



Research Assistant Opportunities in Statistics

Dr. Yizhou Cai's research lab in the [Department of Mathematics](#) at Texas State University (TXST) is seeking motivated students interested in participating in research in statistics, data science, and related areas.

Research assistants will have opportunities to work on methodological, computational, and interdisciplinary projects under faculty supervision. Projects may involve statistical modeling, coding, data analysis, academic writing.

Research assistant positions may be available depending on research needs, student background, and funding. Students interested in gaining research experience are also encouraged to contact Dr. Cai about potential projects.

Learn more 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.

Research Areas:

Current research interests of the lab include:

- Scalable statistical methodology;
- High-dimensional statistics;
- Dependence modeling and analysis;
- Machine learning and data science;
- Statistical consulting and interdisciplinary research.

Possible Research Activities:

Depending on background and interests, research assistants may contribute to:

- Data cleaning, visualization, and statistical analysis;
- Implementing statistical or machine learning methods;
- Conducting simulation studies and computational experiments;
- Reviewing and summarizing relevant research literature;
- Assisting with interdisciplinary research and consulting projects.

Who may Apply:

Undergraduate and graduate students in statistics, mathematics, data science, computer science, engineering, or other quantitative disciplines are welcome to express interest.

Prior research experience is **not required**. Applicants should ideally demonstrate some of the following:

- Basic coursework in statistics, mathematics, or data analysis;
- Programming experience in R, Python, MATLAB, or another language;
- Interest in statistical modeling, computation, or data science;
- Willingness to learn new mathematical or computational tools;
- Reliability and ability to communicate research progress.

Students with strong backgrounds may have opportunities to participate in more advanced methodological projects.

What You Can Gain:

Research assistants can gain experience in the complete research process, including statistical modeling, computation, interpretation, and presentation of results. Depending on contribution and project progress, opportunities may include:

- Individual research mentoring;
- Training in statistical methodology and scientific computing;
- Experience working with real-world research problems;
- Participation in research presentations or academic conferences;
- Potential contribution to research papers, software, or other scholarly work;
- Preparation for graduate study, industry research, or data science careers.

How to Express Interest:

Interested students may contact Dr. Cai with:

- CV or resume;
- Unofficial transcript;
- A brief description of research interests and relevant experience;
- (Optional) Links to projects, code repositories, publications, or other relevant work.

Please send materials or questions to yizhouc@txstate.edu with the subject line "Research Assistant Opportunity."

More Information:

- [Dr. Yizhou Cai's Faculty Profile](#)
- [Texas State Department of Mathematics](#)