

Kate Osei-Poku

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Education

TEXAS A&M UNIVERSITY-COMMERCE (TAMUC) | COMMERCE, TEXAS-USA

AUGUST 2024 – PRESENT

- Master of Science in Mathematics.

KWAME NKRUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY (KNUST) | GHANA

AUGUST 2018 – SEPTEMBER 2022

- Bachelor of Science in Actuarial Science – Second Class Honors (Upper Division)
- Relevant Coursework: Calculus (I, II, III), Linear Algebra, Discrete Mathematics, Probability and Statistics, Real Analysis, Numerical Analysis, Mathematical Programming, Partial Differential equations, Stochastic Processes, etc.
- GPA: 3.48/4.0.

Research Interest

The application of mathematical methods to improve efficiency in the insurance and finance industries.

Skills

- MATLAB, R & PYTHON Programming Languages
- Data Analysis and Interpretation
- LaTeX Software
- Microsoft Office Suite.

Professional Experience

GRADUATE TEACHING ASSISTANT | TEXAS A&M UNIVERSITY-COMMERCE | COMMERCE-TEXAS

AUGUST 2024 – PRESENT

- Teach Foundations of Math for Non-STEM & Calculus II to college students
- Assist in tutoring, grading homework, quizzes, activities and projects, etc

ASSISTANT CLIENTS' RELATIONS OFFICER | ENTERPRISE INSURANCE COMPANY | KUMASI – GHANA | NOVEMBER 2022 – OCTOBER 2023

- Designed a Microsoft Excel template for the purpose of General Insurance Pricing; this template remains useful today
- Perfected communications skills in my relations with clients and coworkers
- Purchased and renewed over twenty (20) insurance policies **daily** for both new and pre-existing clients.

GENERAL INTERN | NEW GENERATION INVESTMENT SERVICES (NGIS) | KUMASI – GHANA | SEPTEMBER 2021 - DECEMBER 2021

- Updated the Mutual Fund and Money Market Fund share prices daily, per the changes on the Ghana Stock Exchange Market (GSE)

- Transferred over 200 clients' data onto the company's online platform, under the manager's supervision

GENERAL INTERN | AMANANO RURAL BANK | KUMASI – GHANA | JULY 2019 – AUGUST 2019

- Assisted new clients in filling out account opening forms
- Assisted the operations manager with bill payments, records organization and other office duties to support financial operations
- Assisted in the bank's administrative work.

Research Experience

UNDERGRADUATE RESEARCH | JANUARY 2022 - AUGUST 2022

TOPIC: SURVIVAL ANALYSIS OF LUNG CANCER PATIENTS UNDERGOING CHEMOTHERAPY TREATMENT.

- Obtained the data of 299 lung cancer patients admitted to the Komfo Anokye Teaching Hospital (KATH – Ghana), over a span of five (5) years and filtered the data to only include the number of patients who had been administered chemotherapy treatment
- Utilized R programming language in the calculation of the various Kaplan Meier and Nelson Aalen Estimates, over the period of study also obtaining a graphical representation of the survival and mortality rates
- Successfully analyzed the graph and drew candid conclusions on the effect of chemotherapy on the survival rate of lung cancer patients
- The LaTeX software was used in the preparation and presentation of this research study.

Leadership Experience

**WOMEN'S COMMISSIONER |ACTUARIAL SCIENCE STUDENTS ASSOCIATION OF GHANA
JANUARY 2020 – JUNE 2021**

- Led outreaches to a total of five senior high schools, three mixed-gender schools and two girl schools to organize a series of seminars to largely discuss the benefits of pursuing STEM programs in the university.
- Provide mentorship to a total of eight (8) individuals as a result.

Volunteer Experience

**MENTOR AND TUTOR |ACTUARIAL SCIENCE STUDENTS ASSOCIATION (KNUST)
MARCH 2020 – SEPTEMBER 2022**

- Mentored five (5) juniors yearly, providing them with the necessary guidance on how to navigate the various course outlines to achieve the best results, using my experiences as a practical teaching tool
- Tutored these students in courses such as Calculus, Probability, Mathematical Models in Finance and Numerical Analysis.

**ASSISTANT TUTOR |ST. LOUIS (GIRLS) SENIOR HIGH SCHOOL |KUMASI-GHANA
JUNE 2021 - AUGUST 2021 (WEEKENDS)**

- Tutored beginner courses in Calculus and Probability
- Inspired and encouraged students to pursue careers in STEM.

Certificates

- Certificate of Excellence at First Choice Computer School (Kumasi-Ghana)
- Certificate of Leadership in Actuarial Science Students Association of Ghana (ASSAG)
- Certificate of Participation in the Actuarial Science Students Association Mentorship Scheme (ASSA-KNUST).