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## Jessica J. Zhang

## EDUCATION

LDUCATION	
Princeton University, PhD in mathematics	2025-present
Harvard University, AB in mathematics	2021-2025
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.  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.  Harvard Directed Reading Program  Worked on reading projects on Morse theory and Hamiltonian Floer theory, following lecture in	2023 ppics included 2022–2023
Wendl and a book by Michèle Audin and Mihai Damian, with Maxim Jeffs.  UC Davis Pure and Applied Math REU  Conducted research with Roger Casals on finding arboreal Lagrangian skeleta for certain 4-m. simple Weinstein handlebody diagrams.	2022 anifolds with
Honors	
Centennial Fellowship David Mumford Prize Herchel Smith Undergraduate Research Fellow Barry M. Goldwater Scholar Phi Beta Kappa "Junior 24" Harvard College Research Program (HCRP) Fellow Regeneron Science Talent Search Finalist	2025 2025 2024 2024 2024 2023 2021
Publications	
"Elliptic bootstrapping and the nonlinear Cauchy-Riemann equation." <i>Columbia Journal of Under ematics</i> , 2024. Expository.  "Exponents of Jacobians of graphs and regular matroids" with Hahn Lheem, Deyuan Li, and Car Rose-Hulman Undergraduate Math Journal, 2020. arxiv: 1910.06442	
Presentations	
"The Lee Spectral Sequence for Band Sums" at the 2024 Joint Mathematics Meetings "Classification of tight contact structures on a solid torus" at the 2021 Joint Mathematics Meeting "Exponents of Jacobians of connected regular matroids" at the 2020 Joint Mathematics Meetings	,
Teaching	

Undergraduate course assistant

2022-2025

Courses include undergraduate courses in algebra, analysis, differential topology, and algebraic geometry.