

Stephen Maranatha Asiedu

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EDUCATION

KING'S COLLEGE LONDON.

Ph.D in Computer Science

Researching Causal Machine Learning for Genomics

Feb 2024 - present

IMPERIAL COLLEGE LONDON.

Visiting Researcher

Nov 2024 - present

KWAME NKRUMAH UNIVERSITY OF SCIENCE & TECHNOLOGY

BSc. Mathematics (First Class Honors).

2018 – 2022

RESEARCH EXPERIENCE

Submitting Paper to NeurIPS 2025 Frontiers in Probabilistic Inference Workshop

Title: Ask Your Nearest Ancestors: A Scalable Divide-and-Conquer Causal Approach

- To be presented in San Diego, December 2025

Paper accepted at ICLR 2025 workshop [ML for Genomics]

Title: [Multi-omic Causal Discovery using Genotypes and Gene Expression.](#)

- Presented at ICLR 2025 in Singapore, April 2025

UKRI CDT in SAFE AND TRUSTED AI

Oct 2024 - present

Aligned Doctoral Student

- Ensuring that AI research is safe, up to standard and trustworthy in the UK and beyond
- [View my STAI profile](#)

Undergraduate Research Experience for Mathematics Students (KNUST)

Topic: *Real-time Traffic Density Estimation for Dynamic Traffic Lights*

2021 - 2022

Wait-Time using Machine Learning. (Python)

- Used Machine Learning to implement Road user tracking and density estimation
- Selected and presented at Ghana Data Science Summit (IndabaX 2022)
- Won a Google Travel grant from this project

WORK EXPERIENCES

Computing Lecturer

Solent University - London (QA Higher Education)

July 2025 - present

- Assist in the delivery and assessment of computer science undergraduate modules in Machine learning and full-stack web development.

Computer Science Tutor

Scholars Programme at the Brilliant Club**2024- 2025**

- Developed and delivered a key stage 4 programme at *Trinity School Sevenoak & Eltham Hill School*
- Delivered a key stage 3 programme at *Orchard Park High School & Prendergast Ladywell School*

Mathematics Tutor**Make Your Mark (MYM) at the Harris Garrard Academy, Thamesmead****2025**

- Delivering a pre-designed tutorial for high school students in Foundational Mathematics

A-level AQA Computer Science tutor**Upward Tuition London.****2024 - present**

- Provide a one-on-one weekend tutorial and prepping for an A-level student

Research and Teaching Assistant**Kwame Nkrumah University of Science and Technology****2022 – 2023**

- Assisted undergraduate students in Differential Equations & Scientific Computing
- Assisted in various types of research and collaborations with the Dept. of Mathematics, KNUST

Software Developer***Adept GH*****2023**

- Developed and managed educational and business software for clients

Private Programming Tutor***Freelancer*****2021 – 2023**

- Prepared and taught foundational programming lessons (Scratch, HTML) to young adults

Advisory Board Member**Ghana Library Authority's Youth Engagement Center**

- Responsible for designing and planning youth-centred empowerment and training

2022***Website Developer & Research Assistant.*****World Analytics**

- Responsible for branding, designing, and writing codes for Clients
- Assisting clients with various kinds of research in Mathematics and Computer Science

2021 – 2022**LEADERSHIP*****Editor-in-Chief***

Association of Mathematics Students (AMS) KNUST.

2020 – 2021***Member***

Cube Robotics, Kumasi

2018 – 2019***Hall Representative***

National Union of Ghanaian Students, KNUST (Republic Hall)

2018 – 2019***Hardware Team Lead***

Ghana Robotics Academy Foundation, Apam Senior High

2015 - 2016**AWARDS AND ACHIEVEMENTS**

- 3rd Place, [Fetch AI Hackathon by Moderna and Imperial IX](#)
- 13th in [Deep Learning Indaba 2023](#) ML for Genomics Hackathon
- Google Travel Grants at Ghana Data Science Summit IndabaX 2022

December 2024**September, 2023****September, 2022**

- Best in Show & Most Collaborative Team at **CodeDay Kumasi**, Ghana August, 2022
- Host, **'Mathematics 4 What' Conference** at KNUST July, 2021
- Contestant, Association of Mathematics and Statistics **Interdepartmental Quiz** February, 2020
- Contestant, Revelio Media's **Tek-Smartest inter-Hall Competition**, KNUST April, 2019
- Ghana National Petroleum Corporation (GNPC) Foundation Scholarship February, 2019
- **Robo-Prime Credentials** at Robotics Inspired Science Education (RiSE) Bootcamp August, 2015
- Best English Essay, **Child's Eye Magazine** November, 2012

TECHNICAL SKILLS

Programming Languages: R, Python, Bash, JavaScript

Other frameworks: Bootstrap, Django, Flutter

Operating Systems: Linux (Ubuntu OS), Windows

Others: CMS (Drupal), Database (PostgreSQL), HTML, CSS, PhotoShop, UI/UX,

VOLUNTEER WORKS

- Co-organiser, DAI biweekly research seminars Nov, 2024
- Scientific Paper Reviewer, NeurIPS 2024 July, 2024
- Registrations Volunteer, Deep Learning Indaba September, 2023
- Volunteer for Global Handwashing Advocacy with the Rural Water Development Programme October, 2022
- Volunteered with Black Code Foundation to train and mentor website developers July, 2022
- Mathematics Teacher Volunteer at Ayeduae Government-Owned Schools to motivate and drive away the fear of Mathematics in young people July, 2021
- Volunteered for Kids and Math Foundation to help children learn Math in and with fun May, 2019

BOOTCAMPS AND CONFERENCES (few selected)

- International Conference on Learning Representation April, 2025
- Ghana Data Science Summit IndabaX 2022 August, 2022
- Financial Literacy for Entrepreneurs by GIZ Ghana July, 2022
- Youth Code Ghana Bootcamp by AmaliTech June, 2022
- International Leadership Foundation Seminar, 2018 November, 2018