

## Education

### Massachusetts Institute of Technology (MIT)

- Candidate for S.B. in Electrical Engineering. GPA: 4.8 / 5.0.
- Experienced with Assembly, C, Julia, MATLAB, Python, and R.

Cambridge, MA

Sept. 2021 – present  
Graduation: June 2025

Signal Processing • Fundamentals of Music Processing • Computational Imaging: Physics and Algorithms  
Strobe Photography Laboratory • Dynamical System Modeling and Control Design • Programming in Python  
Programming in C and Assembly • Digital Systems and Computer Architecture • Circuits and Electronics  
Toy Product Design • Multivariable Calculus • Differential Equations • Linear Algebra • Probability Theory  
Intermediate Probability Problem Solving • Classical Mechanics • Electricity and Magnetism • General Biology

## Teaching

### Lab Assistant for MIT Course 6.3000: Signal Processing

- Assist students with pen-and-paper problems and coding-heavy labs.

Cambridge, MA

Aug. 2023 – present

### Teaching Assistant for MIT Course ES.1802: Multivariable Calculus

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

Cambridge, MA

Aug. 2022 – present

## Research and Work Experience

### Power Systems Researcher, South Dakota State University REU

- Forecast heating, ventilation, and air conditioning electrical loads.
- Set up EnergyPlus building simulation to gather data for functional regression.
- Presented research at the South Dakota EPSCoR symposium in July 2023.

Brookings, SD

May 2023 – Aug. 2023

### Psycholinguistics Research Assistant, MIT TedLab

- Researched rational sentence integration in the presence of noise.
- Devised Bayesian model of how expectations influence comprehension.

Cambridge, MA

Feb. 2023 – May 2023

### Climate Action Intern at Bennett College

- 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 North Carolina and Virginia universities.

Greensboro, NC

May 2022 – Aug. 2022

## Leadership

### Associate Advisor, MIT Experimental Study Group

- Advise students on academic matters alongside a faculty mentor.

Cambridge, MA

Aug. 2022 – present

### Resident Peer Mentor, Baker House

- Support students in dormitory and connect them to resources across MIT.

Cambridge, MA

Aug. 2023 – present

### Program Counselor, MIT PKG Public Service Center

- Assisted with the inaugural Social Innovation Exploration pre-orientation program.

Cambridge, MA

May 2023 – Aug. 2023

### DEI Chair, MIT Undergraduate Mathematics Association

- Planned and hosted a mathematics research opportunities panel.
- Organized mathematics major coffee chats for 75 students.
- Administered the Analysis and Algebra Mentorship Program for 65 students.

Cambridge, MA

May 2022 – Jan. 2023