

UZOR BLESSING NGOZI

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EDUCATION

AFRICAN INSTITUTE FOR MATHEMATICAL SCIENCES, Limbe, Cameroon

Aug 2025 – Present

Program: MSc Mathematical Sciences (*Data Science Major*)

DELTA STATE UNIVERSITY, Delta State, Nigeria

Dec 2020 – July 2024

Program: Bachelor of Science Education in Mathematics

Academic Standing (CGPA): 4.05/5.00 (Second Class Upper Division)

HONOURS AND AWARDS

- Mastercard Foundation Scholar - *Fully funded merit-based scholarship*, African Institute for Mathematical Sciences (2025)
- Federal Scholarship Board Award for Undergraduates, Federal Government of Nigeria (2024)
- Outstanding Student Award, National Association of Science Education Students (2024)
- Departmental Excellence List: Appeared 4 times for obtaining a GPA > 4.0
- Ndokwa Association in America Scholarship Award (2023): Awarded \$500 USD for academic excellence until graduation
- Monday Onyeme Foundation Scholarship Award (2023)
- Delta State Scholarship Board Award, Delta State Government (2021-2024), 4X Awardee
- DESOPADEC Bursary (2021/2022 Academic Session)

TEACHING EXPERIENCE

Teachers Registration Council of Nigeria (TRCN)

Certified Nigerian Teacher

- Ranked in top 1.5% of 1,182 inductees for the Teachers' Qualifying Examination at Delta State University. (2024)

Happiness the Great Tutorial, Abraka, Delta State

Sept 2024 – Aug 2025

Science Instructor (Full Time)

- Tutored Mathematics, Further Mathematics, Physics, and Computer Science to over 25 students.
- Prepared students for external examinations (Basic Certificate, Junior Secondary School Leaving, and West African Examinations Council).

Boys Secondary School, Obiaruku, Delta State

Sept 2023 – Nov 2023

Mathematics Student Teacher

- Tutored 50+ first year junior secondary school students.
- Supervised tests and examinations and assisted the head teacher in managing weekly school activities

Amazing Grace International School, Abraka, Delta State

Oct 2022 – Jan 2023

Mathematics Student Teacher

- Taught 60+ first-year junior students and prepared examination questions.
- Assessed student performance, recorded grades, and coordinated Friday JETS (Junior Engineers, Technicians, and Scientists) Club activities

Delta State University, Abraka, Delta State

Peer Tutor

- Provided academic support in Mathematics (Calculus, Trigonometry, Algebra) and Education courses.
- Conducted peer sessions to foster collaborative learning

RESEARCH EXPERIENCE, INTEREST AND PROJECTS

Research Interests: Student academic motivation; motivational beliefs; socioeconomic effects on motivation; Science and Mathematics Education; student achievement; Educational Technology.

Undergraduate Research Projects

Delta State University, Nigeria

Thesis: Perceived Factors Influencing Academic Performance of Mathematics Students in Ethiope East Local Government Area.

- Designed and executed a Descriptive Survey Study on 240 students across six senior secondary schools, employing a Random Sampling Technique and Validated Questionnaire for data collection.
- Conducted Hypothesis Testing to analyze the relationship between student performance and five key variables: Socio-economic Determinants (parental education/income), Teacher Quality Metrics (qualification/experience), and Cultural Background.

- Performed Statistical Correlation Analysis to evaluate the impact of Pedagogical Strategies (e.g., Blended Learning, Technology Integration) and classroom factors on academic outcomes.
- Formulated Evidence-Based Policy Recommendations for government and school administration focusing on Teacher Retention and supporting low-income families to enhance Educational Equity.

Undergraduate Seminar

Delta State University, Nigeria

Title: Enhancing effective mathematics education in Nigerian higher institutions: A case study of teachers' knowledge and student performance

- Conducted a Quantitative Study using Hypothesis Testing to evaluate the correlation between four variables (teacher experience, qualification, teaching practices, and class size) and student academic performance
- Utilized Statistical Correlation Analysis to challenge traditional assumptions, finding no significant relationship between teacher experience/qualification and student outcomes, urging focus on pedagogical strategy.
- Performed Technology Integration Assessment by surveying educators' adoption of Advanced Applications (MATLAB/GeoGebra) and Hands-on Learning methods in teaching mathematics.

International Centre for Applied Mathematical Modelling and Data Analytics

Gboko, Benue State, Nigeria

Group Project | June 2025

- Design Models to Optimize the Development of Vector Control Measures for Malaria in Benue State. (*Manuscript in preparation for submission*)

Python Project - Bank Interest Calculator With Investment Forecasting

Group Project | September 2025

- *Implemented financial functions and forecasting logic using Python (2025)*

Machine Learning Project - Neural Network Initialization

Group Project | November 2025

- Investigated how different neural network weight initialization methods affect training stability and model accuracy
- Compared techniques such as Xavier/Glorot, He initialization, Uniform vs Normal initialization.
- Implemented and evaluated models using Python and frameworks such as PyTorch
- Explored neural network initialization strategies to improve model stability and predictive performance in data-driven tasks.

ACADEMIC MEMBERSHIP AND AFFILIATIONS

Teachers Registration Council of Nigeria (TRCN)

Education Students Association of Nigeria (ESAN)

National Association of Science Education Students (NASES)

Federated Union of Ndokwa Students (FUNS)

COMMUNITY SERVICE, VOLUNTEER EXPERIENCE AND EXTRACURRICULAR ACTIVITIES

National Dropout Prevention Campaign (2024)

- Collaborated and actively participated with the Education Students Association in Benin City, Nigeria, to raise awareness on the dangers of school dropout in Nigeria and possible ways to reduce dropout rates.

Project 50 (2024)

- Contributed to achieving SDG 3, 4, 5, and 7. Collaborated with volunteers to build a resilient community focused on SDGs.
- Visited local schools to inspire students on gender equality and career goals.

Teen Connect by Gideon Augustus – Mathematics Competition (2024)

- Served as an organising committee member and fundraiser for the 2024 First Edition Mathematics Competition.
- Developed and provided mathematics questions and solutions for the competition.

Together Against Malaria and Typhoid Campaign (2024)

- Led a community health campaign, collaborating with healthcare professionals to provide education, treatment, and support
- Contributed to improving health outcomes in the community through awareness and intervention

WRAY Foundation – 90-Day Parental Education Awareness Volunteer (2023)

- Educated parents on strategies to improve child development and academic success.
- Promoted parental involvement in education and community for 90 days through the “Who Really Are You” Foundation.

Flood Relief Efforts, Delta State Red Cross Society (2024)

- Participated in fundraising campaigns to support flood relief efforts
- Helped raise awareness and support for people living in Asaba Delta State affected by the flood.

LEADERSHIP EXPERIENCE

President, Sports Club (Sports Delegate), AIMS Cameroon (2025)

- Elected by 108 peers from 18 African countries to lead and coordinate all student sports and fitness activities on campus.
- Advocated for athletes' welfare, including improved access to sports equipment and facilities.
- Represented the student body in discussions with the administration to strengthen sports culture and student engagement.

President, ReformED Club (2023)

- Improved educational outcomes for 10+ students through ReformED Club's initiatives at Boys Secondary School Obiaruku.
- Led ReformED Club, providing school supplies and English language support to 10+ students.

Founder, Educate Them All (ETA) Network (2023 - present)

- Launched "Keep Them in School" campaign, promoting education over child labor in local markets.
- Provided free academic support to Delta State University students, guiding course registration and promoting academic success.

Treasurer, Mathematics Education Students (2023-2024)

- Managed departmental funds, including budgeting for various activities and final-year projects.
- Maintained transparent financial records and provided periodic reports to the association.

Laboratory Prefect, Abraka Grammar School (2019-2020)

- Supervised operations across five laboratories: Biology, Chemistry, Agricultural Science, Physics, and Mathematics labs.
- Managed student relation to lab work and coordinated practical sessions.
- Reported lab conditions and maintenance to school management.

SKILLS

Personal Skills:

- Excellent writing, speaking, and communication skills
- Strong teamwork and collaboration abilities
- Excellent leadership and management skills
- Resilient, with strong problem-solving and critical-thinking abilities.
- Strong interpersonal skills

ICT Skills:

- Proficient in Python, R, Sagemath, Java, Javascript
- Machine Learning (TensorFlow, PyTorch, scikit-learn)
- Data Analysis & Statistics
- SQL & Database Management
- Data Visualization Tools
- Technical Writing & Documentation: LaTeX

Research Skills:

- Designing and executing surveys and questionnaires
- Regression, ANOVA, Correlation, Hypothesis Testing
- Mixed-methods research: quantitative and qualitative
- Experimental design and longitudinal data collection
- Data-driven policy recommendations and evidence-based reporting
- Computational modeling and algorithmic reasoning

LANGUAGE SPOKEN

English: Fluent (official language and medium of instruction in Nigeria)

French: Beginner

HOBBIES

Research and teaching, Public speaking, Advocating for SDGs, Sports, Volunteering.