Ethel Elikem Afi Mensah

Scientific Researcher



Contact Info



Campus E 1.7, R 3.03 66123 Saarbrücken



+49 0681 302 70786



mensah@cs.uni-saarland.de

Key Competencies

Programming languages: Python, SQL

Data skills: Extraction, Mining, Analysis

and Processing
GeoSpatial: QGIS

Personal Info

Date of Birth: 27.02.1998

Nationality: Ghanaian

Honors

MasterCard Foundation Scholarship Fully-Funded Scholarship to Pursue Master's Degree (AIMS Rwanda) 08/2021 – 06/2022

Integrity Award AIMS Rwanda 06/2022

PROFILE

I am an early-career researcher passionate about the intersection of computational methods and social equity. My work explores how location based online services, such as Google Maps, reflect and reinforce social patterns of segregation, access, and representation in urban environments. By combining geospatial data, online trace data, and demographic analysis, I aim to produce insights that can inform ethical AI design, inclusive policy, and community-focused interventions.

Research Interests: Societal Computing, Urban Informatics, Digital trace data

EDUCATION

Saarland University

PhD Preparatory Phase

Major Courses:

Artificial intelligence

- Data Networks
- Data Science
- Algorithm and Data Structures

African Institute for Mathematical Sciences (AIMS)

Master in Mathematical Sciences (Data Science)

CGPA: Distinction

Thesis: Time-dependent Route Optimization for a Public

Bus in a City Area

modelled a time-dependent bi-criteria bus routing problem to find optimal paths for a bus from an origin to a destination in a road network and produced a thesis in partial fulfilment of my master's degree under the supervision of Professor Pu Li of the Technical University of Ilmenau, Germany.

University of Ghana, UG

Bachelor in Economics and Mathematics

CGPA: 3.53/4.0

Thesis: An Introduction to Evolutionary Game Theory: Replicator Dynamics in 2x2 Symmetric Games
Studied Replicator Dynamics as a model to predict the evolutionary stability of strategies in two-by-two symmetric games my bachelor's degree thesis.

PUBLICATIONS

International AAAI Conference on Web and Social Media

Mensah, E. E., Cannanure, V. K., & Weber, I. (2025). Ethnic Diversity and Spatial Dynamics in Google Maps Reviews: Insights from a German Border City. ICWSM 2025.

https://doi.org/10.1609/icwsm.v19i1.35964

06/2025

Since 10/2023

08/2021-06/2022

09/2016 -

07/2020

Ethel Elikem Afi Mensah

Scientific Researcher



References

Prof. Ingmar Weber AvH Professor for Al @ Saarland University



iweber@cs.uni-saarland.de

Dr. D.S.c Abebe Geletu German Research Chair @ AIMS Rwanda



abebe.geletu@aims.ac.rw

Certificates

ALX and Udacity

Certificate: Data Analyst Nanodegree 05/2022-07/2022

European School of Management and Training, ESMT Berlin (2022) Certificate: Business Management 07/2022

WORK EXPERIENCE

Interdisciplinary Institute for Societal Computing Scientific Researcher

Work with Location Based Online Services, such Google Maps for analysis of social phenomena

- Collaborate with social scientists and data engineers to explore ethical questions in platform-based urban data
- Collaborations with relevant Stakeholders in various Sectors to produce Transformative Research

Ishango.ai

Data Scientist

- Analyzed Sensor Data
- Gained Insights into creating Anomaly Detection Models using AWS Tools and Python Libraries

10/2022 -09/2023

09/2020 -

08/2021

Since 10/2023

Department of Mathematics, UG

Teaching Assistant

- Development of Comprehensive Learning Materials using Office 365 and LaTeX
- Assistance in Exam Invigilation and Grading
- Leading tailored Tutorial Sessions to address Students' Unique Needs in understanding Mathematical Concepts

03/2020 -07/2020

West Africa Secondary School Certificate Examination (WASSCE) and International General Certificate of Secondary Education (IGCSE), Ghana

Part-time Mathematics Tutor

- One-on-one tuition for test-takers
- Achieved a 100% success rate where students had failed a couple of times in the past
- Utilized Montessori-based tutoring to simplify Calculus I for students

Ernst and Young, Ghana

Assurance Intern

- Organized 300 plus physical and digital files to facilitate faster referrals and reduce retrieval time by more than 80%
- · Aided a company delegation for client audit
- Used Excel for Data Manipulation and Review to generate Results for large Data Entries
- Learned E&Y's customized Auditing Packages

Ministry of Finance and Economic Planning, MoF Ghana

06/2018 -07/12018

Tax Policy Intern

- Served on the Organizing Board for the 2018 Africa Initiative Tax Conference with the OECD
- Documented Reports and Tax Exemption Procedures
- Performed Administrative Duties with Efficiency, leading to high Employer Satisfaction and a Second-Term Contract Offer

07/2019