Zifan Wang (Atticus)

Mobile: 609-455-9838
Email: atticusw@mit.edu

I am a 3rd year undergraduate student at MIT studying mathematics.

Education

2018–2022	Princeton International School of Mathematics and Science
2022–2026	Massachusetts Institute of Technology, B.S. (expected)

Awards and experience

2021	Gold Medal, International Mathematical Olympiad
2021	Winner (perfect score), USA Mathematical Olympiad
2021	Silver Medal, Asian Pacific Mathematical Olympiad
2022	Top 40 Finalist, Regeneron Science Talent Search
2023	Participant, MIT SPUR program
2024	Participant, Talbot Workshop: Topological Cyclic Homology of Ring Spectra
2024	Organizer, Learning seminar on prismatic cohomology.

Preprints

2020–2021	Representation Stability and Finite Orthogonal Groups. Mentored by Arun Kannan. *Algebras and Representation Theory* (2023), link. Part of PRIMES-USA.
2023	On the Analytic Langlands Corrrespondence for PGL_2 in Genus 0 with Wild Ramification. Mentored by Daniil Klyuev, arxiv:2312.01030 [math.AG].
2024	Rewarded Region Replay (R3) for Policy Learning with Discrete Action Space. With Bangzheng Li, Ningshan Ma. arXiv:2405.16383 [cs.LG]
2025	Breakpoint: Stress-testing systems-level reasoning in LLM agents. With Uzay Girit and Kaivalya Hariharan. Submitted to COLM 2025.

Talks

2023	Moduli space of abelian varieties, STAGE
2024	Integrable connections, STAGE
2025	Milnor's exotic 7-spheres, Kan seminar
2025	Equivariant cohomology of compact Lie groups, Kan seminar