

ZHUO ZHANG

Phone: (+1) 217-991-2524 ♦ Email: zhuozh@stanford.edu

EDUCATION

Stanford University

Sep 2025 – Present

Ph.D. in Mathematics

- GPA: 4.0/4.0

University of Illinois Urbana-Champaign

Aug 2021 – May 2025

B.S. in Mathematics, Minor in Computer Science

- GPA: 4.0/4.0
- Summa Cum Laude and with highest distinction in Mathematics

RESEARCH INTERESTS

Algebraic and analytic number theory.

PUBLICATIONS

“An improved unconditional bound on the relative error in the Chebotarev density theorem,” with J. Thorner, accepted for publication in *Forum Mathematicum*.

“On a special metric in cyclotomic fields,” with K. Saettone, A. Zaharescu, accepted for publication in *Integers*.

“Pattern formation statistics on Fermat quotients,” with C. Cobeli, A. Zaharescu, accepted for publication in *Bulletin of the Malaysian Mathematical Sciences Society*.

“An elementary characterization of the Gauss-Kuzmin distribution in the theory of continued fractions,” with A.J. Hildebrand, S. Singh, accepted for publication in *Integers*.

“On the continued fraction expansion of almost all real numbers,” with A.J. Hildebrand, A. Jin, S. Singh, accepted for publication in *Involve*.

TEACHING EXPERIENCES

Spring 2026 (Course Assistant): Math 106, Functions of a complex variable.

Autumn 2025 (Course Assistant): Math 19, Calculus.

COMMUNITY INVOLVEMENT

Illinois Geometry Lab Outreach Program

Aug 2022 – May 2024

- Reached out to children and students from local communities and presented to them interesting topics in mathematics. Introduced new technologies to children, such as 3D printing.
- Organized outreach events and social events. Coordinated the work between group members.

Mentor of First-year James Scholar Students

Aug 2022 – Dec 2022

- Mentored two first-year undergraduate James Scholar students majoring in mathematics.
- Organized mentorship meetings, study sessions and Q&A sessions.
- Helped the mentees find resources for undergraduate research in mathematics and physical sciences.

HONORS AND AWARDS

Roy Brahana Prize	May 2025
Most Outstanding Major Award in Mathematics	Nov 2024
LAS Get Experience Scholarship	Apr 2023
Lewis C. Hack Scholarship	Mar 2023

SKILLS

Programming	Mathematica, LaTeX, Python, C++.
Languages	Chinese (Native), English (Proficient).