Fangu Chen

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Department of Mathematics
University of California, Berkeley
Evans Hall, Berkeley, CA 94720

EDUCATION

University of California, Berkeley
Ph.D. in Mathematics   Expected May 2026
Advisor: Yunqing Tang

University of Michigan, Ann Arbor
B.S. in Mathematics   2021

University of Michigan - Shanghai Jiao Tong University Joint Institute
B.S. in Electrical and Computer Engineering   2021

PUBLICATIONS AND PREPRINTS

- Infinitely many supersingular primes for some Mumford's abelian fourfolds

- Superspecial primes for QM abelian surfaces over real number fields

- Determining optimal test functions for 2-level densities, with Elżbieta Bołdyriew, Charles Devlin VI, Steven J. Miller, and Jason Zhao, *Research in Number Theory*, 9 (2023), no. 2.

- The limiting spectral measure for an ensemble of generalized checkerboard matrices, with Yuxin Lin, Steven J. Miller, and Jiahui Yu, *The PUMP Journal of Undergraduate Research*, 4 (2021), 202–221.

INVITED TALKS

- Zhejiang University, Number Theory Seminar, December 2025

- AMS Special Session (Hodge theory, algebraic cycles, and arithmetic), St. Louis, October 2025

- University of Michigan, Ann Arbor, GLNT Seminar, October 2025

TEACHING EXPERIENCE

University of California, Berkeley
Graduate Student Instructor
Math 56 (Linear Algebra)   Fall 2024
Math 16A (Analytic Geometry and Calculus)   Fall 2023
Math 54 (Linear Algebra and Differential Equations)   Spring 2023
Math 91 (Special Topics in Mathematics Linear Algebra)   Fall 2022
Math 53 (Multivariable Calculus)   Spring 2022
Math 10A (Methods of Mathematics: Calculus, Statistics, and Combinatorics)   Fall 2021

Math REU Mentor   Summer 2025

University of Michigan, Ann Arbor

Course Assistant

Math 396 (Honors Analysis II)	Winter 2021
Math 395 (Honors Analysis I)	Fall 2020

Math Lab Tutor	Winter 2020

Preliminary Arizona Winter School

Elliptic Curves and Abelian Varieties, Problem session leader	Fall 2023