

ELIJAH SANDLER

elijah.sandler@gmail.com | (857) 352-9475 | Brookline, MA | elijahsandler.com

Available July 2025 - December 2025

EDUCATION and ACADEMIC HONORS

Northeastern University, Boston, MA | Khoury College of Computer Sciences Sept 2022 - Present
Candidate for B.S. in Data Science and Philosophy Expected Graduation Dec. 2026

Honors: GPA: 3.89/4.0 | Dean's List, All Semesters
Relevant Coursework: AI & Machine Learning, Algorithms & Data Structures, Database Design, Information Presentation, Information Storage & Retrieval, Linear Algebra, Statistics
AI Ethics, Evolutionary Games, Philosophy of Science, Technology & Human Values
International Program: [England and the Scientific Revolutions](#), London, UK July 2023
Activities: AI and Data Ethics Working Group, Ultimate Frisbee Team

TECHNICAL SKILLS

Languages: *Proficiency in Python, SQL | Familiarity with C++*
Libraries and Tools: BeautifulSoup, Git, Jupyter, NumPy, scikit-learn, TensorFlow, Flask API, BigQuery

WORK EXPERIENCE

Teaching Assistant - Ethics and Evolutionary Games | Northeastern University, *Boston, MA* Jan. 2025 - Present

- Assisted instructor with course planning, syllabus design, and content development for a game theory course.
- Mentor students and evaluate students' math and ethics-driven projects.

Data Visualization and Management Co-op | Network Science Institute, *Portland, ME* Sept. 2024 - Dec. 2024

- Designed, developed, and published the [epidemic-intelligence](#) Python package for Northeastern's Network Science Institute.
- Created user-friendly methods for processing and visualizing large-scale network simulation data on BigQuery
- Participated in network science research groups and meetings.

Teaching Assistant - Ethics of Technology | Northeastern University, *Boston, MA* July 2024

- Worked as TA for an introductory level ethics course for high school students.
- Independently planned and taught lesson on game theory and its applications to modern technology.

Research Assistant - Philosophy of Technology | Northeastern University, *Boston, MA* Sept. 2023 - Dec. 2023

- Conducted literature review for a research project on the simulation hypothesis.
- Updated project research team on extent of existing technical and philosophical literature.
- Advised research team on feasibility and direction of project.

Machine Learning Methods Research | Northeastern University, *Boston, MA* Aug. 2023 - Apr. 2024

- Won PEAK award research grant from Northeastern University's Office of the Provost.
- Researched and applied novel machine learning methods for variables with low sample size and high variance.

Ultimate Frisbee Coach | Brookline High School, *Brookline, MA* Mar. 2023 - Present

- Coach Brookline High School Boys JV Ultimate Frisbee team.
- Responsible for running JV program, including scheduling, training, communication, and logistics.

ADDITIONAL PROJECTS

NBA Elo Ratings | Python Dec. 2023 - Present

- Implemented a weighted Elo algorithm to calculate NBA team strengths and produce dynamic visualizations, as well as predict the most likely playoff outcomes.
- Identified and analyzed discrepancies with other popular metrics of NBA team strength.

Predator-Prey Simulation | C++, Python Nov. 2023 - Dec. 2023

- Used object oriented programming to illustrate dynamics between predator and prey populations.
- Stored simulation data, which was displayed via static and animated graphs.

Evolutionary Ethics Simulation | Python Oct. 2023 - Dec. 2023

- Used TensorFlow to build a neural network to explore the Lewis signalling game as a model of the minimal conditions for the evolution of meaning.
- Successfully validated hypothesis and demonstrated significance of the findings.

INTERESTS

Outdoors/Sports: Camping, Chess, Soccer, Basketball, Fencing, Hiking, Motorsports, Ultimate Frisbee
Miscellaneous: Reading, Role-Playing Games, Simulation and Strategy Games, Urban Planning, Writing