WHERE ARE OUR ALUMNI NOW?

Our graduates have enjoyed remarkable professional success in a wide variety of careers.

"One of the best parts about the math department at TCU is the faculty. They see your true potential and encourage you to reach it, in academics and beyond. It is clear that the department sees its students not simply as numbers in a classroom but as individuals they can help grow and thrive as they prepare for their futures."

Anne Marie Hatton '22
MS in Mathematics
Health Care Service Corporation as an Operations Performance Management Consultant

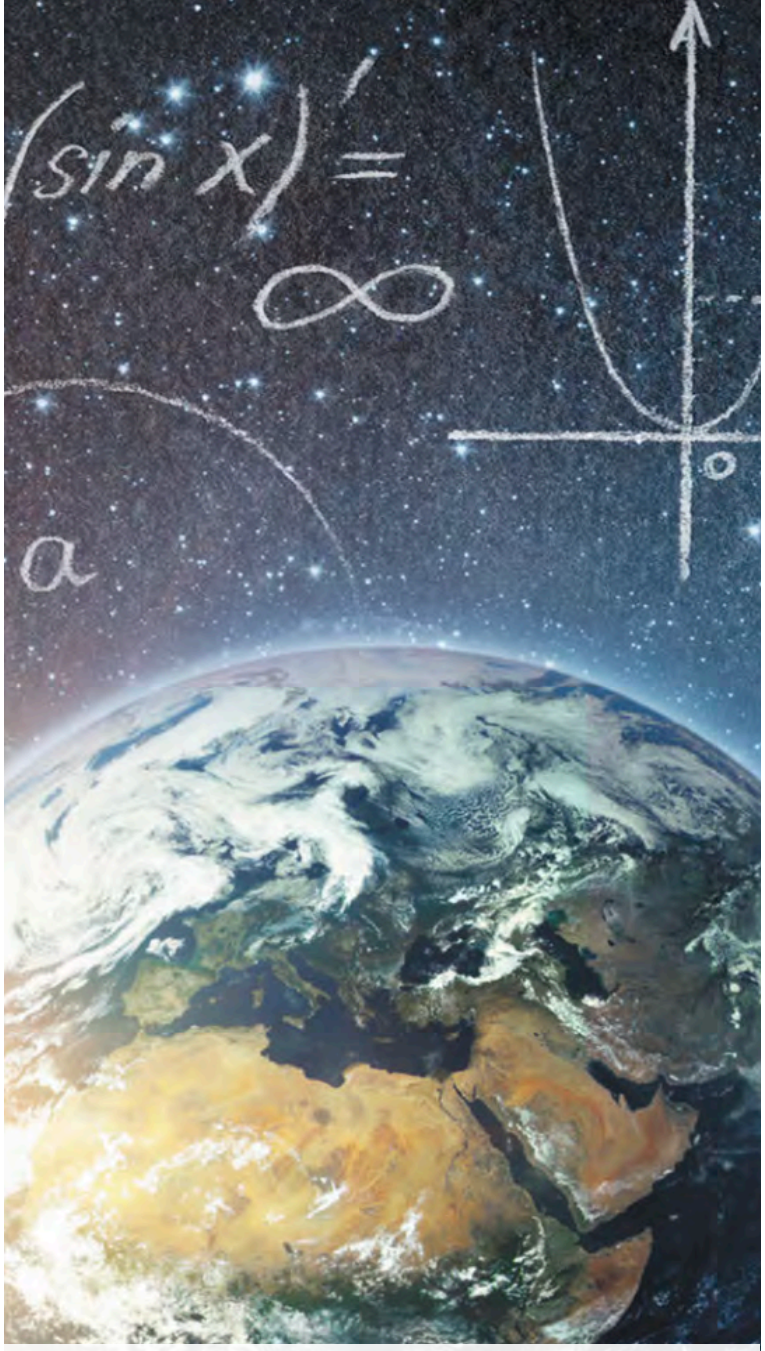
"I learned from a venerable team of professors with very high research expertise in many branches of mathematics. I enjoyed the ample opportunities for student-to-faculty interaction. Indefatigable support in all respects characterizes the program. It is a lovely welcoming place for people from any ethnicity."

Shariful Islam '19
PhD in Mathematics
Associate Professor of Mathematics, University of Dhaka, Bangladesh

"What made my experience in TCU's math department so remarkable was the exemplary mentorship by my dissertation advisor Dr. Scott Nollet."

Luis G. Aguirre '18
PhD in Mathematics
Associate Professor of Mathematics, Texas Wesleyan University

COME *explore* WITH US!



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TCU

LOUISE DILWORTH DAVIS
COLLEGE *of*
SCIENCE & ENGINEERING

Department of Mathematics

EXPLORE MATHEMATICS

Your adventure starts here!

MATHEMATICS GRADUATE PROGRAMS

OUR GRADUATE PROGRAMS

At TCU, our students gain foundational understanding of rigorous mathematics, leading them to analyze important questions in research areas and to develop computational tools that are widely applicable. The Department of Mathematics offers three graduate degree options:

Doctor of Philosophy (Ph.D.)

The TCU Doctor of Philosophy (Ph.D.) degree in mathematics is designed for students who desire to do original research in pure mathematics and who desire to teach at the college/ university level or to do mathematical data analysis in industry and research labs. After each doctoral student acquires a strong mathematical foundation in algebra, real and complex analysis, and topology, the student concentrates on one of the research specialties of the TCU mathematics faculty. Accepted Ph.D. students receive free tuition, a stipend ($30,500 per year for 2026-27), and 85% of their student health insurance cost paid.

Master of Science (MS)

TCU's Master of Science (MS) degree in mathematics features both a pure and an applied track. The pure track primarily prepares students for doctoral work in mathematics, whereas the applied track equips students with mathematical tools applicable in industry. The program provides a broad knowledge of mathematics and its history, teaches problem solving skills and exposes students to the general philosophy of mathematics.

Master of Arts in Teaching (MAT)

The Master of Arts in Teaching (MAT) degree program in mathematics serves to prepare highly qualified teachers of mathematics at the secondary and two-year college levels. The program gives broad knowledge and skills in mathematics and exposes students to the general philosophy of mathematics alongside specific techniques for teaching mathematics.

FOR MORE INFORMATION

AREAS OF RESEARCH

TCU's mathematics program is small. Students interact one-on-one with award-winning professors and do research in a wide variety of areas including:

- Number Theory
- Differential Geometry
- Global Analysis
- K-Theory
- Operator Algebras
- Algebraic Geometry
- Harmonic Analysis
- p-adic Groups
- Algebraic Topology
- Signal Processing & Data Science

PREPARING OUR STUDENTS

Students are not thrown into the classroom. Student duties are 10 hours per week, including tutoring in the math clinic, or teaching a maximum of one course per semester. The student may teach only after 18 hours of math and a pedagogy course, and they work with a faculty mentor. Our students typically get jobs in smaller colleges and in industry (in the DFW metroplex and elsewhere). Through our weekly graduate student seminars and targeted coursework, our students learn job skills such as LaTeX, web development, coding with various computing platforms, data science, interviewing skills. Competitive stipends are available for our math PhD students ($30.5k in 2026-2027).