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