

Cole Foster

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EDUCATION

Massachusetts Institute of Technology

Graduating May 2026

B.S., Computer Science (Course 6-4), Minor in Mathematics, Concentration in Economics

Cambridge, MA

- 4.9/5.0 GPA
- Student Athletic Advisory Committee, Delta Kappa Epsilon Fraternity, MIT Poker Club
- Relevant Prior Coursework: Intro to ML, Design and Analysis of Algorithms, Introduction to Algorithms, Fundamentals of Programming, Linear Algebra, Probability, Intro to Data Science, Multivariable Calculus
- Relevant Fall 2024 Coursework: Graduate Level ML, Natural Language Processing, Inference

WORK EXPERIENCE

MIT Media Lab

May 2024 - August 2024

Deep Learning Researcher

Cambridge, MA

- Project studies diversity and relevance in the context of decentralized data markets.
- Responsible for using output embeddings of a CLIP model and PCA to evaluate different diversity and relevance measures on both medical images and NLP datasets.
- Correlated these metrics with downstream classification tasks.

MIT Economics Department

May 2023 - August 2023

Undergraduate Researcher

Cambridge, MA

- Created models that forecasted vacation rental property demand based on factors like location and nearby amenities.
- Employed Stata, Excel, and Python to craft data visualizations for the paper.
- Completed a literature review on hedonic analysis and regression.
- Worked under Professors Glenn and Sara Ellison.

Falcon Ventures

May 2022 - August 2022

Analyst

Austin, TX

- Analyzed real estate growth patterns in single-family homes in secondary Texas markets.
- Employed the language R to identify and forecast economic growth drivers, aiding in the finding of potential investment property locations.

OTHER

MIT Pokerbots - 3rd Place

January 2024 - February 2024

- Placed 3rd in the final tournament out of 75+ MIT teams. Final record against opposing bots was 3276-424 (where each game was 1000 hands).
- Competitors built autonomous pokerbots in Java, Python, and C++ in a Texas Hold 'em auction variant.
- Competed in a month-long Pokerbots competition sponsored by companies like GTOWizard, DRW, Hudson River Trading, Citadel, Jane Street Capital.
- Studied game theory and ML techniques such as finding a minimax equilibrium for heads-up poker

NCAA D-III Athlete

August 2022 - May 2026

- Left-handed relief pitcher on the MIT baseball team.
- Dedicated 40 hours per week in each spring semester and 15 hours per week each fall semester to games, practices, team meetings, and training.

SKILLS, INTERESTS, and PROJECTS

- **Skills:** Python (Pytorch, Pandas, Numpy), R, Java, Stata, Git, SQL
- **Interests:** College sports, poker, pickleball, Chipotle
- **Projects:** US General Election Prediction Model: https://github.com/fostercole/election_prediction.git
N-Dimensional Minesweeper Game: <https://github.com/fostercole/nd-mines>