

Grace Liu

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Education

Massachusetts Institute of Technology, Cambridge, MA May 2026
Bachelor of Science in Mathematics and Computer Science GPA: 5.0/5.0
Coursework: Fundamentals of Programming, Introduction to Programming in Python, Mathematics for Computer Science, Intermediate Probability, Linear Algebra

Union County Magnet High School, Scotch Plains, NJ June 2026
GPA: 98/100, SAT: 1580
Coursework: AP Calculus, AP Statistics, AP Physics C

Experience

Whitehead Institute, Cambridge, MA Jan 2026 - present
UROP: Gene Expression of C4 Protein

- Comparing mRNA quantities of C4 protein between biological sexes by analyzing large datasets of the human proteome to improve drug efficacy

STEM You Can!, Elizabeth, NJ Jun 2019 – Aug 2022

- Led a free two-week summer camp and weekly workshops explaining STEM concepts and performing hands-on experiments for about 20 middle-schoolers
- Applied and received \$1000+ in grant money to create 30 science experiment kits and distributed them through a local library

Above the Grade Tutoring, Union County, NJ Jan 2022 – Aug 2022

- Designed 50+ math and physics worksheets and met with 6 students weekly for one-on-one tutoring

Activities & Extracurriculars

Student Council, Treasurer Dec 2018 – Jun 2022

- Raised and managed \$5,000 worth of finances for grade of 75 students to fund class events
- Collaborated with Board of Education and school principal to run fundraisers such as restaurant-sponsored dinners, running challenges, and merchandise sales

Runnells Center for Healthcare and Rehabilitation, Activities Chair Jan 2019 – Mar 2020

- Coordinated events for ~30 residents every weekend, such as holiday celebrations, church services, and music performances
- Volunteered for a total of 150 hours

Skills & Interests

Programming: Python, MATLAB, Linux, HTML, CSS, Basic Javascript
Software: Microsoft Office, LaTeX
Languages: English (fluent), Mandarin (intermediate)