

Sean Li

✉ seanji@mit.edu ◦ [in seanji1](https://www.linkedin.com/in/seanji1)

Education

Massachusetts Institute of Technology Aug. '21 – present

Sophomore majoring in 18 (math) and 6-3 (computer science).

Assistant in 6.1200 (math for CS), 6.1010 (fundamentals of prog), 18.218 (graduate combo), 18.701 (algebra).

University of California, Berkeley Jan. '20 – present

Concurrent enrollment. A+ in Math 104 (analysis), A+ in Math 250A (graduate abs. alg.).

Reference: Dr. Kenneth Ribet

Monte Vista High School 2017 – present

Highest honors. Sole National Merit Scholar.

Experience

University of Minnesota-Duluth REU, Researcher May '22 – Jul. '22

Researcher in combinatorics for top REU. Ten out of ≈ 300 applicants.

Preprints at [arXiv:2208.14587](https://arxiv.org/abs/2208.14587) and [arXiv:2212.13740](https://arxiv.org/abs/2212.13740). Submitted for publication. One more in preparation.

Reference: Prof. Joe Gallian

University of Virginia REU, Researcher Jun. '21 – Jul. '21

Conducted research on Tamagawa products over number fields. Fifteen out of ≈ 700 applicants.

Preprint at [arXiv:2108.13625](https://arxiv.org/abs/2108.13625) (*Tam. Products for Ell. Curves Over Num. Fields*). Submitted for publication.

Reference: Dr. Ken Ono

MIT PRIMES-USA, Researcher Jan. '20 – present

The Penney's Game with Group Action, preprint at [arXiv:2009.06080](https://arxiv.org/abs/2009.06080), published in Ann. Comb.

Reference: Dr. Tanya Khovanova

HMMT November Problem Czar 2021 – present

Recruited to lead problem selection committee at Harvard-MIT Math Tournament.

Youth EUCLID Association 2015 – present

President of 501(c)(3) for free STEM classes & contests. Raised \$25k & negotiated with Board of Education.

Selected awards and camps

Math Olympiad Program June '18, '19, '20

Putnam 2021, N1 (11th place) Feb. 2022

Davidson Fellows Scholarship August 2021

Summer Program on Applied Rationality & Cognition July '19, '20

Regeneron STS National Scholar January 2021

Shing-Tung Yau Mathematics Award Semifinalist October 2020

Canada/USA Mathcamp July 2018

Skills

Languages: Python, Java, Typescript, C++, HTML/CSS, \LaTeX

Frameworks: Flask, React.js, Bootstrap, Django, Sage, Vim \LaTeX

Tools: Google Sheets/Excel, Blender, Vim

Operating Systems: macOS, Linux/Unix

Last updated July 20, 2021