

Education

Massachusetts Institute of Technology (MIT)

Cambridge, MA

- Candidate for S.B. in Electrical Engineering. GPA: 4.8 / 5.0.
- Programming: Python — NumPy and SciPy. MATLAB. Julia.

Sept. 2021 — present

Graduation: June 2025

Signals, Systems, and Inference * Signal Processing * Biomedical Signal and Image Processing * Music Processing * Computational Imaging: Physics and Algorithms * Feedback System Design * Electromagnetics, Waves, and Applications * Acoustics and Sensing * Multivariable Calculus * Differential Equations * Linear Algebra * Probability and Random Variables * Intermediate Probability Problem-Solving * Physics I: Classical Mechanics * Physics II: Electricity and Magnetism * Circuits and Electronics * Computer Architecture * Programming in Python * Low-Level Programming in C and Assembly * Toy Product Design * Strobe Photography Lab

Teaching

Teaching Assistant for Signal Processing

Jan. 2024 — present

- Develop course materials, including problem sets, labs, and quizzes.
- Assist with lectures and recitations. Staff office hours. Lead quiz reviews.
- Maintain course website. Supervise lab assistants. Grade quizzes.

Teaching Assistant for Multivariable Calculus

Sept. 2022 — present

- Hold recitations, office hours, and exam reviews. Webmaster. Head grader. Tutor.

Laboratory Assistant for Signal Processing

Sept. 2023 — Dec. 2023

- Helped students with problem sets and labs during office hours. Led quiz reviews.

Research and Work Experience

Research Assistant, MIT Computational Biophotonics Lab

Cambridge, MA

- Research and develop next-generation optical imaging and computational methods.
- Enable non-invasive, deep, fast, and high-contrast visualization of biological systems.

Jan. 2024 — present

REU Student-Scholar, South Dakota State University

Brookings, SD

- Researched electric power systems and electricity markets.
- Engaged in high-performance computing bootcamps.
- Presented research at the South Dakota EPSCoR symposium in July 2023.

May 2023 — Aug. 2023

Research Assistant, MIT TedLab

Cambridge, MA

- Modeled how prior expectations influence sentence comprehension in noise.

Feb. 2023 — May 2023

Climate Action Intern, Bennett College

Greensboro, NC

- Initiated food waste composting program and water quality audit.
- Interviewed seven sustainability-focused faculty in North Carolina and Virginia.
- Planned environmental justice and sustainability conference for November 2022.

May 2022 — Aug. 2022

Extracurriculars at MIT

Associate Academic Advisor

Experimental Study Group

Aug. 2022 — present

Associate Academic Advisor

Electrical Engineering and Computer Science

Jan. 2024 — present

Resident Peer Mentor

Baker House (Dormitory)

Aug. 2023 — present

Member

Undergraduate Student Advisory Group in EECS

Feb. 2024 — present

Program Coordinator

Priscilla King Gray Center for Public Service

Jan. 2024 — present

Program Counselor

Priscilla King Gray Center for Public Service

May 2023 — Aug. 2023

Track Meet Director

MIT Running Club

Jan. 2023 — Apr. 2023

DEI and Outreach Chair

Undergraduate Mathematics Association

May 2022 — Jan. 2023