MAANASI LIMAYE
Massachusetts Institute of Technology | mlimaye10@gmail.com

Rising junior at MIT interesting in applying statistical and programming skills to financial markets research and applications in the field. In my free time, I love playing chess and have been playing competitively since I was in grade school. In addition, I enjoy teaching math and coding to younger students to pass on my love for the subjects. Recently, I have taken up running and completed my first half marathon last November.

EDUCATION

Massachusetts Institute of Technology *Cambridge, MA*
B.Sc. in Mathematics with Computer Science *Expected May 2026*
GPA: 4.3/5.0
• Mathematics: Probability and Random Variables, Fundamentals of Statistics, Math Topics for Finance (Current)
• Computer Science: Fundamentals of Programming, Mathematics for Computer Science, Introduction to Algorithms (Current), Introduction to Machine Learning (Current)
• Finance/Economics: Corporate Financial Accounting, Managerial Finance

RESEARCH PROJECTS

Algorithm Optimization Researcher *Cambridge, MA*
MIT Undergraduate Researcher *June 2024-Current*
Advisor: Dr. Ziang Chen
• Replicate recent research on algorithms like "sum-of-minimum" optimization by writing Python programs
• Propose practical optimization algorithm to train neural network models

Neuroscience Institute at the University of Cape Town *Cape Town, ZA*
Intern *June-July 2023*
Advisor: Dr. Graham Fieggen
• Quantitatively analyzed sleep patterns in relation to animal brain and body mass
• Implemented MATLAB to visualize the data and calculate statistical tests
• Compiled research into a paper discussing the effects of sleep on developing brain and body mass

Koch Institute for Integrative Cancer Research at MIT *Cambridge, MA*
MIT Undergraduate Researcher *January-May 2023*
Advisor: Dr. Akash Gupta
• Studied the delivery of mRNA to cells through lipid nanoparticles (LNP) analysis
• Synthesized various LNPs of different concentrations and solutions and tested in live mice
• Performed wet lab techniques on LNPs to determine characteristics of the solutions

Jura Bio Inc. *Remote*
Research Science Institute Researcher *June-August 2021*
Advisor: Dr. Elizabeth Wood
• Tracked how T-cell clones are affected by multiple sclerosis (MS) during pregnancy
• Implemented R language packages to perform statistical tests on accumulated data
• Found three T-cell clones that could affect MS symptoms and compiled results into a research paper

WORK EXPERIENCE

MIT Tour Guide *Cambridge, MA*
Tour Guide *January 2023-Current*
• Representative of the undergraduate class of MIT that leads groups of 20-50 prospective students and their families around campus
• Knowledgeable about the history and programs across various interests of MIT

Global Teaching Labs Italy *Macerata, IT*
Python and Molecular Biology Instructor *January 2024*
• Taught fundamentals of Python programming to high school students. Creatively taught molecular biology through activities and videos. Devised a solution to use online resources since school hardware was limited