

Elizabeth Cornell Awuku

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Website: <https://cornell-ku.github.io/>

Education

05/2022 – 08/2022

Certificate in Business Management

EMST BERLIN (Industry Immersion Africa)

2021 – 2022

Msc in Mathematical Science at African Institute for Mathematical Sciences , Ghana

- Focus on Network Theory Application on Neuroscience
- Thesis: Pagerank, Centrality and the Brain

2016 – 2020

Bsc in Mathematics with Economics at University of Cape Coast, Ghana

Practical Experience

04/2023 – 09/2023

Pre-Doctoral Intern at the Bernstein Center for Computational Neuroscience Berlin, Sprekeler Lab , Berlin, Germany

Website: <https://www.sprekelerlab.org/team/>

- Engaged in a six-month computational neuroscience research project that explored the relationship between low-rank structures and E-I connectivity in recurrent neural networks

12/06/2023 – 24/06/2023

Teaching Assistant at TReND in Africa , Ghana

- Taught African students and young researchers the basics of computational neuroscience and machine learning

09/2020 – 12/2021

Research and Personal Assistant at the Women In Statistics (WISStats) Ghana

Website: <https://wistatsghana.org/about-us/>

- Contributed to the preparation of grant proposals for Ghana's maiden national tertiary statistics (NTS) quiz and assisted with administrative tasks as needed
- Assisted in the design and execution of projects including data collection and analysis

09/2020 – 08/2021

University Teaching Assistant at University of Cape Coast, Department of statistics, Ghana

- Assisted in teaching Introduction to statistics and probability, research methods and stochastic analysis
- Supported students in using relevant software such as SPSS

Presentations

- 2022 **The Beauty of Limited Neural Data (Decoding locomotion in *C. elegans*)**
- Main project presentation at IBRO-Simons Computational Neuroscience Imbizo

Awards and Scholarships

- 2023 **Pre-doctoral Internship Grant** (Bernstein Center for Computational Neuroscience Berlin), Germany
- 2022 **ISICNI Scholarship Award** (IBRO-Simons Computational Neuroscience Imbizo), South Africa
- 2021 **Masters Scholarship Award** (African Institute for Mathematical Sciences), Ghana

Networks and Memberships

- 08/2023 – Current **Bernstein Network Computational Neuroscience**
- 09/2022 - Current **IBRO-Simons Computational Neuroscience Imbizo Network**

Skills

- Proficient in SPSS , Python(Machine learning libraries: JAX, TensorFlow and PyTorch)
- Proficient in Data gathering, Visualisation and Processing
- Canva Business model

Volunteering

- 2021 – Current **AIMS Girls in Mathematical Sciences Programme (GMSP)** ,Ghana
- Mentoring young female students who have interest in science related fields
- 26/09/2023 – 29/09/2023 **Bernstein Conference 2023 Organizational Team**, Germany
- Collaborated with the organizational team to successfully execute Bernstein conference 2023 by performing various assigned tasks such as technical support
- 24/06/2023 – 24/06/2023 **Soapbox Science Berlin** , Germany
- Assisted renowned women in science share science to the general public at Potsdam in Berlin

Social Activities

- 12/2019 – Current **Annual Community Service (Early Smile Foundation)** Founder of an initiative in Ghana that gives back to the community through charity work and science website: <https://cornell-ku.github.io/PROJECTS.html>