeadibe** is Professor of Environmental Management & Sustainability, Head, Department of Geography, and a Senior Research Fellow at the Resource and

Environmental Policy Research Centre (REPRC), University of Nigeria, Nsukka. His areas of teaching and research expertise include Sustainable Environmental Management, Environmental and Social Impact Assessment, Climate Change Awareness and Adaptation, vulnerability to flood risk, Political Ecology, Solid Waste Management in urban governance, Waste picking, gender analysis and Informal sector recycling

[Profile | UNN Staff profile](#)

Google Scholar Citation

<https://scholar.google.com/citations?user=Jfs1ne0AAAAJ&hl=en>

Researchgate Profile

[https://www.researchgate.net/profile/Chidi\\_Nzeadibe](https://www.researchgate.net/profile/Chidi_Nzeadibe)

- **Chukwuedozie Ajaero** is a Professor of Population Geography and the Deputy Provost of the College of Postgraduate Studies, University of Nigeria Nsukka (UNN). He was a Postdoctoral Fellow and Visiting Scholar with the Demography and Population Studies Programme of the University of the Witwatersrand, South Africa. Prof Ajaero is also a Senior Research Fellow at Resource and Environmental Policy Research Centre (REPRC) EfD-Nigeria. His areas of research include migration and displacements, public health and quality of life, and population-environment linkages.

[Profile | UNN Staff profile](#)

Google

scholar

link:

<https://scholar.google.com/citations?user=zc74xbMAAAJ&hl=en>

Research Gate link: [https://www.researchgate.net/profile/Chukwuedozie-](https://www.researchgate.net/profile/Chukwuedozie-Ajaero)

[Ajaero](#)

- **Adeyemi Adewoyin** is a lecturer in the Department of Geography, University of Nigeria, Nsukka. He was URC Postdoctoral Fellow at University of Witwatersrand, South Africa. He holds a top-of-the class B.Sc. degree in Geography and Planning Science from the then Ondo State University, Ado-Ekiti, two Master's degree in Political Geography and Geographic Information Systems from the University of Ibadan, a third Master's degree in Business Administration and a Ph.D. in Urban and Regional Planning, both from the Ladoke Akintola University of Technology, Ogbomoso, Nigeria. His research interests are in Health Geography and Regional Planning, Political Geography and GIS, and Urban and Environmental Management.

[Profile | UNN Staff profile](#)

[Yemi Adewoyin - Google Scholar](#)

[Yemi Adewoyin \(researchgate.net\)](#)

- **Ijeoma Dorathy Ajaero** is a senior lecturer in the Department of Mass Communication, University of Nigeria, Nsukka. She obtained a Ph.D in Mass Communication and her areas of research interest are Environmental Communication, Gender and Health studies, Development Communication.

[Profile | UNN Staff profile](#)

[Ijeoma Dorathy Ajaero - Google Scholar](#)

[Ijeoma Ajaero \(researchgate.net\)](#)

- **Godson Chinonyerem Asuoha** is a lecturer in the Department of Geography, University of Nigeria, Nsukka. He obtained a Ph.D in Biogeography from the

Department of Geography, University of Nigeria, Nsukka and his areas of research interest include biogeography, biodiversity conservation and climate change.

[Profile | UNN Staff profile](#)

[Godson Chinonyerem Asuoha - Google Scholar](#)

[Godson Chinonyerem Asuoha \(researchgate.net\)](#)

- **Eberechukwu Jennifer Ezeah** is a lecturer in the Department of Geography, University of Nigeria, Nsukka. She is currently a Ph.D student specializing in population Geography.

[Profile | UNN Staff profile](#)

[Eberechukwu J. Eze - Google Scholar](#)

[Eberechukwu Eze \(researchgate.net\)](#)

- **Onyinyechi Gift Ossai** is a lecturer in the Department of Geography, University of Nigeria, Nsukka. She is currently a Ph.D student specializing in Urban Geography. She has research interests in Urban development, urban sociology, urban inclusion (spatial, social and economic inclusion), urban sustainability and Urban agriculture.

[Onyinyechi Ossai - Google Scholar](#)

[Onyinyechi Gift Ossai \(researchgate.net\)](#)

- **Cletus Famous Nwankwo** is a Lecturer in the Department of Geography at the University of Nigeria, Nsukka (UNN) and studies for a PhD at the University of Leicester, UK. He is an Associate Fellow of the Royal Geographical Society (with IBG) in the UK and member of the International Geographical Union Commission on Geography of Governance. He is a post-human enthusiast interested in conflicts.

[Profile | UNN Staff profile](#)

[Cletus Famous Nwankwo \(researchgate.net\)](#)

- **Adaeze Ejike-Alieji** is a lecture in the Department of Geography, Alex Ekwueme Federal University Ndufu-Alike, Ebonyi State and a Ph.D student of the Department of Geography, University of Nigeria, Nsukka. She is specializing Environmental Management.

[Adaeze U.P Ejike-Alieji - Google Scholar](#)

[Adaeze U.P Ejike-Alieji \(researchgate.net\)](#)

- Helen Nneka Okpala, Chartered Librarian (MLS; CLN; SAP), is a Senior Librarian at the Nnamdi Azikiwe Library, University of Nigeria, Nsukka. She obtained an MLS, Software in Libraries and is currently a Ph.D Student of the Department of Library and information Science, University of Nigeria, Nsukka.

[Helen Nneka Okpala's Profile - Nnamdi Azikiwe Library \(unn.edu.ng\)](#)

[Helen Nneka Okpala \(ORCID:org/0000-0002-8552-4721\) - Google Scholar](#)

[Helen Nneka Eke-Okpala \(researchgate.net\)](#)

### 10 key publications of the RG from 2019 till date

- **Ajaero, C, K., Ebimgbo, S., Ezeibe, C., Ugwu, C., Nzeadibe, C., Osabede, N,**(2023). Life Satisfaction in South Africa: The Influence of Inter-Provincial Migration Status, *Psychological Studies* <https://doi.org/10.1007/s12646-022-00697-0>

- **Adewoyin, Y., Ajaero, C.K.** and Odimegwu, C.O. (2022). Contexts, Beliefs and Health Behaviour: Are Individuals who Engage in Risky Sexual Behaviour likely to Wear Facemasks against Covid-19? *Journal of Public Health in Africa* 13, 2032
- Lenshie, N.E., Ojeh, V.N., Oruonye, E.D., Ezeibe, **C., Ajaero, C., Nzeadibe, T.C.**, Udeogu, C. & Osadebe, N. (2022): Geopolitics of climate change-induced conflict and population displacement in West Africa, *Local Environment*, DOI: 10.1080/13549839.2022.2040461
- Anazonwu, N.P., Nnamani, K.E., Osadebe, N., Anichebe, O., Ezeibe, C.C., Mbah, P.O and **Nzeadibe, T.C.** (2022). State Actors, Human Rights Violations and Informal Livelihoods during the Covid-19 Pandemic in Nigeria. *Territory, Politics, Governance*. DOI: [10.1080/21622671.2021.1976262](https://doi.org/10.1080/21622671.2021.1976262)
- Onyishi, C.J., **Ejike-Alieji, A.U.P., Ajaero, C.K.**, Mbaegbu, C.C., Ezeibe, C.C., Onyebueke, V.O., Mbah, P.O and **Nzeadibe, T.C.** (2021). COVID-19 pandemic and informal urban governance in Africa: A political economy perspective. *Journal of Asian and African Studies* 56(6) 1226–1250. DOI: 10.1177/0021909620960163
- Makinde, O.A., Akinyemi, J., Ntoimo, L.F.C., **Ajaero, C.K.**, Ononokpono, D., Banda, Y., **Adewoyin, Y.**, Olamijuwon, E., Reba, P., Ugwu, H. and Odimegwu, C.O. (2021). Risk Assessment for Covid-19 Transmission at Household Level in Sub-Saharan Africa – Evidence from DHS. *Genus*, 2021, 77(24), <https://doi.org/10.1186/s41118-021-00130-w>
- **Nzeadibe, T.C** and **Ejike-Alieji, A.U.P.**(2020). Solid waste management during Covid-19 pandemic: policy gaps and prospects for inclusive waste governance in Nigeria. *Local Environment*: DOI: 10.1080/13549839.2020.1782357. *Journal of Asian and African Studies*, DOI: 10.1177/0021909620907934
- CC Ezeibe, C Ilo, EN Ezeibe, CN Oguonu, NA Nwankwo, **CK Ajaero**, Osadebe, N.O (2020). Political distrust and the spread of COVID-19 in Nigeria. *Global Public Health* 15 (12), 1753-1766
- C Ezeibe, C Oguonu, **CK Ajaero**, N Osadebe, H Agbo... From Vulnerability to Sustainability: Implementation of Free Education Programmes and Reversal of Child Trafficking in Nigeria - *Journal of Human Trafficking*, Pages 104-118
- Mbah, P.O., Ezirim, G.E., Ezeibe, C.C, Onyishi, C.J. and **Nzeadibe, T.C.** (2019). Value reclamation from informal municipal solid waste Management: Green neoliberalism and inclusive development in the Lagos, Nigeria. *Local Environment* 24 (10), 949-967.



## FACULTY OF VETERINARY MEDICINE

### 78. Veterinary Antimicrobial Resistance Research Group (Vet-ARRG)

**Main research focus and other areas of research interest of the RG:** Basic research involving (i) monitoring antimicrobial resistance in pathogenic, zoonotic and commensal bacteria/fungi/protozoa from food animals and animal products, companion animals, wildlife and the environment, (ii) elucidating possible mechanisms of antimicrobial resistance, (iii) identifying key factors promoting the development and spread of AMR in livestock and poultry in Nigeria.

**Other areas of research interest:** Search for new/natural antimicrobial products for drug-resistant microbial agents

**Title of most recent research project:** Prevalence and antimicrobial resistance profile of *Escherichia coli* strains in slaughtered food animals in Southeast Nigeria

#### Other current or completed research projects

- Molecular characterization of extended spectrum cephalosporin resistant *Escherichia coli* isolated from livestock and in-contact humans in Southeast Nigeria.
- Antibiogram of Cefotaxime-Resistant Enterobacteriaceae Isolated from Food Animals and In-Contact Humans at Abattoirs, Animal Market, and Farms in Southeast, Nigeria
- Molecular epidemiology of thermophilic *Campylobacter* species infections in slaughter cattle, poultry, and humans in Enugu State, Nigeria
- Aerobic bacteria from ceiling bats and humans co-cohabiting same buildings in some states in Southeast Nigeria: Bacterial diversity and antimicrobial resistance attributes.
- Investigation of edible African herbs for brucellicidal and mycobacterial potentials
- Antimicrobial agents from African medicinal plants

**Name of the Coordinator:** Professor CHAH Kennedy Foinkfu

**UNN email address of the RG:** [varrg@unn.edu.ng](mailto:varrg@unn.edu.ng)

**UNN email address of the coordinator:** [Kennedy.chah@unn.edu.ng](mailto:Kennedy.chah@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/veterinary-antimicrobial-resistance-research-group-vet-arrg/>

**Phone number of the RG:** +2348119401610

**Phone number of the coordinator:** +2348060926059

**Base Faculty/Institute/Center of the RG:** Faculty of Veterinary Medicine

**Department of the Coordinator:** Veterinary Pathology and Microbiology

#### Brief profiles of members

Kennedy F. CHAH is a dedicated veterinarian with several years of teaching and research experience in Veterinary Microbiology. He is a Professor of Veterinary Microbiology and a Fellow of the College of Veterinary Surgeons, Nigeria (FCVSN). He is an enthusiastic, self-motivated and result-oriented academic/researcher with passion for excellence. His research interests and skills are geared towards reduction of the burden of microbial diseases, especially through studies on the detection, phenotypic and molecular

characterization of microbial agents of veterinary and zoonotic importance at the human-livestock-wildlife-environment interfaces, with particular interest on antimicrobial resistance. He has successfully supervised several Ph.D candidates in the Faculty of Veterinary Medicine, University of Nigeria, Nsukka. He has served as external examiner at both undergraduate and postgraduate levels in various Veterinary schools in Nigeria. He has published over 90 articles in reputable journals.

Google Scholar Citation link: [https://scholar.google.com/citations?user=t7\\_N-kMAAAAJ&hl=en](https://scholar.google.com/citations?user=t7_N-kMAAAAJ&hl=en)

Researchgate link: <https://www.researchgate.net/profile/Kennedy-Chah>

◆ Solomon is a highly qualified and experienced animal health and reproduction lecturer at Ebonyi State University, Abakaliki, Nigeria. He obtained his Doctor of Veterinary Medicine degree from Usmanu Danfodiyo University, Sokoto in 2008 and went on to earn his M.Sc. and Ph.D. degrees in Veterinary Public Health from the prestigious University of Nigeria, Nsukka. With his exceptional academic credentials and passion for One Health, Solomon was awarded a Commonwealth Ph.D. Split-Site Scholarship at the renowned Royal Veterinary College in London in 2018. There, he focused on studying the molecular epidemiology of extended-spectrum  $\beta$ -lactamase producing Enterobacteriaceae in livestock and in-contact humans in Southeast Nigeria. Through his ground-breaking research, he aims to better understand the complex interplay between antimicrobial resistance genes in Enterobacteriaceae and zoonotic diseases, in order to promote One Health and combat the growing threat of antimicrobial resistance.

ResearchGate link: <https://www.researchgate.net/profile/Solomon-Olorunleke>

Google Scholar citation link: <https://scholar.google.com/citations?hl=en&user=HzgFGmEAAAAJ>

◆ Akwoba Joseph Ogugua holds a DVM from the prestigious University of Nigeria Nsukka; Masters and Ph. D degrees from University of Ibadan. He practised Veterinary medicine in Lagos for two decades. Currently, he is a Faculty member at the level of senior lecturer at the Department of Veterinary Public Health and Preventive Medicine University of Nigeria, Nsukka. He has published widely in peer reviewed local and international journals. He has attended and presented scientific papers in national and international conferences. He is a fellow of the College of Veterinary Surgeons of Nigeria. His research interest is on infectious diseases and finding solution to drug resistance in developing countries. Researchgate: <https://www.researchgate.net/profile/>, Google

scholar:IP address:

URL: [https://scholar.google.com/scholar?hl=en&as\\_sdt=0%2C5&q=Ogugua+Akwoba+Joseph+&btnG=URL](https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=Ogugua+Akwoba+Joseph+&btnG=URL): [https://scholar.google.com/scholar?hl=en&as\\_sdt=0%2C5&q=Ogugua+Akwoba+Joseph+&btnG=](https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=Ogugua+Akwoba+Joseph+&btnG=)

◆ Ijeoma Chekwube Chukwudi, HND, DVM, MSc, PhD, FCVSN. Ijeoma Chekwube Chukwudi is a Senior Lecturer in the Department of Veterinary Medicine, whose area of specialization is Ruminant Medicine. Her research interests are viral, bacterial and parasitic diseases of ruminants, Trypanosomosis, Protozoal diseases, Trypanocidal resistance and Molecular virology. Ijeoma Chekwube Chukwudi's UNN website url: <https://staffprofile.unn.edu.ng/profile/873> Ijeoma Chekwube Chukwudi's Google Scholar citation link:

### 10 key publications of the RG from 2019 till date

- Madubuike U. Anyanwu et al (2022): Sorbitol non-fermenting *Escherichia coli* and *E. coli* O157: prevalence and antimicrobial resistance profile of strains in slaughtered food animals in Southeast Nigeria. *Access Microbiology* 2022;4:000433.
- Solomon O. Olorunleke et al (2022). Molecular characterization of extended spectrum cephalosporin resistant *Escherichia coli* isolated from livestock and in-contact humans in Southeast Nigeria. *Front. Microbiol.* 13:937968.
- Ijeoma Chekwube Chukwudi et al (2021): Peste des petits ruminants in Nigeria: identification and variations of lineage II and lineage IV in sheep and goats. *Veterinaria Italiana* 2021, 57 (3), 189-199. doi: 10.12834/VetIt.2390.14842.1
- Olorunleke, S.O., Okorie-Kanu, O.J., Nwanta, J.A., and Chah, K.F. (2021). Point Prevalence and Antibigram of Cefotaxime-Resistant Enterobacteriaceae Isolated from Food Animals and In-Contact Humans at Abattoirs, Animal Market, and Farms in Southeast, Nigeria. *Nig. Vet. J.*, Vol 42 (1): 36 – 59.
- Mgbeahuruike, A.C., K. Aliyoo, M. Karlsson and K.F. Chah (2020): Identification, antifungal susceptibility and phylogenetic comparison of fungi in poultry environment in Nigeria. *Int. J. Poult. Sci.*, 19: 548-556
- Anyanwu M.U et al (2021): Prevalence and Traits of Mobile Colistin Resistance Gene Harboursing Isolates from Different Ecosystems in Africa, *BioMed Research International* Volume 2021, Article ID 6630379, 20 pages <https://doi.org/10.1155/2021/6630379>
- Anyanwu M.U., R. Marrollo, M. Paolucci, F. Brovarone, P. Nardini, K.F. Chah, S.V.O. Shoyinka, E. Carretto (2021): Isolation and characterisation of colistin-resistant Enterobacterales from chickens in Southeast Nigeria, *Journal of Global Antimicrobial Resistance* 26: 93-100.
- Lynda, O. Obodoechi et al (2020): Antimicrobial resistance in *Escherichia coli* isolates from frugivorous (*Eidolon helvum*) and insectivorous (*Nycteris hispida*) bats in Southeast Nigeria, with detection of CTX-M-15 producing isolates. *Comparative Immunology, Microbiology and Infectious Diseases* 75 (2021). <https://doi.org/10.1016/j.cimid.2021.101613>
- Okorie-Kanu O.J. et al (2020) Molecular epidemiology, genetic diversity and antimicrobial resistance of *Staphylococcus aureus* isolated from chicken and pig carcasses, and carcass handlers. *PLoS ONE* 15(5): e0232913. <https://doi.org/10.1371/journal.pone.0232913>
- Aneke, CI, CC Nwogwugwu, ICI Ugochukwu, KF Chah (2019): Antifungal activity of ethanolic extracts of *Ocimum gratissimum* and *Vernonia amygdalina* leaves against dermatomycotic agents isolated from domestic animals in South Eastern Nigeria. *Comparative Clinical Pathology*, 2019

## 79. Veterinary Clinical Research Group (VCRG)

**Main Research Focus of the RG:** Animal Diseases and Health Research, Drug Development and Repositioning, Trypanosomosis Research, Epizootiology of Animal Diseases, and Safety of Animal Products.

**Title of most recent research projects:**

- Trypanosomosis Research: Pathophysiology of trypanotolerance in domestic animals and evaluation of combination chemotherapies for drug-resistant trypanosomes.
- Drug development: Bioassay guided isolation of hepatoprotective and hepatotherapeutic agents from indigenous herbs and plants.
- Comparative evaluation of the occurrence of kidney damage in domestic animals, and search for specific and differential markers of kidney damage in the different domestic animals.
- Development of therapies for benign prostatic hyperplasia from crude extracts of indigenous mushrooms.

**Name of the Coordinator of the Research Group:** Professor John I. Ihedioha.

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### Ten Key Publications of the Research Group from 2020 till date:

- Anyogu DC, Shoyinka SVO and Ihedioha JI (2020). Some biochemical perturbations may modify the understanding of trypanotolerance in the West African Dwarf sheep infected with *Trypanosoma brucei brucei* and *Trypanosoma congolense*. *Clinical Pathology*, 13: 1 – 6. <https://journals.sagepub.com/doi/full/10.1177/2632010X20938389>
- Ihedioha TE, Nnadozie AE, Asuzu IU, Anaga AO and Ihedioha JI (2020). Effects of methanolic leaf extract of *Pterocarpus santalinoides* on the recovery from gentamicin-

induced nephrotoxicity in albino rats. *Comparative Clinical Pathology*, 29: 1209 – 1217. <https://doi.org/10.1007/s00580-020-03173-1>

- Ihedioha JI, Anyogu DC and Ogbonna ME (2020). The effects of silymarin on acetaminophen induced acute hepatic and renal toxicities in domestic pigeons (*Columba livia*). *Journal of Avian Medicine and Surgery*, 34(4): 348 – 357. <https://doi.org/10.1647/1082-6742-34.4.348>
- Ihedioha TE, Asuzu IU, Anaga AO, Ihedioha JI (2021). Comparative evaluation of the hepatoprotective activity of methanol leaf extracts of *Pterocarpus santalinoides* DC obtained by cold maceration and Soxhlet extraction techniques. *Thai Journal of Pharmaceutical Sciences*, 45(6): 442 – 450. <http://www.tjps.pharm.chula.ac.th/ojs/index.php/tjps/article/view/614/334>
- Ezema AS, Ihedioha TE, Num-Adom SM, Ihedioha JI (2022). Alterations in serum activity of hepatocellular enzymes, levels of liver function markers, and liver histology of dogs given high (nephrotoxic) doses of gentamicin. *Comparative Clinical Pathology* 31:115 – 122. <https://doi.org/10.1007/s00580-021-03314-0>
- Okafor SC, Ogugua AJ, Ihedioha JI, Onunkwo JI, Ezenduka EV, Okafor UC, Ezema WS (2022). Seroprevalence, hematological and biochemical alterations in Brucella-seropositive Mutura cattle in Nigeria. *Veterinary Research Communications*, 10.1007/s11259-021-09879-z. <https://doi.org/10.1007/s11259-021-09879-z>
- Anyogu DC, Shoyinka SVO, Ihedioha JI. (2022). Brain and pituitary-adrenal lesions of *Trypanosoma brucei brucei* and *Trypanosoma congolense* infections in the West African Dwarf rams: Is trypanotolerance overrated? *Veterinary Pathology*, 59(5): 773 – 781. doi:[10.1177/03009858221100432](https://doi.org/10.1177/03009858221100432)
- Onoja RI, Ihedioha JI, Shoyinka SVO, Ezema AS, Emejuro NT, Mgbeahuruike AC, Emesiani BI, Obidah W, Clinton L (2023). Inhibitory effects of *Calocybe indica* macrofungi on experimental benign prostatic hyperplasia in rats. *Iranian Journal of Basic Medical Science*, 26 (1): 121 – 127. <https://civilica.com/doc/1574127>
- Anyogu DC, Shoyinka SVO, Ihedioha JI (2023). Infection of West African dwarf rams with *Trypanosoma brucei brucei* and *Trypanosoma congolense* significantly alter serum electrolytes, redox balance, sperm parameters, and gonadal morphology. *Veterinary Research Communications*, 47(1): 17 – 27. <https://doi.org/10.1007/s11259-022-09921-8>
- Ihedioha TE, Asuzu IU, Anaga AO, Ihedioha JI, Nnadi CO (2023). Bioassay guided fractionation, isolation and characterization of hepatotherapeutic 1, 3-di-ortho-galloyl quinic acid from the methanol extract of the leaves of *Pterocarpus santalinoides*. *Journal of Ethnopharmacology*, 301: 115864. <https://doi.org/10.1016/j.jep.2022.115864>

## FACULTY OF VOCATIONAL AND TECHNICAL EDUCATION

### 80. Artificial Intelligence & TechTeach Research group

**Main Research Focus** and other areas of research interest of the **RG**:

Forensic and cyber security

Robotics Education and software development

Internet of Things

Machine Learning

Natural Language processing

Data Science

Technology Enhanced learning and teacher development

**Title of most recent research project:**

- Adaptive learning Environment with Automated Grading and feedback system.
- Forecasting framework based on machine learning: Application of non-linear estimation techniques for forecasting learning outcome.
- Mobile based micro-learning on student.

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## 10 publications

- Onah, B.I., Bakare, J., Eze, B.N. & Uzoegwu, C.R. (2018). Assessment of Computer Robotics Programming Needs of Computer Education and Electrical/Electronic Technology Students for Improving Academic Performance in Universities in South- Eastern Nigeria. *International Journal of Applied Engineering Research*, 13(24), 16739 – 16746.
- Eze, B.N., Onah, B.I., Ezenma, B.C., Chiamogu, C.C., Chilaka, A.E., Uzoegwu, C.R. & Asogwa, A.N. (2020). Evaluation of a Developed Intelligent Tutor System for Learning Robotic Programming Course in Tertiary Institutions South-East, Nigeria. *Universal Journal of Educational Research*, 8(12), 7197 – 7204.
- Ezenma, C.B., Onah, B.I., Eze, B.N., Onyemachi, C.O. and Onyedimara, J.P.A. (2020). Evaluation of Software and Architectural Design Requirement Specifications for Developing an Intelligent Tutor System for Learning Computer Networking in Universities in Nigeria. *Universal Journal of Educational Research*, 8(10): 4634- 4641.
- Mgboji, C.C., Uzoegwu, C.R. & Onah, B.I. (2020). Corruption in Tertiary Institutions: Redeeming the Future. *Nigerian Journal of Curriculum Studies*, 27(1), 114-127.
- Onah, B.I., Uzoegwu, C.R. & Mgboji, C.C. (2020). Influence of Academic Dishonesty among Computer Education Lectures and Students in Southeast Universities. *Nigerian Journal of Curriculum Studies*, 27(3), 192-206.
- Onah, I. B., Uzoegwu, C. R., Ezenma, C. B., Okeke, P., Eze, B. N. (2022). Impact of Web- Based Learning Tools in Instructional Delivery of Computer Programming in Universities in Developing Countries. *Universal Journal of Educational Research*, 10(7), 479 – 487. DOI: 10.13189/ujer.2022.100706.
- Uzoegwu, C.R., Mgboji, C.C. & Onah, B.I. (2022). Inclusion of Internet of Things in Curriculum Delivery as a Roadmap to the End of Insurgency in Tertiary Education in Nigeria: A Case of Bokoharam and Herdsmen. *Nigerian Journal of Curriculum Studies*, 29(1), 188-199.
- Mgboji, C.C., Uzoegwu, C.R., Eze, B.N. & Onah, B.I. (2022). Effect of Multimedia in Teaching and Learning of Word Processing among Computer Education Students in South-Eastern Universities, Nigeria. *Journal of Curriculum and Instruction*, 13(2), 48-56.

## 81. Entrepreneurial Computing Skills Development Research Group (ECSDRG)

### Main research focus and other areas of research interest of the RG

- Identifying viable entrepreneurial sectors needing computing skills.
- Fashioning out effective methods of translating computing knowledge into practical skills.
- Developing a pool of computing skill sets backed up with corresponding entrepreneurial know-how and drive to grow small to medium scale enterprises.
- Developing students/youths that can grow startup computing companies with little assistance.
- Assist in the growth and nurturing of University of Nigeria computing enterprises.

**Title of most recent research project:** Effect of Arduino Project-based Arduino Robot Application on Students' Achievement, Computational Thinking and Task Persistence in Robotics Programming

### Other current or completed research projects:

- Development of an Information Technology Green Programme for integration into the Computer and Robotics Education Curriculum
- Development of a Flipped Learning Model for Teaching Data Processing
- Development of a learning Tutor for educational robotic arm movements.
- Development of Learning Management System for teaching Data Processing

**Name of the Coordinator:** Prof Nnenna Ekpereka Ibezim

**UNN email address of the RG:** [ecsdrg@unn.edu.ng](mailto:ecsdrg@unn.edu.ng)

**UNN email address of the coordinator:** [nnenna.ibezi@unn.edu.ng](mailto:nnenna.ibezi@unn.edu.ng)

**Current webpage of the RG:** [ecsdrg.unn.edu.ng](http://ecsdrg.unn.edu.ng)

**Phone number of the RG:** +2348063279753

**Phone number of the coordinator:** +2348063279753

**Base Faculty/Institute/Center of the RG:** Faculty of Vocational and Technical Education

**Department of the Coordinator:** Department of Computer & Robotics Education

**Headshot of the coordinator:**



### List and brief profiles of members:

- Nnenna Ekpereka Ibezim is a Professor of Computer & Robotics Education and the immediate past Head, Department of Computer & Robotics, Education, University of Nigeria, Nsukka (UNN). She is also a past Associate Dean of the Faculty of Vocational and Technical Education, UNN. Nnenna is equally the Assistant Co-ordinator and the Skills Training Programmes Facilitator at the University of Nigeria, Nsukka, UNEVOC Centre. She is involved in designing and conducting training/retraining programmes in different areas of TVET for youths, retirees, women and disadvantaged groups for empowerment and poverty reduction. Prof Ibezim is the Founder/Coordinator of the Entrepreneurial Computing Skills Development Research Group (ECSDRG) in UNN. Prof Ibezim has 72 publications in international and national research journals including 11 books and 2 back chapters and has attended and read papers in more than 46 national/international Conferences. She has successfully supervised 4 PhDs, 10 Masters students, and is currently supervising more than 15 Post graduate students. Prof Ibezim is a member of several professional bodies including National Vocational Association of Nigeria (NVA), Computer Educators Association of Nigeria (CEAN), International Vocational Education and Training Association (IVETA), and Institute for Systems and Technologies of Information, Control and Communication (INSTICC). She is an Editor in some journals including Computer Education Research Journal (CERJ), Nigeria Journal of Issues in Science and Science Education, Journal of TVET Transformation (JTT), and Journal of Research in Science and Vocational Education. [Detailed CV](#)
- Dr. Collins Udanor is an Associate Professor of Computer Science (Artificial Intelligence). He teaches in the Department of Computer Science, University of Nigeria Nsukka. He holds a Bachelor's Degree in Computer Science & Engineering, a Masters Degree in Computer Science (Data Communications Specialist), and a Ph.D. in Electronic Engineering (Intelligent Agent Systems Specialist). He has advanced trainings and certifications in Cloud Computing & Network Virtualization, Internet of Things (IoT), Data Science, Grant Writing and Online Lecture Delivery, etc. He has skills in Data analytics, and multi-agent learning systems pedagogy. Collins Udanor leads a University research group, the High Performance and Intelligent Computing group (HiPIC, [hipiclab.org](http://hipiclab.org)), a cross-disciplinary research group based in the Department of Computer Science. He has won several project grants funded by the Lacuna Fund (2020), Nvidia Developer Program 2022, UNESCO-HP (2009-2013), Google (2011), Nigeria's Tertiary Education Trust Fund (TETFund, 2016, 2020, 2021), etc. He is also an Oracle Academy Faculty Prize winner in Artificial Intelligence, 2019. His project experiences include Network Virtualization, Cloud, Grid, and Edge Computing, etc. Prof. Collins Udanor leads the Labour and Productivity cluster of the Volunteer Expert Group (VEG) on the formulation of Artificial Intelligence Policy for Nigeria. He has also been involved in several international project collaborations across Europe and Africa, some of which include; the HP-UNESCO Brain Gain Initiative (BGI), the eI4Africa project, EU Horizon 2020 projects, WACREN, Sci-GaAI, EU Grid Forum, ITU Study Group 13, etc. In 2011 he led the team that developed the Pidgin Search Engine for Google. Dr. Collins Udanor has more than 30 peer-reviewed

publications in international journals and conference proceedings indexed and ranked by Clarivate Analytics, Springer, Scopus, etc.

- Dr. Emmanuel Chukwunweike Nwangwu, is a Senior lecturer and the current Head, Department of Computer and Robotics Education, University of Nigeria, Nsukka. He has over 12 years teaching experience in higher education. His areas of specialization include Computer Programming & Audio-Visual (Multimedia) Design and Productions. Dr. Nwangwu is the Media and Publicity Secretary, Local Management Committee of Erasmus Mundus Mobility Programme, Erasmus+ KA 107, and the Intra-Africa AFRICOM Project in his institution. He is also the current National Vice President of Computer Educators Association of Nigeria (CEAN) and Member, UNESCO-UNEVOC TVET Forum as well as belonged to various academic research groups. His research interests include E-learning, Multimedia Technologies, ICT, Courseware design and development and Robotics. Dr. Nwangwu has attended conferences, workshops and mobility programs in Japan, Spain and Tunisia respectively and have also published in international and local journals including Books and Book Chapters. He is happily married with three children.
- Dr. Ogbuokiri Blessing completed a Doctoral degree (Ph.D.) in Computer Science from the School of Computer Science and Applied Mathematics, University of the Witwatersrand (Wits), Johannesburg, South Africa. He obtained advanced trainings in machine learning, deep learning, IBM data science, database management, AI ethics and policy, TensorFlow, project management, etc. He is a lecturer at the Department of Computer Science, University of Nigeria, Nsukka (UNN). He has over fifteen years of work experience in academia, the software, and IT industries. He has managed teams and made many group decisions. He has a remarkable academic record at all levels of education. He holds the PSYBERGATE Computer Science Alumni Prize for the Best Student Tutor, at Wits University. Currently, he is a recipient of the Google DeepMind AlphaGo AI documentary. Dr. Blessing is a member of the following groups; Robotics, Autonomous, Intelligence and Learning research group at Wits, Black in AI, Institute of Information Technology Professionals (IITPSA), South Africa, International Association of Engineers (IAENG), Machine Intelligence Research Labs (MIR Labs), Washington, USA, and High Performance and Intelligence Computing (HiPIC), UNN. Dr. Blessing is a member of a research group, HiPIC, that won a number of research grants. The most recent ones are 2020/2021 Lacuna Project Research grant of \$110,000 for the deployment of a labelled dataset for an IoT-based aquaponics fish pond water monitoring system. 2015/2016 TETFund Institutional Based Research grant of \$4,000 for the deployment of an e-infrastructure for academic research. 2012/2013 UNESCO-HP Brain Gain Initiative (BGI) grant of \$12,000 for sustainability of the Grid infrastructure. 2011 UNESCO-HP Brain Gain Initiative (BGI) grant of \$10,000 to establish the first ever Nigeria Grid Computing infrastructure at the University of Nigeria (TheLion Grid, UNN). He has successfully supervised more than ten (10) honours projects. Dr Blessing has more than 15 peer-reviewed publications in international journals, conference proceedings, and book chapters. Dr Blessing is interested in the following research domains, theoretical computing, machine learning, deep learning for social good, computer vision, software engineering (emphasis on implementation and testing).



- Chukwuma Mgboji is a doctoral student, researcher and Lecturer in the department of Computer and Robotics Education. Chukwuma is pursuing a Ph.D. in Computer and Robotics Education with special interest in robotics and technological enhanced learning. Chukwuma bagged his B.sc and Masters from University of Nigeria and University of Lagos and has several years of research experience in Computer education and robotics and hands on experiences working with core IT service companies deploying solutions to institution.
- Nwosu Ogochukwu F. is a lecturer in the department of Computer and Robotics Education. She is currently a PhD student in the Department of Science education (Computer), Ebonyi State University. She is a member of Computer education Association of Nigeria (CEAN). Research interests include: Information and Communication Technology and Methodology. She has publications both in international and national journals.
- Eze Emmanuel Chekwube is a lecturer and a doctoral student in the department of Computer and Robotics Education, Faculty of Vocational and Technical Education, University of Nigeria Nsukka, a Researcher and Assistant Editor in IJHHR Journal.
- Fadip Audu Nannim is a Lecturer II with Computer and Robotics Education Department, University of Nigeria, Nsukka, Enugu State. Fadip Audu Nannim had his first degree in Computer Science Education from the University of Jos, Nigeria. He also holds a Masters of Technology (M.Tech.) in Computer Science Education from Abubakar Tafawa Balewa University (ATBU), Bauchi. Fadip Audu Nannim is currently a PhD student in the Department of Computer and Robotics Education, University of Nigeria, Nsukka. Fadip Audu Nannim has over 18 publications both in local and international journals.

#### **Members Google Scholar Citation links**

- Prof Nnenna Ibezim - <https://scholar.google.com/citations?user=EQhi2SoAAAAJ&hl=en>
- Dr Collins Udanor - <https://scholar.google.com/citations?user=c3C4jZMAAAAJ&hl=en>
- Dr Emmanuel Nwangwu - <https://scholar.google.com/citations?user=-R3TvwAAAAJ&hl=en>
- Ogbuokiri Blessing - [https://scholar.google.com/citations?user=JZ\\_wxE4AAAAJ&hl=en](https://scholar.google.com/citations?user=JZ_wxE4AAAAJ&hl=en)
- Mgboji Chukwuma - <https://scholar.google.com/citations?user=LUHmcEwAAAAJ&hl=en>
- Eze Emmanuel - <https://scholar.google.com/citations?user=NZ7e7CEAAAAJ&hl=en>
- Fadip Nannim - <https://scholar.google.com/citations?user=s8p5rSEAAAAJ&hl=en>

#### **Members Researchgate links**

- Prof Nnenna Ibezim - <https://www.researchgate.net/profile/Nnenna-Ibezim>
- Dr Collins Udanor - <https://www.researchgate.net/profile/Collins-Udanor>
- Dr Emmanuel Nwangwu - <https://www.researchgate.net/profile/Emmanuel-Nwnagwu>
- Dr Ogbuokiri Blessing - <https://www.researchgate.net/profile/Ogbuokiri-Blessing>
- Mgboji Chukwuma - <https://www.researchgate.net/profile/Chukwuma-Mgboji>
- Nwosu Ogochukwu - <https://www.researchgate.net/profile/Ogochukwu-Nwosu-2>

- Eze Emmanuel - <https://www.researchgate.net/profile/Emmanuel-Eze>
- Fadip Nannim - <https://www.researchgate.net/profile/Nannim-Fadip>

### **Ten (10) key publications of the RG from 2019 till date**

- Nannim, AF et al (2022). An Investigation of Reasons for Use and Challenges Militating Against the Utilization of Learning Management System by University Lecturers. *AJSTME* 8(1), 500 – 505.
- Mgboji, C. C., Ibezim, N. E., Nannim, A. F. (2021). Enhancing Scientific Research and Innovation: The role of the Computer Educator. *Literacy Information and Computer Education Journal (LICEJ)*,12(2), 3598 – 3602.
- Mgboji, C. C et al (2022). Coping with COVID-19: Gender responses on Economic and Social sustenance through ICT use. *International Journal of Instructional Technology and Educational Studies*. 3(3), 25-37.
- Nannim, A. F et al (2021). Rethinking Post Covid-19 Education: A Migration to Ubiquitous Learning Environment. *AJSTME* 6(2), 21-31.
- Abei Zhang et al (2020). Effects of Innovative and Traditional Teaching Methods on Technical College Students' Achievement in Computer Craft Practices *SAGE Open*, 10(4)1–11 DOI: 10.1177/2158244020982986.
- Ibezim, N. E., Onyia, A. A. and Nwangwu, E. C. (2020). Using Digital Learning Objects (DLOs) for students' achievement in computer appreciation studies. *International Journal of Mechanical Engineering and Technology (IJMET)*, 11(7), 25-37.
- Ogbonna, C. G., Ibezim, N.E. and Obi, C. A. (2019). Synchronous versus asynchronous e-learning in teaching word processing: An experimental approach. *South African Journal of Education*, 39(2), 1- 15.
- Eze, NU et al (2019). Testing the correctness of Educational Software System Based on Testmatica Model to explore its impact on productivity gains. *International Journal of Engineering Research and Technology*, 12(3), 321-332.
- Nwankwo, N., Njoku, N., Okafor, I., Adikwu, M., Ibezim, E., Ibezim, N., and Azoji, M. (2020). Re-validating Therapeutic Relevance of Monoclonal Antibody Therapies using computerized and digital signal processing-based bioinformatics approach. *Journal of Bioinformatics, Computational and System Biology*, 2(1), 111
- Ibezim, N. E. and Asogwa, A. N. (2020). Computer Simulation Model Effect on Students' Academic Achievement in Computer Logic. *International Journal of Management*, 11(8), 58 – 71.

## **82. Innovation in TVET Research Group**

**Main Research Focus:** To evolve outcomes that will help to re-engineer TVET practices/skills development, improve technical teacher education, up-skill researchers and develop indigenous digital instructional resources/tools for use in technical colleges, polytechnics, and universities.

### **Other areas:**

- To undertake researches in TVET systems innovation, programme delivery and best practices in skills development/ Training in the formal and non-formal settings

- To conduct skills gap analysis of emerging occupations for evolution of novel training programmes
- To explore boundaries/innovations in Greening TVET curriculum across TVET institutions.
- To carry out TVET policy analysis and dialogue with stakeholders

**Title of most recent research project:** Technology-enhanced Learning Responses to Pedagogical Changes During and Post-emergency Periods for Expanding Vocational and Technical Education Graduates Employability

**Other current or completed research projects**

- Ezika, J.F, Olayemi, M and **Orji, C.T** (2023) "Career Progression of Electronic Engineering Graduates: A Study of LinkedIn Career Profiles," *2022 5th Information Technology for Education and Development (ITED)*, Abuja, Nigeria, 1-6, doi: 10.1109/ITED56637.2022.10051612.
- Chukwuedo, S. O. & **Ohanu, I. B.** (2022). Optimizing vocational identity status and job search behavior via career-related practical skills training in electrical/electronic technology education. *International Journal for Educational and Vocational Guidance*. <https://doi.org/10.1007/s10775-022-09551-1>
- **Ohanu, I. B.**, Shodipe, T. O., Ohnau, C. M., & Anene-Okeakwa, J. E. (2022). System quality, technology acceptance model and theory of planned behaviour models: Agents for adopting blended learning tools. *E-Learning and Digital Media*. <https://doi.org/10.1177/20427530221108031>
- Ohanu, C. P., **Ohanu, I. B.**, Ogbuefi U. C., & Odo, K. C. (2022). Power Quality Improvement of a Distribution Network for Sustainable Power Supply. *International Journal of Integrated Engineering*, 14(1), 363-373. <https://doi.org/10.30880/ijie.2022.14.01.033>
- **Chukwuone, C. A.** Okor, B.A. Etal (2022) Patronizing Interior Decorators in University of Nigeria Nsukka : the Home Makers Perception. *Nigeria Journal of Home Economics*. Vol. 10 No 6 Pp 135-142
- **Ohanu, I. B.**, Shodipe, T. O., Ohnau, C. M., & Anene-Okeakwa, J. E. (2021). Quality blended learning systems for improving undergraduate students' skills. *Quality Assurance in Education*. <https://www.emerald.com/insight/0968-4883.htm>
- Onyedeké, Obinna Cyril1, Ihedioha Uchechi. M, **Emmanuel C Osinem**, et al (July 2020) Design and Analysis of an Image Encryption Using Digital Signature; *International Journal of Latest Technology in Engineering, Management & Applied Science (IJLTEMAS) Volume IX, Issue VII*, July 2020 | ISSN 2278-2540; [www.ijltemas.in](http://www.ijltemas.in)

**Name of the Coordinator: Professor Emmanuel C. Osinem**

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**Phone number of the Coordinator: +234 8060 925 921**

**Base Faculty/Institute/Center of the RG: Faculty of Vocational and Technical Education**  
**Department of the Coordinator: Agricultural Education**

**Headshot of the Coordinator**



**List of members and brief intro**

- Prof Emmanuel Osinem: Professor Emmanuel C. Osinem (PhD) of the Faculty of Vocational and Technical Education, University of Nigeria, Nsukka is an instructional development and quality assurance expert in TVET and higher education systems. He has over 25 years of university teaching, research and administrative experiences. Currently, he is the Coordinator of UNESCO-UNEVOC Centre based in the Faculty and Founder/Leader, Innovation in TVET Research /Project Group. He facilitated research and training activities of CETVETAR Centre of Excellence in TVET \$4.5 Million World Bank Grants under STEP-B Project in Nigeria, 2010-2013 as well as executed funded projects by African Development Bank and Nigerian TETFUND. He has consulted for UNESCO 2020-2021 in developing training guides/manual separately for administrators/policy makers and instructors/teachers on digital transformation of TVET and skills development systems in Africa as well monitoring the online training in West Africa. He recently worked with UNESCO team on: a) Building Innovation and Learning in TVET (BILT) Project 2020-2022; b) Developing UNESCO TVET Strategy 2016-2021 and current reviewed version of 2022-2029. He also represented University of Nigeria and participated in an European Commission funded Joint Africa-EU Partnership Strategy on harmonization of quality and standards in Africa higher education – *the Tuning Africa Project phases I & II* under Teacher Education from 2012 to 2018. [emma.osinem@unn.edu.ng](mailto:emma.osinem@unn.edu.ng)
- Prof N.E Ibezim: Nnenna Ekpereka Ibezim is a Professor of Computer & Robotics Education and the immediate past Head, Department of Computer & Robotics, Education, University of Nigeria, Nsukka (UNN). She is also a past Associate Dean of the Faculty of Vocational and Technical Education, UNN. Nnenna is equally the Assistant Co-ordinator and the Skills Training Programmes Facilitator at the University of Nigeria, Nsukka, UNEVOC Centre. She is involved in designing and conducting training/retraining programmes in different areas of TVET for youths, retirees, women and disadvantaged groups for empowerment and poverty reduction. Prof Ibezim is the Founder/Coordinator of the Entrepreneurial Computing Skills Development Research Group (ECSDRG) in UNN. Prof Ibezim has 72 publications in international and national research journals including 11 books and 2 back chapters and has attended and read papers in more than 46 national/international Conferences. She has successfully supervised 4 PhDs, 10 Masters students, and is currently supervising more than 15 Post graduate students [nnenna.ibezi@unn.edu.ng](mailto:nnenna.ibezi@unn.edu.ng)

- Dr Ifeanyi Ohanu: Dr. Ifeanyi Benedict Ohanu is a senior lecturer in the Department of Industrial Technical Education, Faculty of Vocational and Technical Education, University of Nigeria, Nsukka. He holds a PhD, a Master's Degree, and a BSc First Class Honours in Industrial Technical Education obtained from the University of Nigeria, Nsukka. His research interest focuses on Innovative Pedagogies in Vocational and Technical Education, Career and Technical Education, Industrial Technical Education, Career and Workplace Education, practical skills training and acquisition, Entrepreneurship, Inclusive entrepreneurial learning in TVET, career/job/work-related intentions, curriculum innovation, technical teacher preparation, workforce training, as well as career guidance; particularly in Electrical and Electronic Technology Education. UNN profile link <https://www.unn.edu.ng/internals/staff/viewProfile/MTA50A-->
- Dr Chiamaka Adaobi Chukwuone is a lecturer in the Home Economics and Hospitality Management Education Department of the faculty of Vocational Technical Education, University of Nigeria Nsukka. She has over 15 years of teaching and research experience at both undergraduate and postgraduate levels. She obtained a BSc degree in Home Economics in 1999 and an MSc degree in Home Economics in 2004. She also obtained a Ph.D. degree in Home Economics and Hospitality Management Education in 2014. She has been involved in some research projects. Chiamaka has published over twenty papers in reputable local and international peer reviewed journals and has presented over 20 papers in academic conferences. She also served as a resource person a number of workshops. She is a member of many professional associations. <https://www.google.com/url?sa=t&source=web&rct=j&url=https://www.unn.edu.ng/internals/staff/viewProfile/OTk0/5&ved=2ahUKEwjDjvLIhb79AhUESPEDHXm3A-AQFnoECAoQAQ&usq=AOvVaw2kQ5duKprMZqDynENWiiNS>
- Chibueze Tobias Orji is a lecturer and research fellow in the Industrial Technical Education (Electrical Electronics Technology) at the University of Nigeria, Nsukka. He obtained a BSc degree in Industrial Technical Education as the best graduating student and an MSc and Ph.D. degree in 2021. He is a professional member of IVETA, INTEI and Engineering Education Research in Africa. He has some scholarly publications to his credit. UNN Profile Page: <https://www.unn.edu.ng/internals/staff/viewProfile/NDYwNw-->
- Ms. Lillian Ogechukwu Nwandu is a Lecturer II in the Department of Business Education, Faculty of Vocational Technical Education, University of Nigeria, Nsukka. She holds Bachelor's and Master's degrees in Business Education (Accounting Option) from University of Nigeria, Nsukka. She is currently running her Ph.D. programme in the same institution. She teaches Accounting courses and other General Business Courses which include: Office Technology, Business Organization, Introduction to Management Information System and Knowledge Resources and Information management. She has served in various committees both at departmental and faculty levels respectively. [lilian.nwandu@unn.edu.ng](mailto:lilian.nwandu@unn.edu.ng) +234)8069277146
- Arc. Pemwa Joseph Gomwalk: After a long stint as a private practice consultant, Pemwa decided to expand her built environment career by joining the public service and working in various capacities on developmental interventions for rural

communities in Nigeria. These included coordinating the Millennium Development Goals' (MDGs') and United Nations Development Assisted Framework (UNDAF) projects within the FCT. Presently serving as an international development practitioner, her most recent efforts towards developing and adopting the requisite TVET policies, programmes and projects for FCT's vocational training centres aims at upgrading the quality of life of the polity living within the rural and underserved communities of Nigeria. Her dogged commitment to exemplary leadership and service resulted in an invitation to serve as the pioneer Team Lead, Nigerian Economic Summit Group (NESG), Housing & Urban Development Work Group.  
[pgomwalk@yahoo.com](mailto:pgomwalk@yahoo.com)

- Dr Ashagwu O. Okadi is a senior lecturer at the University of Nigeria, Nsukka. He is a professional TVET teacher and administrator with over twenty years in the teaching, supervision, and administration of TVET programmes at both secondary and university levels in Nigeria. He actively participated in developing the new curriculum of agricultural education and training and he is currently a lecturer in the Department of Agricultural Education, University of Nigeria, Nsukka. He is currently a team member in the TETFund-sponsored Technology Enhanced Learning project at the University of Nigeria, Nsukka.

**Members google scholar link: Google Scholar address:**

Dr Chukwuone <https://scholar.google.com/citations?user=rZBFbnMAAAAJ&hl=en>  
 Google Scholar Citation links: Dr Tobias Orji  
[https://scholar.google.com/citations?user=8uiQg\\_sAAAAJ&hl=en](https://scholar.google.com/citations?user=8uiQg_sAAAAJ&hl=en)

**Members Google Scholar Citation links: Prof Nnenna E. Ibezim**

<https://scholar.google.com/citations?user=EQhi2SoAAAAJ&hl=en>  
 Google Scholar Link: Dr Ifeanyi Ohanu  
<https://scholar.google.com/citations?hl=en&user=eToNZyYAAAAJ>

**Research gate links**

<https://www.researchgate.net/profile/Chiamaka-Chukwuone>  
<https://www.researchgate.net/profile/Chibueze-Orji-2>  
<https://www.researchgate.net/profile/Nnenna-Ibezim>  
<https://www.researchgate.net/profile/Ifeanyi-Ohanu>  
<https://www.researchgate.net/profile/Ashagwu-Okadi>

**Publications**

- Ardi, Z., Ildil, I., Orji, C. T., & Zola, N. (2023). Investigation of online counselling with solution focused brief counselling-based implementation for students with severe academic stress conditions. *Jurnal Konseling dan Pendidikan*, 10(3).
- Frederick C. Onah, **Ashagwu O. Okadi** et al. (2023). Profitability of Pig Farm Enterprises under Intensive System for Economic Recovery among Farmers in Enugu State, Nigeria. *Journal of Pharmaceutical Negative Results* Volume 14 (Special Issue 02) 2023. 1934 – 1945
- Ugwuoke CU, Omeje BA, **Okadi AO**, Ugwuowo L, Ikehi ME, Ekenta LU, **Ejiofor T. E, Osinem E. C.** (2022). Performance of Isa-Brown Layers and the Atomic Absorption Spectrophotometer of the Mineral Content of Eggs Produced by Moringa oleifera Leaf Powder Supplementation. *Brazilian Journal of Poultry Science* ISSN 1516-635X 2022 / v.24 / n.2 / 001-012 <http://dx.doi.org/10.1590/1806-9061-2021-1552>

- Onwukwe Blessing Chinasa, **J.A. Ukonze & Dr. A.O. Okadi** (2022). Sustainable Skill Acquisition in Agriculture as a Panacea for Economic Growth and Achieving Zero Hunger in Nigeria International Journal of Scientific and Management Research Volume 5 Issue 4 (April) 2022 ISSN: 2581-6888 Page: 226-236 - <http://doi.org/10.37502/IJSMR.2022.5417> <http://ijsmr.in/volume-5-issue-4.april-2022/> **SJIF**
- Edokpolor, J. E., Otache, I., & **Orji, C. T.** (2022). Entrepreneurial Career Self-Confidence and Sustainable Development Core Values: Moderating Effect of Entrepreneurial Career Intention. International Journal of Educational Benchmark, 21(1), 1-15.
- Ugwuanyi, N.A. & **Chukwuone , C. A.** (2022) Father's Involvement in family feeding in Nsukka Local Government Area , Enugu State . International Journal of Home Economics, Hospitality & Allied Research Vol 1 (1) Pp 89-102
- Opeyemi, O. O., & Orji, **Chibueze, T.** (2022). Assessment of the Work-skills Improvement Needs of Graduate of Auto-electricity/electronics in Motor Vehicle Mechanic Work. *Frontiers*, 2(1), 15-21.
- Nannim, A. F., **Ibezim, N. E.**, Mgboji, C. C. and Ukala, G. (2021). Rethinking Post Covid-19 Education: A Migration to Ubiquitous Learning Environment. *AJSTME* 6(2), 21-31.\
- Mgboji, C. C., **Ibezim, N. E.**, Nannim, A. F. (2021). Enhancing Scientific Research and Innovation: The role of the Computer Educator. *Literacy Information and Computer Education Journal (LICEJ)*,12(2), 3598 – 3602.
- **Lilian O. Nwandu**, Ugwoke, E.O & Eze, C.C. (2021). Challenges to Application of Environmental Management Practices in Manufacturing Firms in Anambra State. *Journal of Home Economics Research*. 28(2):19-31.**Indexing Body: Scopus**

## **INSTITUTES, CENTRES AND LIBRARY**

### **83. Gender and Development Policy Research Group (GENDER Research Group)**

#### **Main Research Focus of the RG:**

- i. Mainstream and bring gender issues to the fore in the University of Nigeria and help create an institutional platform for human resources development/capacity building on gender related research and action.
- ii. Maintain a database of gender-based information and activities in Nigeria and UNN
- iii. Run analysis of gender based information and activities for evidence-based policy advising.
- iv. advance and remain at the frontiers of the knowledge needed for mainstreaming gender in policy formulations and implementations at all levels and sectors of the country's governance and economy.
- v. Work with the Federal ministry of women affairs and other ministries and Gender desks to contribute to national development.
- vi. Conduct relevant contemporary Gender and related researches and participate actively in global, continental and national development issues.
- vii. Respond to and participate competively in research grants tournaments and consultancy calls

Title of most recent research project: Tackling Sexual Harassment and Transforming Institutions through Workshops and Edutainment : A Three-University Collaborative Approach (collaborative research with C-CASH, UNN)

#### **Other current or completed research projects:**

1. AAP Transforming Institution Grant for the project titled: Sensitization workshop on mainstreaming gender in the University of Nigeria
2. Symposium on sexual harassment in the University of Nigeria, Nsukka campus
3. Symposium on sexual harassment in the University of Nigeria, Enugu campus
4. Baseline study on the incidence and reporting of sexual harassment in the university of Nigeria
5. Association of Commonwealth Universities (ACU) Early Career Researcher Training
6. Tackling sexual harassment in tertiary institutions through anonymous/digital reporting
7. Promoting Inclusive Homegrown Clean Energy Solutions for Climate Change Adaptation and Mitigation in Africa (on going)

**Name of the Coordinator:** Professor Anthonia Ifeyinwa Achike

**UNN email address of the RG:** gen-cent@unn.edu.ng

**UNN email address of the coordinator:** anthonia.achike@unn.edu.ng

**Current webpage of the RG:** <https://www.unn.edu.ng/gender-and-development-policy-research-group-gender-research-group/>

**Phone number of the RG:** +2347059002550

**Phone number of the coordinator:** +2348034234147

**Base Faculty/Institute/Center of the RG:** Gender and Development Policy Centre (GEN-CENT), University of Nigeria



**Department of the Coordinator:** Department of Agricultural Economics, University of Nigeria Nsukka

**Brief Bio of Members (with their Google Scholar and Research Gate links)**

- PROFESSOR ANTHONIA ACHIKE is a Professor of Agricultural Economics, University of Nigeria, Nsukka (UNN). Also, a global/Adjunct faculty member of the Trade Policy Training Centre in Africa (Trapca), Arusha-Tanzania. She holds a PhD degree in Agricultural Economics, specializing in Agricultural Finance and Project Analysis. Currently, Prof Achike is the Director of the Gender and Development Policy Centre (GEN-CENT) of University of Nigeria Nsukka, the team leader of Nigeria's Community Based Poverty Monitoring System (CBMS- Nigeria), UNN Focal Point for the Alliance for the African Partnership (AAP) and the Regional Universities Forum for Capacity Building in Agriculture (RUFORUM).  
Google scholar: <https://scholar.google.com/citations?user=mmW376kAAAAJ>  
Research gate: <https://www.researchgate.net/profile/Anthonia-Achike>
- PROFESSOR ELSIE UMEANO is a lecturer in the Department of Educational Foundations and a Professor of Educational Psychology in the University of Nigeria. Her researches mostly reflect diversity in ethnicity and gender. She is the Chairperson and Coordinator of the Centre for the Challenged, University of Nigeria, a centre committed to the care of the econo-socio- politically and the physically challenged in and around the University of Nigeria.  
Google scholar: <https://scholar.google.com/citations?user=XBTmYk8AAAAJ&hl=en>  
Research gate: <https://www.researchgate.net/profile/Elsie-Umeano>
- DR NNAEMEKA CHUKWUONE is a Senior Lecturer in the Department of Agricultural Economics and a Senior Research Fellow in Gender and Development Policy Centre (GEN-CENT). He is currently the Director of the Resource and Environmental Policy Research Centre (REPRC)- Efd Nigeria. For over fifteen years, he has been conducting research and policy advocacy on local and global issues in agriculture, environment and resource economics. He has published widely and presented at different international conferences and meetings. He has also carried out many consultancy assignments for the World Bank in Nigeria.  
Google scholar: <https://scholar.google.com/citations?user=5rT3ObwAAAAJ&hl=en>  
Researchgate: <https://www.researchgate.net/profile/Nnaemeka-Chukwuone>
- PROFESSOR UCHENNA MARIESTELLA NZEWI is a Lecturer in the Department of Science Education and former Dean, School of General Studies, University of Nigeria. She is also a former Director of CUDIMAC in UNN. Professor Nzewi has published over 100 articles in both national and international journals. Google scholar: <https://scholar.google.com/citations?user=6Z7GS0AAAAJ&hl=en>  
Research gate: <https://www.researchgate.net/profile/Uchenna-Nzewi>
- PROFESSOR NKADI ONYEGEGBU is at present, the Head of the Department and a Fellow of Science Teachers' Association of Nigeria (STAN). A Past Director, Institute of Education; Professor and Reproductive Health and Sexuality Educator in Science Education Department of University of Nigeria, Nsukka. She holds a

BSc. in Microbiology, a PGDE in Science Education, M.Ed and Ph.D. in Science Education. Her academic career is garnished with strings of academic publications. She has edited twelve books, contributed chapters in many books and has published over forty-eight avalanche of academic articles in renowned national and international journals. As a researcher,

- Professor Nkadi Onyegegbu has severed as a consultant to many International Organizations including the World Health Organization [WHO], United Nations Children’s Fund [UNICEF],
- John D, & Catherine T MacArthur Foundation, Action Aids, Rainbow West Africa, Ford Foundation, United Nations Development Program [UNDP], UKAID, DFID, Federal Ministry
- of Health, Nigeria and Millennium Development Goals [MDG] and National Reproductive Health, HIV & AIDs Prevention, Care and support through NYSC. Currently, she is a part time
- National Consultant for UNICEF on WASH, Wins4Girls MHM research Project. A member of Mannion Daniels, AmplifyChange, UK Technical Review Panel {TRP}.
- Google scholar: <https://scholar.google.com/scholar?q=Nkadi+Onyegegbu+&hl=en>
- Research gate: <https://www.researchgate.net/profile/Nkadi-Onyegegbu>
- DR RAYMOND ADIBE is a Senior Lecturer in the Department of Political Science and a Senior Research Fellow, Gender and Development Policy Centre, in the University of Nigeria. He is a
- member of the Diversity Committee, Association for Research on Civil Society (AROCSA). His research interests include civil society, gender, race and ethnic relations, environmental politics
- and political economy. Google scholar: <https://scholar.google.com/citations?user=l0SaTcQAAAAJ>
- Research gate: <https://www.researchgate.net/profile/Raymond-Adibe>
- DR CYNTHIA EBERE NWOBODO is a Senior Lecturer in the Department of Agricultural Extension and a Senior Research Fellow, Gender and Development Centre, University of Nigeria. She won the Vice Chancellor’s Postgraduate Prize (PhD) in the 2016/2017 academic session as well as the Faculty of Agriculture Best PhD student prize in the same session. She is a recipient of many international grants like the Association of Commonwealth Universities (ACU) Early Career Researcher Training Grant Google scholar: <https://scholar.google.com/citations?user=vs6fpeYAAAAJ&hl=en>
- Research gate: <https://www.researchgate.net/scientific-contributions/Cynthia-Ebere-Nwobodo-2152535106>
- DR IKECHUKWU EROJIKWE is a Lecturer in the Department of Theatre and Film Studies, University of Nigeria. He is the founder of the Campus Campaign Against Sexual Harassment (C-Cash), a staff and student led-initiative to tackle sexual harassment in tertiary institutions. Dr Erojikwe is an individual recipient of the Association of the Commonwealth Universities (ACU) grant on women empowerment (2020-2021) Google scholar:

<https://scholar.google.com/citations?user=91slfkUAAAAJ&hl=en> Research gate: <https://www.researchgate.net/profile/Ikechukwu-Erojikwe>

- DR NGOZIKA ANTHONIA OBI-ANI is a Senior Lecturer in the Department of History and International Studies, University of Nigeria. She is a Fellow, African Peacebuilding Network and Ife Institute of Advanced Studies. Dr Obi-Ani is a member of many professional bodies like the Historical Society of Nigeria. Google scholar: <https://scholar.google.com/citations?user=kyo8tL0AAAAJ&hl=en> Research gate: <https://www.researchgate.net/profile/Ngozika-Obi-Ani>
- DR CHUKWUEMEKA Nwigwe is a Senior Lecturer in the Department of Fine and Applied Arts, University of Nigeria, and postdoctoral fellow of African Humanities Program of American Council of Learned Societies. Dr Nwigwe is a member of Art Council of African Studies Association (ACASA) and African Studies Association
- Google scholar: <https://scholar.google.com/citations?user=Y7RX7VEAAAAJ&hl=en>
- Research gate: <https://www.researchgate.net/profile/Chukwuemeka-Nwigwe-2>
- MR CHRISTIAN BASIL OMEH is a lecturer in the Department of Computer and Robotics Education in the faculty of Vocational and Technical Education, University of Nigeria Nsukka (UNN) in Enugu State. He holds a B.Sc. (Hons.) in computer science education and; M.Tech in Computer Education. He has published several journal articles reputable in Computer Education locally and internationally. He is presently contributing to computer education and scholarship by teaching at the undergraduate level in the Department of Computer and Robotics UNN
- Google scholar: <https://scholar.google.com/citations?user=XVDGIRgAAAAJ&hl=en>
- Research gate: <https://www.researchgate.net/profile/Christian-Omeh>
- DR EMMANUEL ONYEABOR is a Senior Lecturer in the Department of International and Comparative Law, Faculty of Law, University of Nigeria. He earned a B.Ed in Geography, MSc in Development Planning and another MSc in Environmental Management, He also possess a LLB, LLM (Human Rights) and PhD (Environmental Law and Policy). He is a researcher at the Gender and Development Policy Centre, University of Nigeria and has published numerous articles in reputable journals. Google scholar: <https://scholar.google.com/citations?user=xO1o6SAAAAJ&hl=en>
- Research gate: <https://www.researchgate.net/profile/Emmanuel-Onyeabor>
- DR UCHECHUKWU PASCHAL CHUKWUDI is a Lecturer in the Department of Crop Science, University of Nigeria. He was a 2022 recipient of the Young African Phosphorous Fellowship
- Award by the African Plant Nutrition Institute, Morocco. He is also a member of many professional bodies like the Crop Science Society of Nigeria (CSSN), Horticultural Society of Nigeria (HORTSON), International Society for Tropical Root Crops- Africa Branch (ISTRC-AB) and Southern African Society of Horticultural Sciences (SASHS). Google scholar: <https://scholar.google.com/citations?user=mF5hHwAAAAJ&hl=en> Research gate: <https://www.researchgate.net/profile/Uchechukwu-Chukwudi>

- PROFESSOR VINCENT CHIGOR is a Lecturer in the Department of Microbiology, University of Nigeria. He is a Professor of Environmental and Public Health Microbiology and Co-Director, C-CASH. Professor Chigor is experienced in engaging with communities to improve health outcomes and helping people understand the importance of water for every aspect of life. Google scholar: <https://scholar.google.com/citations?hl=en&user=aHAXGHYAAAAJ>
- Research gate: <https://www.researchgate.net/profile/Vincent-Chigor>
- DR SCHOLARSTICA UKWOMA is a Reader. She holds PhD in Library and Information Science from the University of Nigeria. She is a researcher with many academic publications both in national and international journals. Her research interests include gender studies, bibliometrics and scholarly communications
- Google Scholar: <https://scholar.google.co.za/citations?user=Ckk40y8AAAAJ&hl=en>
- Research gate: <https://www.researchgate.net/profile/Scholastica-C-Ukwoma>

#### **List of exhibitions/shows since 2019**

- Exhibition and official launch of the digital Whistle Blowing Portal for sexual harassment reporting (2021)
- Awareness roadshow to publicize the launching of the Campus Campaign Against Sexual Harassment (C-Cash) (2022)
- Career talk visitations to girls secondary school in urban and rural communities in Nsukka for STEM awareness (2022 and 2023)

## **84. Information Literacy for Community Development Research Group**

### **Main research focus and other areas of research interest of the RG:**

- Functional Literacy (Such as Reading Practices and Promoting Reading Practice Campaigns).
- Adult Literacy and Training (Such as training of youths and non-youths out of school in certain acceptable programmes).
- Media Literacy (Such as task definition, information-seeking strategies, information access, use of information, and evaluation).
- Peaceful Co-Existence within the Community in this era of social vices and crime.

**Title of the most recent research project:** Classroom environment required for meeting the information needs of students with hearing impairment in Nigerian universities. BY L Onuigbo, NE Osadebe, NE Achebe - International Journal of ..., 2020 - Taylor & Francis

### **Other current or completed research projects:**

- Enhancing Literacy Learning among Primary School Pupils in Nsukka Local Government Area of Enugu State: The Role of the Children's Centre Library, University of NIGERIA, NSUKKA. EO Njoku Mrs - 2020 - [digitalcommons.unl.edu](https://digitalcommons.unl.edu)
- Faculty Readiness in teaching Video Information Creation in Nigerian Library and Information Science Departments. BY VN Okafor, NE Osadebe, EO Njoku, BO Ewa - 2017 - [library.ifla.org](https://library.ifla.org)

- Enhancing Literacy Learning among Primary School Pupils in Nsukka Local Government Area of Enugu State: The Role of the Children's Centre Library, University of EO Njoku Mrs - 2020 - [digitalcommons.unl.edu](https://digitalcommons.unl.edu)
- Bridging Literacy Gaps between Urban and Rural Youths in Nsukka. Enugu State, Nigeria: The Children's Centre Experience NE Osadebe - [researchgate.net](https://www.researchgate.net)
- Climate change education and multi-stakeholder partnership projects to scale up climate resilience in Africa. SIC Dibia, U Onwuzurike, NC Olisah, BO Ewa 2022
- In-Service Training at Nnamdi Azikiwe Library (NAL), University of Nigeria, Nsukka, Enugu State, Nigeria. MC Nwafor, E Njoku, N Osadebe, B.O Ewa - 2015 - Nnamdi Azikiwe Library, University
- Empowering Rural Women through Information Provision: The Strategic Roles of the Library. SC Ukwoma, EO Njoku - Library Philosophy & Practice, 2013 –

**Name of the coordinator:** Ewa, Beatrice O. (Mrs).

**UNN email address of the coordinator:** [beatrice.ewa@unn.edu.ng](mailto:beatrice.ewa@unn.edu.ng)

**UNN email address of the RG:** [ilcd.researchgroup@unn.edu.ng](mailto:ilcd.researchgroup@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/information-literacy-for-community-development-research-group/>

**Phone number of the RG:** Nil

**Phone number of the coordinator:** 08069649685

**Base Faculty/Institute/Center of the RG:** Nnamdi Azikiwe Library, UNN.

**Department of the coordinator:** Nnamdi Azikiwe Library, UNN.

#### **List and brief profiles of members:**

- Dr. Mrs Ngozi Osadebe is a Deputy University Librarian at Nnamdi Azikiwe Library, University of Nigeria, Nsukka. She is a chartered librarian. A Lecturer at the Department of Library and Information Science and member of the Information Technology Section of the Nigerian Library Association. She is currently the divisional head of Special needs and branch libraries section. She has many publications to her credit. She is married with children. <https://library.unn.edu.ng/osadebe-ngozi-eunice/>
- Ezinne Njoku Ezinne is a Librarian at Nnamdi Azikiwe Library, University of Nigeria, Nsukka. She has a Master's degree in Chemistry (M.Sc); and Library and Information Science (MLS). She is a member of the Nigerian Library Association (NLA), Enugu State Chapter. She is presently in charge of the Special Needs Section of the Library. She is married with Children. University of Nigeria, Nsukka [ezinne.njoku@unn.edu.ng](mailto:ezinne.njoku@unn.edu.ng).
- Nwafor Michael Chigozie, is a Senior Librarian at Nnamdi Azikiwe Library, University of Nigeria, Nsukka. He has Diploma in Adult education, Bsc Psychology, PGDL, MLS and a Doctoral Student in Library and Information Science Department University of Nigeria Nigeria Nsukka. He is a member of the Nigerian Library Association (NLA), Enugu State Chapter and married with Children. <https://www.researchgate.net/profile/Michael-Nwafor>
- Dr. Mrs Adizetu A. Ali is a Principal Librarian at Nnamdi Azikiwe Library, University of Nigeria, Nsukka. She possesses M.ed from University of Nigeria, Nsukka and MLS from the Department of Library and Information Science. She is a member of Nigerian Library Association (NLA), Enugu State Chapter. She is married with children.

<https://scholar.google.com/scholar?cluster=9345372666628655116&hl=en&oi=scholar> arr adizetu.ali@unn.edu.ng –

- Mrs Chioma Onoh is a Senior Librarian at Nnamdi Azikiwe Library, University of Nigeria, Nsukka. She has M.Sc in Public Administration, PGDL and a Doctoral Student in Library and Information Science Department University of Nigeria Nigeria Nsukka. She is a member of the Nigerian Library Association (NLA), Enugu State Branch. She is married with children. <https://digitalcommons.unl.edu/cgi/viewcontent.cgi?article=14060&context=libphilpr>
- Beatrice Ewa is a Librarian at Nnamdi Azikiwe Library, University of Nigeria, Nsukka. She has a Post Graduate Diploma Certificate in the Department of Library and Information Science. She is currently pursuing her Master's degree in the same Department. She is a member of the Nigerian Library Association (NLA) Enugu State branch. She is married with children. <https://www.google.com/search?q=Ewa+Beatrice+O&client=firefox-b-d&ei=rrsEZPOoLpGSxc8PsfW5uAs&start=20&sa=N&ved=2ahUKEwjzt73Gk8X9AhURSfEDHbF6Drc4ChDy0wN6BAgDEAc&biw=1366&bih=643&dpr=1>
- Emmanuel Nwangwu is a Head of Department at Department of Computer Education Unit (VTE). His research interest is in the development of computer packages for teaching and learning. He is married with children. <https://www.researchgate.net/profile/Ebere-Nwangwu>. emma.nwangwu@unn.edu.ng
- Babrinde Elizabeth is a Lecturer at the Department of Library and Information Science and member of the Information Technology Section of the Nigerian Library Association. She is currently running her PhD programme. She has many publications to her credit. She is married with children. <https://library.unn.edu.ng/babrinde>

### Members google scholar citation links

- Ngozi Osadebe <https://scholar.google.com/citations?user=yH4wBR0AAAAJ&hl=en>
- Ezi. O. Njoku: [https://scholar.google.com/scholar?hl=en&as\\_sdt=0%2C5&q=Ezi+O+Njoku&btnG=ezinne.njoku@unn.edu.ng](https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=Ezi+O+Njoku&btnG=ezinne.njoku@unn.edu.ng).
- Nwafor Micheal chigozie: <https://scholar.google.com/citations?user=jpVXW1QAAAAJ&hl=en>
- Adizetu Ali: [https://scholar.google.com/citations?view\\_op=view\\_citation&hl=en&user=g7foq5EAAA&citation\\_for\\_view=g7foq5EAAA&u-x6o8ySG0sC](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=g7foq5EAAA&citation_for_view=g7foq5EAAA&u-x6o8ySG0sC)
- Chioma Onoh: <https://scholar.google.com/citations?user=yS1wXd8AAAAJ&hl=en>
- Ewa Beatric O: [https://scholar.google.com/scholar?hl=en&as\\_sdt=0%2C5&q=EWA%2C+B.+O.&oq=Ewa%2C+B](https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=EWA%2C+B.+O.&oq=Ewa%2C+B)
- Emmanuel Nwangwu: [https://scholar.google.com/scholar?hl=en&as\\_sdt=0%2C5&q=Emmanuel+Nwangwu&btnG=https://www.unn.edu.ng/internals/staff/viewProfile/MjY2MQ--/1](https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=Emmanuel+Nwangwu&btnG=https://www.unn.edu.ng/internals/staff/viewProfile/MjY2MQ--/1)
- Babrinde Elizabeth [https://scholar.google.com/scholar?hl=en&as\\_sdt=0%2C5&q=Babrinde+elizabeth](https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=Babrinde+elizabeth)

### Members researchgate links

- Ngozi-Osadebe: <https://www.researchgate.net/profile/Ngozi-Osadebe>
- Ezi. O. Njoku: <https://www.researchgate.net/profile/Ezi-Njoku>
- Michael Chigozie Nwafor: <https://www.researchgate.net/profile/Michael-Nwafor>
- Adizetu Ali: <https://www.researchgate.net/profile/Prince->
- Chioma Onoh: <https://www.researchgate.net/profile/Chioma-Onoh>
- Ewa B. O.: <https://www.researchgate.net/profile/Benjamin-Anabaraonye-Ewa>
- Emmanuel Nwangwu: <https://www.researchgate.net/profile/Ebere-Nwangwu>.
- Babrinde Elizabeth: <https://www.researchgate.net/profile/babarinde>

### Key publications of the RG from 2019 till date.

- Information Literacy: A Panacea for Unhealthy Youth Development in 21st Century Nigeria NE Osadebe, NA Idoko NIGERIAN LIBRARY ASSOCIATION, 19
- Academic Librarians & Continuous Professional Development Programmes in Enugu State. NE Osadebe, BO Ewa, EO Njoku – 2018
- Enhancing Literacy Learning among Primary School Pupils in Nsukka Local Government Area of Enugu State: The Role of the Children's Centre Library, University of NIGERIA, NSUKKA.EO Njoku Mrs - 2020 - digitalcommons.unl.edu
- Faculty Readiness in teaching Video Information Creation in Nigerian Library and Information Science Departments. BY VN Okafor, NE Osadebe, EO Njoku, BO Ewa - 2017 - library.ifla.org
- Enhancing Literacy Learning among Primary School Pupils in Nsukka Local Government Area of Enugu State: The Role of the Children's Centre Library, University of EO Njoku Mrs - 2020 - digitalcommons.unl.edu
- Strategies for preventing communal clashes using library and information services in South East Nigeria RI Echezona, MN Nwegbu, N Osadebe Injury prevention 18 (Suppl 1), A142-A142.
- In-Service Training at Nnamdi Azikiwe Library (NAL), University of Nigeria, Nsukka, Enugu State, Nigeria. MC Nwafor, E Njoku, N Osadebe, B.O Ewa - 2015 - Nnamdi Azikiwe Library, University
- Empowering Rural Women through Information Provision: The Strategic Roles of the Library. SC Ukwoma, EO Njoku - Library Philosophy & Practice, 2013 –
- Library services for students with visual impairment in selected universities in Nigeria. NE Osadebe, LN Onuigbo, BO Ewa - African Journal of Library ..., 2019
- Information Dissemination of Drug Abuse Prevention: the use of Social Media in Federal University Libraries in South-East Nigeria MO Okoye, NE Osadebe, NC Okoye Home Economics Research Association of Nigeria

## **85. Institute of Molecular Medicine and Infectious Diseases (IMMID) Research Group**

**Main Research Focus:** Molecular basis of diseases, infectious diseases and pathogens, genetic basis of diseases

**Title of most recent research project:** Epidemiology of Rota virus diarrhea among children less than 5 years in Enugu, south east Nigeria.

**Name of coordinator:** Prof Beckie Tagbo

**UNN email address of coordinator:** Beckie.tagbo@unn.edu.ng

**UNN email address of research group:** [immid@unn.edu.ng](mailto:immid@unn.edu.ng)

**Current webpage of the RG:** <https://www.unn.edu.ng/institute-of-molecular-medicine-and-infectious-diseases-immid-research-group/>

**Phone number of RG:** 08033096473

**Phone number of the coordinator:** 08033096473

**Base Faculty/Institute/ Center of RG:** Institute of Molecular Medicine and Infectious Diseases

**Department of the coordinator:** Paediatrics