

Eric Shen

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🌐 <http://ericshen.net/>

Education

- 2023–2027 **Massachusetts Institute of Technology**, Cambridge, MA, *GPA: 5.0.*
Junior pursuing BS in Math (18) and Computer Science and Engineering (6-3)
- 2019–2023 **Lynbrook High School**, San Jose, CA, *Unweighted GPA: 4.0.*

Awards

- 2023 **64th International Math Olympiad (IMO)**, Gold medal.
12th place in the world
- 2022 **63rd International Math Olympiad (IMO)**, Gold medal.
23rd place in the world
- 2023 **84th Putnam**, Top 10.
Also honorable mention in 2024.
- 2023 **USA Math Olympiad (USAMO)**, Perfect score.
Also gold medal in 2022, honorable mention in 2021.
- 2019 **USA Junior Math Olympiad (USAJMO)**, Winner.
- 2018 **USA Computing Olympiad (USACO)**, Platinum division.
- 2022 **USA Physics Olympiad (USAPhO)**, Semifinalist.
- 2022 **National Science Bowl**, National champion with Lynbrook High School.
Also national 2nd place team in 2019 with Miller Middle School.

Programs

- 2025 **MIT Summer Program in Undergraduate Research (SPUR).**
- 2019–2023 **Math Olympiad Program (MOP).**
- 2021–2023 **MIT PRIMES-USA.**
- 2020 **Canada/USA Mathcamp (MCSP).**
- 2021 **Program in Mathematics for Young Scientists (PROMYS).**
- 2023 **Summer Program on Applied Rationality and Cognition (SPARC).**

Work Experience

- 2026 **Citadel**, Quantitative Research Intern.
Summer internship in portfolio optimization in Global Quantitative Strategies (GQS).
- 2025 **MIT Summer Program in Undergraduate Research (SPUR)**, Undergraduate researcher.
Made breakthrough in learning the distribution of a Gaussian graphical model with a single Glauber trajectory, in near-optimal sample complexity and runtime.
- 2024– **MIT 6.1220/18.410**, Grader.
Grades weekly problem sets for Design and Analysis of Algorithms.

Volunteering Experience

- 2024– **USA Math Olympiad (USAMO) Editorial Board**, Board member.
Helps write, review, and select problems for the USAMO.
- 2024 **65th International Math Olympiad (IMO) Jury**, Team leader.
Team leader for the Ghana national team at IMO 2024, participating in jury meetings and score coordination.
- 2023–2024 **MISE Foundation**, Instructor.
Involved in training program with Math Olympiad contestants from Ghana and Nigeria.
- 2023–2024 **Harvard-MIT Math Tournament (HMMT)**, Problem Staff.
See <https://www.hmmt.org/>. Helps write problems and testsolve for two competitions a year.
- 2019–2023 **Youth Euclid Association (YEA)**, Vice president.
Managed competitions and taught olympiad-level classes (2020–2021). Previously taught pre-olympiad-level classes (2019–2020).
- 2018–2021 **Christmas Math Competitions (CMC)**, Director.
Wrote mock competitions for AMC series annually on AoPS website. See <http://cmc.ericshen.net/>.
- 2019–2020 **NEMO**, Organizer in 2020.
National competition run at various schools. Previously problem writer (2019). See <https://nemomath.github.io/>.
- 2019–2020 **Online Math Open (OMO)**, Problem writer.
Online biannual monthlong team competitions. See <https://internetolympiad.org/>.
- 2020–2023 **ELMO**, Director in 2023.
Annual olympiad run at MOP and open to the public on AoPS. See <https://web.evanchen.cc/elmo/index.html>.