

# Sean Li

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## Education

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**Massachusetts Institute of Technology** Aug. '21 – present  
Freshman and prospective Course 18C (Math and Computer Science).

**University of California, Berkeley** Jan. '20 – Dec. '20  
Concurrent enrollment. A+ in Math 104 (analysis), A+ in Math 250A (graduate abs. alg.).  
Reference: Prof. Kenneth Ribet

**Monte Vista High School** Aug. '17 – Jun. '21  
Highest honors. Sole National Merit Scholar.

## Experience

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**University of Minnesota-Duluth REU, Researcher** May '22 – Jul. '22  
Incoming researcher in combinatorics.  
Reference: Prof. Joe Gallian

**University of Virginia REU, Researcher** Jun. '21 – Jul. '21  
Conducted research on arithmetic statistics on Tamagawa products over number fields.  
Preprint at [arXiv:2108.13625](https://arxiv.org/abs/2108.13625) (*Tam. Products for Ell. Curves Over Num. Fields*). Submitted for publication.  
Reference: Prof. Ken Ono

**MIT PRIMES-USA, Researcher** Jan. '20 – present  
Currently conducting word avoidance research under PRIMES-USA 2020.  
Preprint at [arXiv:2009.06080](https://arxiv.org/abs/2009.06080) (*The Penney's Game with Group Action*). Published in Ann. Comb.  
Reference: Dr. Tanya Khovanova

**HMMT November Problem Czar** 2021 – present  
Youngest czar recruited to lead problem selection committee at Harvard-MIT Math Tournament.

**Youth EUCLID Association** 2015 – 2021  
President of 501(c)(3) for free STEM classes & contests. Raised \$25k & negotiated with Board of Education.

## Selected awards and camps

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<b>Math Olympiad Program</b>	Jun. '18, '19, '20
<b>Putnam 2021, N1 (11th place)</b>	Feb. 2022
<b>Davidson Fellow, Mathematics</b>	Aug. 2021
<b>Regeneron Science Talent Search, National Scholar</b>	Jan. 2021
<b>Shing-Tung Yau Mathematics Award, Semifinalist</b>	Oct. 2020
<b>Spirit of Ramanujan Fellow</b>	Jul. 2021
<b>President's Volunteer Service Award, Gold</b>	Sep. '18, '19, '20
<b>MIT Integration Bee, 4th place</b>	Jan. 2022
<b>National Merit Scholar</b>	Oct. 2020

## Skills

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Python, Flask, Java, React.js, HTML/CSS/Bootstrap, Sage, Google Sheets/Excel, Blender,  $\text{\LaTeX}$

*Last updated January 28, 2022*