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## Education

Massachusetts Institute of Technology (MIT)

09/2021 – present

Graduation: May 2025

- SB: Electrical Engineering (GPA: 4.8 / 5.0)
- Skills: Python, MATLAB,  $\text{\LaTeX}$

**Selected Coursework:** Signal Processing • Signals, Systems, and Inference • Discrete-Time Signal Processing • Biomedical Signal and Image Processing • Music Processing • Computational Imaging: Physics and Algorithms • Dynamic System Modeling and Control • Differential Equations • Linear Algebra • Probability and Random Variables • Intermediate Probability Problem Solving

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## Selected Research and Internships

- Research and Innovation Scholar, MIT SuperUROP 09/2024 – present
  - Research and develop methods for audio signal separation
  - Exploit characteristics of music for more effective audio de-mixing
- Optical and Quantum Communications, Lincoln Laboratory 05/2024 – 08/2024
  - Conducted theoretical and experimental analyses of data converters
  - Coded simulations and analyzed empirical data in MATLAB

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## Extracurriculars

- Associate Advisor for First-Year Students 08/2022 – present
- Resident Peer Mentor 08/2023 – present
- Undergraduate Student Advisory Group in EECS 02/2024 – present
- Program Coordinator for PKG Public Service Center 08/2023 – 09/2024
  - Counselor for 2023 Social Innovation Exploration program
  - Coordinator for 2024 Boston Summer of Service program
  - Coordinator for 2024 Social Innovation Exploration program

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## Teaching

- Teaching Assistant for Multivariable Calculus (ES.1802) 09/2022 – 05/2024
  - Led recitation. Held office hours. Maintained course website.
  - Led exam reviews. Graded exams. Tutored students one-on-one.
- Teaching Assistant for Signal Processing (6.3000) 09/2023 – present
  - Assist with teaching MIT's introductory signal processing course.
  - Develop course materials, including problem sets, labs, and quizzes.
  - Deliver lectures and recitations as needed. Lead quiz reviews.
  - Hold office hours. Grade quizzes. Maintain course website.
- Teaching Assistant for Single-Variable Calculus (ES.1801) 09/2024 – present
  - Lead recitation. Hold office hours. Maintain course website.
- Lecturer for a Signal Processing Seminar (ES.S31) 09/2024 – present
  - Proposed and designed special MIT seminar from scratch.
  - Deliver weekly hour-long lectures to 25–45 students.

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## Awards and Honors

- Community Service Award (Experimental Study Group) 05/2024
- EECS Undergraduate Teaching Assistant Award 05/2024
- Outstanding Associate Advisor (2023 – 2024) 05/2024