Jessica J. Zhang

Education

Harvard University , AB-AM in mathematics Overall GPA: 4.0/4.0	2021–present
Experience	
Rutgers Symplectic Summer School Participated in a summer school for advanced topics in symplectic geometry, including global Kur integer-valued curve-counting invariants, Hamiltonian dynamics, and contact topology.	2024 anishi charts,
Princeton RTG Summer School in Geometry and Topology Attended a summer school for 30 advanced undergraduates and first-year graduate students; to Heegaard Floer homology, pseudoholomorphic curves, and surfaces in 4-manifolds.	2023 pics included
Harvard Directed Reading Program Worked on reading projects on Morse theory and Hamiltonian Floer theory, following lecture n Wendl and a book by Michèle Audin and Mihai Damian, with Maxim Jeffs.	2022–2023 potes by Chris
UC Davis Pure and Applied Math REU Conducted research with Roger Casals on finding arboreal Lagrangian skeleta for certain 4-ma simple Weinstein handlebody diagrams.	2022 anifolds with

Honors

Herchel Smith Undergraduate Research Fellow	2024
Barry M. Goldwater Scholar	2024
Phi Beta Kappa "Junior 24"	2024
Harvard College Research Program (HCRP) Fellow	2023
Karl Menger Memorial First Place Award	202I
Regeneron ISEF Finalist and Second Place in Mathematics	202I
Regeneron Science Talent Search Finalist	2021

Publications

"Classification of tight contact structures on a solid torus" with Zhenkun Li. To appear in *Mathematical Research Letters*. arxiv: 2006.16461

"Exponents of Jacobians of graphs and regular matroids" with Hahn Lheem, Deyuan Li, and Carl Joshua Quines. *Rose-Hulman Undergraduate Math Journal*, 2020. arxiv: 1910.06442

Presentations

"The Lee Spectral Sequence for Band Sums" at the 2024 Joint Mathematics Meetings	2024
"Classification of tight contact structures on a solid torus" at the 2021 Joint Mathematics Meetings	202I
"Exponents of Jacobians of connected regular matroids" at the 2020 Joint Mathematics Meetings	2020

Teaching

Course assistant for Math 132: Differential Topology, taught by Benjamin Gammage	2024
Course assistant for Math 122: Algebra 1, taught by Noam Elkies	2023
Course assistant for Math 55b: Studies in Real and Complex Analysis, taught by Joe Harris	2023
Course assistant for Math 55a: Studies in Algebra and Group Theory, taught by Joe Harris	2022