

CAREER OBJECTIVE

To engage in research targeted at developing the scientific context of stream biogeochemistry as it relates to hydrologic connectivity and nutrient dynamics in urban watershed and streams.

EDUCATION

Federal University of Technology Owerri, Imo State

M.Sc., Environmental Technology (On-going)

2018 - Present

Study Option: Geo-Environmental Technology

Thesis: Development of a System Dynamics Approach to the Simulation of Urban Catchment Response to Land Use Changes

B.Tech., Environmental Technology

October, 2014

Study Option: Geo-Environmental Technology

Project: GIS-Based GIS-Based Source Water Vulnerability Assessment (Case Study of Otamiri River)

PUBLICATION

Journal Papers

- AC-Chukwuocha N, **Ogbenna U**, Ogugua C, Emenike N (2016). Erosion Sensitivity Assessment of Communities in Owerri, Nigeria Using Geographic Information System and Revised Universal Soil Loss Equation-Based Model, American Journal of Geographic Information System, Vol. 5 No. 2, 2016, pp. 55-67. <http://article.sapub.org/10.5923.j.ajgis.20160502.03.html>
- AC-Chukwuocha N.B and **Ogbenna U.V** (2015). GIS-Based Source Water Vulnerability Assessment of Otamiri River, Owerri S.E Nigeria. Journal of Multidisciplinary Engineering Science and Technology (JMEST). Vol. 2 Issue 6, 1355-1368. <http://www.jmest.org/wp-content/uploads/JMESTN42350797.pdf>

Conferences

- Ogbenna U** and Amangabara G (2020). Influence of Landscape Dynamics on Urban Catchment Morphology (A Case Study of Nwaorie-Otamiri Catchment). Abstract Accepted for the 2nd International Conference on Water, Megacities and Global Changes (EAUMEGA 2020), 1-4 December 2020.
- Chukwuocha A. C and **Ogbenna U.V** (2018). Adjusting Errors in Global Elevation Data in the Milder Terrains. Proceedings of the Africa GEO 2018 Conference (pp. 168-171). Gauteng: South African Journal of Geomatics.

PROFESSIONAL EXPERIENCE

Geoenvironsafe Mapping Solutions

Owerri, Nigeria

Program Officer/ GIS Analyst

August, 2017- Present

- Developed unique training outlines and managed the training of Surveyors and Civil Engineers on the application of the Geographic Information System in analysing drainage related issues such as flooding and erosion in south-east Nigeria.

Freelance

Port-Harcourt, Nigeria

Environmental/GIS Consultant

Februray, 2017-Present

- Collaborated with other Environmental Consultants to carry out Environmental Evaluation and Impact Studies during and after oil and gas production and before road constructions projects.
- Prepared reports for each of these projects.

Research Assistant

Nov. 2014- July 2017

- Designed a geodatabase to accommodate the newly digitised data extracted from analogue sources.
- Developed environmental field sampling and data collection plan for watershed assessment and generated draft reports for review.

PROJECTS

- Environmental impact assessment (EIA) for the construction of 6km access road Alok Agomogom, Cross river state. 2019 (Client: Ministry of Niger Delta Affairs)
- Environmental impact assessment (EIA) for the construction of Ium-Mbube-Oku Bushi Road(9.8km) Igodor-Emor Ekparo Kendurong-Ogende-Emor-Mpouse-Lekang) Ogoja/Boki LGA, Cross river state 2019 (Client: Ministry of Niger Delta Affairs)
- Environmental Evaluation Study of Obite, Ogbogu, Ibewa and Olo Facilities (Client: Total E&P Nigeria Limited, 2018-2019)
- Investigation of Black Soot Observed in Port-Harcourt (Client: Total E&P Nigeria Limited, 2017)
- Land Use Change and Fragmentation Analysis of Federal University of Technology Owerri and its Environs. (Client: Federal University of Technology Owerri.)
- Assessment of the Conveyance Suitability of Major Drainage Artery of an Urban Basin-An Example of Otamiri River Owerri, Imo State, South-eastern Nigeria. (2016)

SUMMARY OF SKILLS AND ABILITIES

- Geospatial Analyses
- Hydrology
- Environmental Assessment
- Analytical and Critical Thinking

RESEARCH INTEREST

- Ecohydrology
- Hydrological Connectivity
- Complex Systems
- Stream Biogeochemistry
- Instream Contaminant Transport and Fate
- Geospatial Analyses

PERSONAL DEVELOPMENT

- Numerical Analysis
- Python Programming
- Technical Report Writing
- Hydrological Modelling

COMPUTER LITERACY

- GIS (ArcGIS and QGIS), Spatial Analysis and Model Builder
- Programming (Python)
- Hydrologic and Watershed Modeling (HecHMS, ArcHydro, HecRAS)
- Microsoft Office (MS Word, Excel, Powerpoint and Access)

PROFESSIONAL AFFILIATIONS

Member

International Association of Hydrological Sciences	2018-Present
International Water Association	2018-Present
Nigeria Young Water Professionals	2018-Present

VOLUNTEER EXPERIENCE

Nigeria Young Water Professionals

Owerri, Nigeria

Imo State Chapter Coordinator

2019- Present

- I organised the students to participate in the 2019 Stockholm Junior Water Prize Competition in Imo State, Nigeria.

Cathedral Church of the Transfiguration of Our Lord (CATOL) Owerri, Imo State

Owerri, Nigeria

Teen Church Teacher

2018-2019

- Assisted in the weekly running of the teens program in the cathedral
- Provided counsel to teenagers in areas of need.