# Seun Eisape

Machine Learning, Brain Computer Interfaces, Cognitive Science, Natural language processing seisape@haverford.edu

## 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.