

## OBINNA UROM

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Works hard to be a seasoned geoscience educationist with great intellectual ability required for research and teaching, with a high level of confidence to succeed in performing complex tasks and processes with minimal supervision.

### EDUCATION

#### **Master of Science (in view), Geology, 2024 GPA: 3.81/4.0**

University of Toledo Ohio

Thesis Title: Time-lapse monitoring of soil water and characterization of soil properties using Electromagnetic and GPR methods.

Advisor: Dr. Kennedy Doro

External funding: ODHE-HABRI

#### **Bachelor of Science, Geology, 2019 GPA: 4.77/5.0**

Federal University of Technology, Owerri (FUTO)

Thesis Title: Electro-geohydraulic estimation of shallow aquifers of Owerri and environs, Southeastern Nigeria using multiple empirical resistivity equations.

Advisor: Dr. Alex Opara

### RESEARCH EXPERIENCE

#### **Department of Environmental Sciences, University of Toledo, Ohio, United States**

May 2022 – Present

##### Graduate Research Assistant

- Carry out wetland restoration in Ohio as part of H2Ohio projects using geophysical methods.
- Support research on near surface geophysics at Dr. Doro's Geophysics lab.

#### **Department of Geology, Federal University of Technology, Owerri, Nigeria**

Oct.2019 – April 2022

##### Graduate Research Assistant

- Supported water resources and environmental research Exploration Geoscience Team leading to two publications with International Journal of Energy and Water Resources
- Assisted Dr. Alexander Opara supervise final students leading to the successful completion of five students research theses.

### TEACHING EXPERIENCE

#### **Department of Environmental Sciences, University of Toledo, Ohio, United States**

May 2022 – Present

##### Undergraduate Mentor

- Mentor undergraduate students working intermittently at Dr. Doro's Geophysics lab.
- Mentor National Science Foundation (NSF) Research Experienced Undergraduates (REU) posted to Dr. Geophysics lab.

**Department of Geology, Federal University of Technology, Owerri, Nigeria**

Oct.2019 – April 2022

Class Advisor for Second-year students

- Taught introductory Geophysics and Engineering geology tutorials to the students in the absence of the professor.
- Mentored the second-year class, graded the test/exam scripts, and prepared their assessment results leading to their successful graduation of the class in October 2023
- Led bi-weekly laboratory and problem-solving sections for the second-year class.

**Science Department, Trinity College Cotonou, Republic of Benin**

Nov.2018 – Oct.2019

Mathematics and Geography Teacher

- Taught Mathematics and Geography to seniors for one academic session leading to 10 students graduating with distinctions in Mathematics and Geography in 2019 West African Examination Council
- Organized field trips and Excursion for the science students in 2018 leading to their sensitization of climate change.
- Prepared three seniors on debate titled 'between developed and undeveloped regions of the world, who is to blame for global warming' in 2019 leading to their emerging second in the Republic of Benin in all second secondary schools in the country.

**PUBLICATIONS**

- Oli, I.C., Ahairakwem, C.A., Opara, A.I., Ekwe, A.C., Osi-Okeke, I, **Urom, O.O.**, Udeh, H.M., and Ezennubia, V.C. (2020). Hydrogeophysical assessment and protective capacity of groundwater resources in parts of Ezza and Ikwo areas, Southeastern Nigeria. International Journal of Energy and Water Resources. <https://doi.org/10.1007/s42108-020-00084-3>.
- **Urom, O.O.**, Opara, A.I., Usen, O.S., Akiang, F.B., Isreal, H.O., Ibezim, J.O. and Akakuru, O.C. (2021). Electro-geohydraulic estimation of shallow aquifers of Owerri and environs, Southeastern Nigeria using multiple empirical resistivity equations. International Journal of Energy and Water Resources. <https://doi.org/10.1007/s42108-021-00122-8>.
- Opara, A.I., Ireaja, A.N., Eyankware, M.O., **Urom, O.O.**, Ikoru, D.O., Akakuru, O.C., Dioha, E, Omoko, N.E. (2023). A critical analysis of the comparative techniques of aquifer protective capacity studies in part of Southeastern Nigeria. International Journal of Energy and Water Resources. <https://doi.org/10.1007/s42108-023-00251-2>.

**PRESENTATIONS**

**Title:** Time-lapse monitoring of varying soil water saturation after precipitation using electromagnetic imaging

**Conference:** Geological Society of America (GSA) Conference at Grand Rapids Michigan on May 5, 2023

## **PROFESSIONAL AFFILIATIONS**

- Geological Society of America (GSA), 2023
- Nigerian Mining and Geosciences Society (NMGS), 2021
- Society for Exploration Geophysicists (SEG), 2022

## **HONORS, AWARDS, AND SCHOLARSHIPS**

- University of Toledo Department of Environmental Science Research grant (2023)
- Geological Society of America (GSA) Research Grant award (2023)
- Nigerian Mining and Geosciences Society (NMGS) best graduating student award (2019)
- School of Physical Sciences Dean's award (2017/2018) issued by the Federal University of Technology Owerri, Nigeria
- Addax Petroleum Plc undergraduate bursary award (2014-2018) for Nigerian universities
- Afikpo town Welfare Association Best mathematics student award (2000)

## **COMMUNITY SERVICE**

- Maumee valley Habitat for Humanity, Volunteer, 2022 till date.
- Redeemed Christian Church of God Toledo Food pantry, Volunteer, 2022 till date.
- Prime STEM Nigeria, Elementary School online coach, 2019-2022
- All Saints Chapel Federal University of Technology Owerri Nigeria, Academic coach, 2014 - 2018