

CHUKWUEMEKA OKAFOR

c.okafor@unn.edu.ng | +234-803-456-7890 | Enugu, Nigeria

researchgate.net/okafor | scholar.google.com/okafor

RESEARCH INTERESTS

Wastewater treatment systems • Constructed wetland technology • Low-cost environmental remediation for Sub-Saharan Africa
• Water-energy nexus in developing countries

EDUCATION

M.Sc. Environmental Engineering (First Class)

2020 – 2022

University of Nigeria, Nsukka

GPA: 4.8/5.0 (equivalent 3.9/4.0) | Thesis: 'Performance of Vetiver-Based Constructed Wetlands for Treating Abattoir Wastewater in Tropical Climates'

B.Eng. Civil Engineering (First Class Hons.)

2015 – 2020

University of Nigeria, Nsukka

CGPA: 4.72/5.0 | Ranked 2nd in class of 94 students | Best Graduating Student Award — Faculty of Engineering

PUBLICATIONS

- [1] Okafor C.E., Nwachukwu I., & Eze C. (2023). Nutrient removal efficiency of vetiver-based constructed wetlands treating abattoir wastewater: A tropical climate study. *Journal of Environmental Management*, 312, 114-923. [Q1, Impact Factor: 8.91]
- [2] Okafor C.E. & Obiora S. (2022). Low-cost wastewater treatment solutions for small-scale abattoirs in Sub-Saharan Africa: A systematic review. *Water Science and Technology*, 85(4), 1102–1118.
- [3] Okafor C.E. (2022). Constructed wetland performance under high organic loading in Nigerian tropical conditions. Proceedings of the 18th IWA World Water Congress, Copenhagen. [Peer-reviewed conference paper]

RESEARCH EXPERIENCE

Graduate Research Fellow — Water Research Group, University of Nigeria, Nsukka

2020 – 2022

- Designed and monitored 6 pilot-scale constructed wetland units over 18 months
- Collected and analysed 1,200+ water quality samples for BOD, COD, nitrogen, and phosphorus
- Supervised 3 final-year undergraduate research projects in environmental engineering

Research Assistant — UNICEF Nigeria WASH Programme, Enugu State Office

Jun – Dec 2021

- Conducted water quality assessments across 22 primary schools in Enugu State
- Co-authored field report on WASH infrastructure gaps submitted to Federal Ministry of Education

AWARDS & GRANTS

- Nigerian Society of Engineers (NSE) Young Engineer Award — 2023
- University of Nigeria Postgraduate Research Excellence Award — 2022
- TETFUND Individual Research Grant — NGN 1,200,000 (awarded 2022, completed 2023)
- Best Paper Award — Faculty of Engineering Annual Research Day, UNN — 2021

TECHNICAL SKILLS & LANGUAGES

Software: MATLAB | AutoCAD | QGIS | SPSS | R | Microsoft Project

Languages: English (IELTS 7.0) | Igbo (Native) | Yoruba (Basic) | German (A1 — Goethe Institut)

References available upon request.