AGYEI ERIC

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EDUCATION

Texas State University (TXST) **Aug 2025 - Present**

Master of Science in Mathematics (Applied Mathematics)

University of Cape Coast(UCC), Cape Coast **Aug 2020 - Aug 2024**

Bachelor of Science in Mathematics with Economics

Juaben Senior High School **Sept 2017 - Aug 2020**

RESEARCH INTEREST

- Numerical PDE
- Scientific Computing
- Mathematical Modeling
- Financial Mathematics

AWARDS

Texas State University, Department of Mathematics

- Ross and Sarah Wayment Endowed Scholarship **2026**

Texas State University, Graduate College

- Dreeben Merit Fellowship **2025, 2026**

University of Cape Coast, School of Physical Sciences

- Dean's Academic Excellence First-class Award, **2021, 2022 & 2023**

Ghana Education Service, Ejisu Municipal

- Winning an Essay Writing Competition Award **2019**

WORK EXPERIENCE

Department of Mathematics, TXST

Graduate Teaching Assistant **Aug 2026 – Present**

- Teach MATH 1316 (Survey of Contemporary Mathematics) as Instructor of Record, delivering instruction and developing students' mathematical reasoning and problem-solving skills.
- Develop and facilitate lectures, assessments, and course activities while fostering an engaging and supportive learning environment.

Graduate Instructional Assistant **Aug 2025 – May 2026**

- Assist and support student learning in MATH 2471 (Calculus I) by providing clear explanations and simplifying complex concepts during laboratory activities.
- Design and prepare conceptual questions for lab sessions aimed at enhancing students' mathematical reasoning and problem-solving skills.

Department of Mathematics, UCC

Teaching Assistant **Sept 2024- Aug 2025**

- Assisted in teaching Advanced Calculus, Real Analysis, Ordinary and Partial Differential Equations, Numerical Analysis, Complex Analysis and Abstract Algebra.
- Invigilated quizzes and grading examination papers in the mathematics department.

Intern

Hollard Life Assurance -Kumasi **Sept 2023 – Oct 2023**

- Visualized the performance of sales teams using Microsoft Excel.
- Assisted in managing client details and monitoring the financial status of over 500 clients.

LEADERSHIP EXPERIENCE

Educational Committee Member

Mathematics Students Association of Ghana (MASAG), UCC **Nov 2023 - Jul 2024**

- Organized tutorials for students at lower levels to explain various mathematical concepts with examples

President, Treasurer

Christian Youth and Student Network (CYSN), UCC. **Aug 2021 - July 2023**

- Led and coordinated programs while supporting students' personal development.
- Managed financial administration, including procedures and financial reporting.

SRC Public Relation Officer

Juaben Senior High School **May 2019 - Jun 2020**

- Public speaking at Presentations and representing the school at different events

SEMINARS ATTENDED

- *"An Unstable Parabolic Problem"* Mark Allen (Brigham Young University)**,** DEAM Seminar, Texas State University, 2025**.**
- *"The Gelfand Problem for the Infinity Laplacian*," Fernando Charro (Wayne State University)**,** DEAM Seminar, Texas State University, 2025.
- *"Parametric Mollification of C^1 Planar Curves and Constant Curvature Invariance*" John McCuan (Georgia Institute of Technology), DEAM Seminar, Texas State University, 2025.

SKILLS

- Programming; Python**,** Matlab,FEniCs
- Typesetting & Tools; Microsoft Office Suite**,** LaTex (Overleaf)
- Language; English (Native)

AFFILIATIONS

- American Mathematical Society (AMS)
- Pi Mu Epsilon (Math Honor Society)
- Society for Industrial and Applied Mathematics (SIAM)

VOLUNTEER ACTIVITIES

- Executive Member of MerbsConnect Association for mentorship programs
- Calculus I Bootcamp