Seun Eisape

Machine Learning, Brain Computer Interfaces, Cognitive Science, Natural language processing
eisape@berkeley.edu

Education

2024 – 2029 University of California, Berkeley, Ph.D. Electrical Engineering & Computer Science
Advisor: Alane Suhr

2020 – 2024 Haverford College, B.S. Computer Science
Advisors: Daniel Grodner, Alvin Grissom II, Xiaodong Qu, Joshua Hartshorne

Research

2024 – **Johns Hopkins University, Visiting Research Scholar**
- Visiting Researcher at the SCALE'24 workshop, held at the Human Language Technology Center of Excellence. Created multimodal information retrieval pipelines for video. Research supported by the GEM Fellowship.

2022 – **Swarthmore College**, **Cognitive Science/Semantics Lab**
- Constructed computational models of cognition. Conducted large-scale web experiments using the, Java-based, PCIbex framework. Research supported by a $6,000 grant from the KINSC/Velay fellows program.
- Conducted electroencephalogram (EEG) data collection to investigate the neural processing of the singular 'they/them' pronouns.

2023 – **Swarthmore College**, **Brain Computer Interfaces Lab**
- Developing methods to improve generalization performance of computational neuroscience tools with an emphasis on pre-training and electroencephalogram (EEG) data. Research funded by $3,000 Chesick Scholar Grant.

2022 – **Haverford College**, **Machine Learning Lab**
- Train transformers for machine translation. Developed novel ablation study to research capabilities of large machine translation models.

2021 – 2021 **Boston College, Language Learning Lab**
- Developed a Wiktionary data scraper, amassing 1-million nouns across 80+ languages enabling a clustering analysis over Swadesh lists. Work supported by BUCLD travel fellowship.

Employment

2023 – **Ask Media Group, Machine Learning**
- Worked with Ask's Data Science team, implementing GPT-3 and Llama2 (LLM's) to rectify the spelling of 100 million+ search queries. Conducted a clustering analysis of these queries to gain user insight. This internship includes a $5,000 academic stipend.

2022 – 2022 **Angi, Software Engineering**
- Worked with Angi's Third Party Integrations team securing web forms to ensure data integrity. I also worked revamp their careers page, increasing traffic by 25%. This internship includes a $15,000 academic stipend.

2023 –	**Peetey Greene (Philadelphia Chapter), Discrete Math Tutor**
	• Tutor currently incarcerated people in discrete math, including logic, algorithms, and probability theory. supporting the continuation of students obtaining their Bachelors Degree.
2022 –	**Haverford College, Technician Manager**
	• Manage staff of 25+ providing sound/lighting engineering, for major campus events.
2023 –	**Haverford College, Teaching Assistant**
	• TA for data science (CS260) & introduction to computer science (CS105).
	Haverford College, Admissions Office
2020 –	• Work for the Access and Diversity team

Skills

Python, MATLAB, JavaScript, Java, HTML, C++, NLTK, Pytorch, Tensorflow, and Scikit-learn.