Albert Tam

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Education

Massachusetts Institute of Technology *Expected Graduation: May 2026*

B.S. in Computer Science and Engineering, Mathematics GPA: 5.0/5

- **Courses**: Natural Language Processing, Sensorimotor Learning, Computer Systems Engineering, Machine Learning, Intermediate Algorithms, Stochastic Processes, Probability and Random Variables, Abstract Algebra

Work Experience

Inkeep Jan 2024 – Present

Software Engineer Intern

- Enhanced document retrieval systems for a retrieval-augmented generation (RAG) product that uses documentation to answer developer questions.
- Leveraged Python, vector databases, and OpenAI API to answer more complex, compositional queries and reduce hallucinations.
- Contributed to a product with 60,000+ monthly active users, demonstrating tangible impact on user engagement and satisfaction.

Madry Lab, MIT Computer Science and Artificial Intelligence Laboratory Jun 2023 – Present

Researcher

- Researched dataset curation method that achieves **3x** data efficiency in training robust, generalizable image segmentation models.
- Contributed to interpretability tools that attribute machine learning model predictions to training data.
- Improved quality of popular image datasets by systematically identifying mislabeled training examples.

Kellis Lab, MIT Computer Science and Artificial Intelligence Laboratory Sep 2022 – May 2023

Researcher

- Developed techniques for factor analysis to integrate multiple single-cell datasets to understand regulatory mechanisms behind complex diseases.
- Used paired PCA methods to locate candidate genetic factors in Alzheimer's disease.

Leadership & Activities

HackMIT Sep 2022 – Present

Director

- Leading a team of 35 undergraduates to organize MIT's largest hackathon, with 1,000+ participants annually, in addition to an annual hackathon for 220+ high schoolers.

Projects

Constructing Defenses Against Adversarial LLM Jailbreak Attacks Nov 2023

- Researched prompt tuning for optimizing defenses against published LLM jailbreak attacks to improve model safety.
- Developed pipeline for prompt-tuning and evaluating defenses in PyTorch.

Web.lab: Collaborative Journaling App Jan 2023

- Designed and developed journaling website for users to create, share, and collaborate on journals with friends.
- Implemented image, audio, and video upload with AWS S3.

Honors & Awards

USA Biology Olympiad National Finalist, Top 12 (2021): top 0.5% of high school students. Invited to attend most prestigious biology summer program in the US, and placed top 12 among finalists at the program.

American Invitational Mathematics Examination, 5x Qualifier (2018 – 2022): top 5% of high school students.

Research & Publications

Albert Tam, Josh Vendrow, & Aleksander Madry. "Data Attribution for Image Segmentation Models." NeurIPS 2023 Workshop on Attributing Model Behavior at Scale (2023)

Skills, Languages, Interests

- **Languages/frameworks**: Python, JavaScript, PyTorch, NumPy, React, MongoDB, Express.js, Flask