

# Seun Eisape

Machine Learning, Brain Computer Interfaces, Cognitive Science, Natural language processing  
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## Education

- 2024 – 2029    **University of California, Berkeley, Ph.D. Electrical Engineering & Computer Science**  
Advisors: Jack Gallant, 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).

## **Skills**

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