

Anthony Wang

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Education

Massachusetts Institute of Technology (MIT) 2023 – 2027 (Expected)

Pursuing B.S. Mathematics and B.S. Computer Science and Engineering

Coursework: Graph Theory and Additive Combinatorics (18.225), Introduction to the Theory of Computation (18.404)

Dual Enrollment

August 2021 – December 2021

Intermediate Calculus (Multivariable)

Selected awards

USA Math Olympiad Gold Medal (Top 16 Nationwide) 2023

USA Computing Olympiad Platinum Division 2020

USA Physics Olympiad Gold Medal (Top 40 Nationwide) 2023

Quiz Bowl High School National Championship Tournament 11th place Individual 2023

Work Experience

Cadence Design Systems Software Internship June 2021 – December 2021

- Rewrote comparison algorithm to allow for use of parallel processing with team
- Rigorously tested to ensure accuracy. End product resulted in a 5x speed improvement

Publications

Y. Gao, **A. Wang** (2023). Consecutive patterns in Coxeter groups. *Journal of Algebra*, Vol. 634, 650-666, <https://doi.org/10.1016/j.jalgebra.2023.07.029>

Programs and Activities

Toga Junior Math Club | Head coach 2019 – 2023

- Collaborate with others to develop course materials, give lectures, and write original mock tests
- Prepare students for regional, state, and national competitions
- Volunteer over winter break to train the middle school team

MIT PRIMES USA | Student Researcher January 2022 – January 2023

- Conduct mathematical research into algebraic combinatorics under guidance of MIT graduate student
- Write paper to submit to conference and journals

Quizbowl Club | President 2021 – 2023

- Organize practices for Quizbowl team containing 20 students, and lead team to nationals

Toga Math Club | Competition Manager 2022 – 2023

Saratoga Falcon | Head Copy Editor 2022 – 2023

Skills

Programming

Python, C++, Java, Javascript (Typescript), \LaTeX , HTML, CSS

Experience with git and command line

Languages

Fluent in English and Chinese, Proficient in Spanish