

Prince Asumadu | Résumé

Ayigya – Kumasi – Ghana

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Education

Kwame Nkrumah University of Science and Technology

Ghana

BSc. Mathematics

09/2019 – 11/2023

- **GPA:** (73.61/100.00)
- Relevant Coursework: Real/Complex/Functional/Numerical Analysis, Differential/Integral Equations, PDE, Optimization, Scientific Computing, etc.

Experience

Research

Dynamic Evacuation Plan for A Building Complex Using Network Optimization

Supervisor: Prof. Peter Amoako-Yirenkyi

Undergraduate Thesis, 04/2023 – 08/2023

- Developed a "dynamic" and "static" optimization model that combines to find the shortest path to an exit from a given location in a building, avoiding paths that are blocked by certain hazards during an emergency.
- Tested the model on the Aboagye Menyah Complex, a building in KNUST, Ghana.
- Run multiple simulations to test the model's efficiency.

Research Assistant

National Institute for Mathematical Sciences, Ghana

Supervisor: Mr. Evander Nana Bosomefi Eghan

10/2023 – Present

- Assisting with research on industrial modeling.

Teaching

Teaching Assistant

KNUST, Ghana

Instructor: Prof. Peter Amoako-Yirenkyi

10/2023 – Present

- Scientific Computing, PDE, Differential Equations.

Volunteer Substitute Teacher

Kumasi Academy, Ghana

Substituted for: Mr. Kenndy Kamkam

08/2019 – 09/2019

- Taught Elective Mathematics Class

Internships

Ghana Ports and Harbor Authority

Tema, Ghana

Intern

10/2022 – 12/2022

IT Department

- Monitored network servers and assisted in solving network issue include fiber optics.
- Provided technical support to employees of other departments.

Manhyia Hospital

Intern

Research Department

- Conducted weekly surveys on childbirth at the hospital, analyzed data and wrote report on findings.
- Reported detailed weekly findings to supervisor.
- Conducted research on patient and employee satisfaction at the hospital.

Kumasi, Ghana

09/2021 – 11/2021

Skills

- **Programming:** C, Python, R, MATLAB, MPI, LaTeX, Bash Scripting, GIT CLI
- **Language:** English, Twi
- **Software:** SPSS

Interests

Research

- Scientific Computing
- High Performance Computing
- Numerical Analysis
- Optimization Modeling

Other

- Computer Hardware
- AI (Artificial Intelligence)
- Programming
- Japanese Language

Conferences / Training

- **High Performance Computing for Sustainable Development:** April 2023
- **Deep Learning Indaba:** September 2023
- **Data Science Change Workshop: Uniting Academia & Industry:** December 2023