

Isabella Li

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Education

Lexington High School

Fall 2023 – present

Mathematics Courses: Precalculus (9th grade), AP Calculus BC (10th grade)

Harvard Extension School Multivariable Calculus and Linear Algebra (11th grade).

GPA: 4.15/4.33, freshman and sophomore year

CS experience.....

C++, Python, L^AT_EX, MATLAB, Mathematica, SageMath, Java, HTML, CSS, JavaScript.

Academic Distinctions

USAMO Qualification: 2025, 2026

USA Mathematical Talent Search Silver Award: 2025

North American Computational Linguistics Invitational Bronze Medal: 34th nationally, 2026

USA AI Olympiad Silver Medal (national T100): 2026

National French Contest Gold Award: 2024

Scholastic Writing Regional Silver Key x2, Poetry: 2026

John Locke Essay Competition Shortlist: 2023

National History Day State Special Award: in Music History, 2026

Non-Academic Distinctions

Boston International Composition Contest First Place Gold Award: 2026

Charleston 2025 Music Competition First Prize x2: 2025

MMEA All-State Composer: 2025

President's Volunteer Service Gold Award: 2024

UDel Diamond Challenge Semifinalist: 2026

GameGala First Place (Top 2): 2026

Standardized Test Scores

PSAT/NMSQT: 1500/1520 (Oct 2025)

SAT: 1570/1600 Superscore

AP Computer Science Principles, AP Computer Science A, AP Calculus BC , AP Biology, AP World History, AP Chinese: 5/5 (2024, 2025)

Math Competition Results

2026 Girls in Math at Yale: 1st place in Guts Round, Team Round and Sweepstakes

2026 AIME I: 12/15

2025 Princeton University Mathematics Competition: Team Round 7th

2025 Yale MMATHS: Team Overall 3rd
2025 Girls in Math at Yale: Guts Round 1st
2025 AMC 12B: 129/150
2025 AMC 12A: 135/150
2025 AIME II: 12/15
2024-25 USAMTS: 74/75
2024 AMC 10B: 141/150
2024 AMC 10A: 139.5/150
2024 Yale MMATHS: Team Overall 2nd

Summer Activities

PROMYS: *Summer 2026*
Returner. Research.

PROMYS: *Summer 2025*
Took course on Number Theory and presented on Euler's Theorem and Pick's Formula.

SUMaC Online Program I: *Summer 2025*
Took course on Abstract Algebra and Number Theory and presented on the Rivest–Shamir–Adleman Cryptosystem.

G2 Math Program: *Summer 2024*
Took courses on Olympiad math.

Pioneer Research Institute: *Summer 2025*
Took courses on Number Theory and wrote an expository paper on factorization methods.

Yau Tsinghua Mathcamp: *Summer 2023*
Took courses in Analytics and Number Theory and Linear Algebra. Presented on sums of squares.

Activities

MIT PRIMES Scholar: *2025*
Studying topology and Riemannian geometry.

Lexington High School (LHS) Math Team: Captain *2025 – present*
Organizing Lexington Math Tournament, the one of the oldest and biggest in-person math competitions in the USA for middle school students, writing problems, and participating in competitions.
Received the Math Prize for Girls Leadership Grant.

Boston Youth Symphony Repertory Orchestra: Percussionist *2024 – present*
Performing concerts.

LHS Linguistics Club: Founder *2025 – present*
Organizing club events and fundraising events.

LHS JV Girls Basketball Team: Player *2023 – 2024*

LHS Musket (School Newspaper): Writer *2025 – present*
Interviewing and writing articles for the school newspaper.

LHS Japanese Club and LHS French Club: President *2025 – present*

Organizing events, fundraising.

Youth STEAM Initiative: Project Leader 2023 – present
Based in Lexington MA, we help various communities design websites, implement events, track budget and more.

Lexington Chapter of the National Honor Society: Member 2025 – present
Use meaningful community service to show Scholarship, Leadership, Service, and Character.

Rosie's Place: Volunteer 2025 – present
Making and distributing food at shelter for homeless women and their children.

Paid Work Experience

Expil Inc (Po-Shen Loh LIVE Communication Training program): 2025
Teaching underprivileged middle school students Algebra 1, 2 and Geometry.

Certifications

Japanese Language Proficiency Test N1: 2025
Equivalent to Fluency in Japanese.

Massachusetts Seal of Biliteracy: 2026
Biliteracy in Mandarin and English.

Projects

RSA Cryptosystem presentation: at SUMaC 2025
https://mintylemon66.github.io/sumac_rsa.html

Differential geometry final paper and presentation: at MIT PRIMES 2025
<https://mintylemon66.github.io/primesfinalpaper>
<https://mintylemon66.github.io/primesfinalpresentation>

Pick's Formula and Euler's Theorem paper and presentation: at PROMYS 2025
https://mintylemon66.github.io/pick_presentation.html
https://mintylemon66.github.io/pick_paper.html

Paper on Classic Factorization Algorithms: at Pioneer Research Institute 2025
<https://mintylemon66.github.io/factorization.html>
accepted to biannual International Congress of Mathematicians (ICM) 2026

Fourier analysis exposition: 2025
<https://mintylemon66.github.io/fourier>

T-vol exploration: 2025
<https://mintylemon66.github.io/tvol>