



Ph.D. Opportunities in Statistics

Dr. Yizhou Cai's research lab is seeking Ph.D. students to join the [Department of Mathematics](#) at Texas State University (TXST). Students will apply to the [Mathematics Ph.D. program](#) with a concentration in Statistics.

Qualified students may be considered for graduate funding, including assistantship opportunities. Additional summer research support is available for students whose research interests and progress align with funded projects.

Applications are welcome for Spring and Fall 2027. Learn more about Dr. Cai at [Faculty Profile](#).

About Texas State University:

Texas State University is a rapidly growing public research university located in the Austin–San Antonio corridor, placing TXST in one of the most dynamic economic and technology regions in the United States. Within Central Texas, the university has substantial regional visibility, a large alumni presence, and established relationships with employers, government agencies, educational institutions, and industry partners. For graduate students, this strong local network complements TXST's expanding research profile and creates valuable opportunities for collaboration, internships, consulting, and career development.

Research Areas:

The lab works on statistical theory, methodology, computation, and interdisciplinary applications. Students may develop research projects according to their interests and background. Current areas include:

- Scalable statistical methodology;
- High-dimensional statistics;
- Dependence modeling and analysis;
- Computational statistics and optimization;
- Statistical consulting and interdisciplinary research.

Basic Qualifications:

Applicants should hold (or expect to complete) a B.S. or M.S. in statistics, applied mathematics, mathematics, or a closely related discipline. Applicants from data science, computer science, biostatistics, engineering, and related quantitative fields will also be considered. Competitive applicants should demonstrate at least two of the following:

- Ability or preparation to develop statistical models and inference;
- Programming experience in R, MATLAB, Python, or related languages;
- Interest in rigorous statistical methodology and real-world applications;
- Strong written or oral communication skills.

Preferred Qualifications:

Research, coursework, or project experience in one or more of the following areas is especially welcome:

- Statistical methodology, mathematical statistics, or optimization;
- Modeling of dependent, correlated, spatial, longitudinal, or other non-independent data;
- Machine learning, deep learning, or data science;
- High-performance computing (HPC), numerical computing, or computational performance optimization.

How to Express Interest:

Prospective students are encouraged to contact me with:

- CV or resume;
- Unofficial transcript(s);
- (Optional) statement for research interest;
- (Optional) links to publications, research papers, code repositories, or other relevant work.

Questions about opportunities in the lab may be sent to yizhouc@txstate.edu with the subject line "Prospective Ph.D. Student."

Official Application:

Applicants seeking admission to the Mathematics Ph.D. program must submit an official application through the Texas State Graduate College.

- **Spring admission:** October 1 for international applicants and November 1 for U.S. applicants.
- **Fall admission:** June 1 for international applicants and August 1 for U.S. applicants.

Official Program Information:

- [Mathematics Ph.D. admission requirements and deadlines](#)
- [Texas State Department of Mathematics](#)
- [Texas State Graduate College](#)