

Godson Dela Ablordeppey

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ETAMU Math Department | PO Box 3011 | Commerce, TX 75429

EDUCATION

East Texas A&M University, Commerce, TX, USA *Aug 2026 – Present*
M.S. in Mathematics

WorldQuant University — Online *Jul 2025 – Present*
M.Sc. in Financial Engineering

WorldQuant University — Online *2023 – 2024*
Applied Data Science Lab

Kwame Nkrumah University of Science and Technology, Kumasi, Ghana *Sept 2019 – Aug 2023*
B.Sc. in Mathematics

RESEARCH & PUBLICATIONS

Owusu, R., **Ablordeppey, G. D.**, Nakyeng, P., Fosu, G. O., & Awashie, G. E. “*Finite Element Analysis of Different Pressure Field Initializations for the New Macro-Scale Transport Model for Fractured Porous Domains.*”
GEM — International Journal on Geomathematics (under review).

Owusu, R., Nakyeng, P., **Ablordeppey, G. D.**, Fosu, G. O., & Awashie, G. E. “*A Harmonic-Averaged Matrix-Fracture Transfer Model under Equilibrium and Dynamic Capillarity.*”
Journal of Hydrology (Under review).

PROFESSIONAL & TEACHING EXPERIENCE

Kwame Nkrumah University of Science and Technology, Department of Mathematics *Nov 2023 – Jan 2025*
Teaching Assistant

- Led classroom instruction: facilitated discussions and tutorials that reinforced lecture concepts and provided additional explanations.
- Prepared instructional materials: developed practice problems, study guides, and collaborated on lecture materials and exams.
- Mentored students on academic and career-related matters, offering guidance in mathematics.
- Contributed to improvements in course materials and to ongoing research projects, strengthening research and organizational skills.
- Implemented innovative teaching methods and received positive feedback from students.

Ghana Ports and Harbors Authority, Statistical Unit and Vessel Terminal Operations Unit *Oct 2022 – Dec 2022*
Data Scientist Intern

- Analyzed data from various departments to optimize vessel terminal operations, refining time ranges for faster analysis and developing optimal in-day schedules that significantly enhanced overall efficiency.

ACADEMIC PROJECTS

Machine Learning Control — Final Year Thesis

Jan 2023 – Aug 2023

- Applied supervised machine learning, Python (scikit-learn), big data concepts, optimal control theory, and data analysis/cleaning techniques to develop a machine learning model for inventory management as a final-year capstone project.

Combinatorial Optimization — Knapsack Problem

Jan 2023 – Jul 2023

- Developed a dynamic programming solution to the knapsack problem, optimizing resource allocation in a constrained environment.

LEADERSHIP & SERVICE

School Chaplaincy Council (SCC), Ushering — KNUST

Sept 2022 – Aug 2023

Treasurer

- Oversaw the collection of funds, managed finances, and accounted for money collected during services, along with matters related to SCC ushering at KNUST.

Global Evangelical Students and Associates' Ministry (GESAM) — KNUST

Aug 2022 – Sep 2023

Financial Secretary

- Managed financial operations for GESAM-KNUST, overseeing fund collection, maintaining accounts, preparing financial statements, and assisting the treasurer with other finance-related matters.

Sogakope Senior High School

2017 – 2018 Academic Year

House Prefect

- Provided leadership and enforced discipline within the house, acted as a liaison between house members and the school administration, and organized house activities while mentoring junior students.

TECHNICAL SKILLS

Programming & Tools: Python, MATLAB, C, LaTeX, Arduino, Microsoft Office, Photoshop (Amateur)

Data Science: Machine Learning, Data Analysis, Research Methods

Other: Teaching skills

LANGUAGES

English: Fluent | Ewe: Fluent

REFERENCES

Prof. Joseph Abeiku Ackora-Prah

Associate Professor, Final Year Project Supervisor

Department of Mathematics, Kwame Nkrumah University of Science and Technology

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Dr. Gabriel Obed Fosu

Senior Lecturer, Teaching Assistant Supervisor

Department of Mathematics, Kwame Nkrumah University of Science and Technology

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Dr. Richard Owusu

Lecturer, Teaching Assistant Supervisor

Department of Mathematics, Kwame Nkrumah University of Science and Technology

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