

# Ellery Stahler

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## Education

### **Massachusetts Institute of Technology (MIT)**

Cambridge, MA

*B.S. in AI and Decision Making and Mathematics (4.8 GPA)*

*expected 2025*

*Master of Engineering in Electrical Engineering and Computer Science*

*expected 2026*

**Relevant Coursework:** Stochastic Processes; Design and Analysis of Algorithms; Causal Inference;

AI, Representation, and Reasoning; Computer Vision; Machine Learning; Fundamentals of Programming;

Linear Algebra; Theory of Computation; Probability and Random Variables; Computational Cognitive Science

*In Progress:* Deep learning; Multiagent learning; Sublinear Time Algorithms

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## Skills

Python: *Intermediate*

Algorithms and Data Structures: *Intermediate*

Mathematical Modeling: *Intermediate*

Complex Problem Solving

Communication & Public Speaking

Adaptability

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## Experience

**Amazon** | *Software Development Engineer Intern* (June 2024 – August 2024)

- Improve data integrity for Amazon's Elastic File Systems by implementing cyclic redundancy checks for customer requests.
- Implement metrics to monitor and analyze performance aspects including request latency and CPU utilization
- Test code changes extensively to ensure correctness and backwards compatibility with existing code.

### **Undergraduate Research**

**MIT Kavli Institute** | *Connection Between Quasar Lifetimes and their Galactic Environment* (August 2023 – June 2024)

- Train a committee of neural networks to estimate missing parts of quasar emission spectra to estimate their lifetimes.
- Correlate data with measurements of the quasar's galactic environment obtained from the James Webb Space Telescope.

**MIT Nuclear Science Department** | *Health and Environmental Effects of Nuclear Weapons* (September 2022 – August 2023)

- Use modeling tools such as MATLAB and Python to implement more robust models of nuclear weapon effects. Models take into account variables that have largely been neglected in many public estimates.

**Governor's Institute of Vermont** | *GIV Mathematical Sciences Counselor* (Summer 2022, 2023)

- Organize and run mathematics-focused activities and help high school aged students discover the wonders of math.
- Teach lessons in problem solving and mathematical thinking that would not be covered in a typical high school education.

**Bromley Mountain** | *Park Attendant* (Summer, 2017 – 2023)

- Maintain customer satisfaction while keeping the work environment safe. Assist patrons with any problems they may have.

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## Leadership and Involvement:

**MIT Discover Mathematics Freshman Pre-Orientation Program Leader** (Summer 2022, 2023, 2024)

- Organize activities to acclimate incoming students to MIT. Talk with students about their concerns and give advice.
- Organize talks from professors in the mathematics department.

**MIT Pi Lambda Phi** (Social Chair, Jan. 2023 – Present; Alumni Relations Chair, Spring 2023)

- Organize events for members as well as activities with other organizations.
- Communicate with governing bodies about policy and risk management procedures.

MIT Club Ultimate Frisbee      MIT Video Game Orchestra Section Leader  
BBA Debate Team Captain      BBA Jazz Band Section Leader      BBA Valedictorian