



Department of Mathematics

WHAT DO MATHEMATICIANS DO?

Having a passion for problem-solving and analysis, mathematicians are essential to the world for their ability to interpret facts, figures and numbers to communicate solutions for everyday challenges.

Through analysis, mathematicians apply theories and techniques to solve practical problems in business, engineering, the sciences and other fields. Through thorough research, mathematicians can carefully examine data and communicate to technical and non-technical audiences.

Mathematicians find work in any field that benefits from data analysis, including government, education, healthcare, development and research. Mathematicians use their knowledge and findings to influence policy reform, increase awareness, identify trends and improve conditions through problem-solving.

2021 MEDIAN PAY FOR MATHEMATICIANS

\$96,280

Bureau of Labor Statistics, U.S. Department of Labor,
www.bls.gov/ooh/math/mathematicians-and-statisticians.htm

WHY STUDY MATHEMATICS AT UT?

The Department of Mathematics provides students with an extensive educational background in mathematics, mathematics with computer science, actuarial science and data science.



The department encourages students to develop their own interests under the guidance of faculty. Students may take part in independent study or faculty-student research projects. They also have opportunities to present research papers at annual meetings sponsored by the Mathematical Association of America. Students and faculty members attend these meetings, at which mathematicians from around the world speak on the most recent advances in the field.

Jobs held by recent graduates include actuary, consultant, statistician, data scientist, educator, researcher and software designer. An undergraduate degree in mathematics from UT also provides excellent preparation for graduate school.

DEGREE OPTIONS IN MATHEMATICS AT UT

UT's mathematics department offers four majors including Actuarial Science, Data Science, Mathematics, and Mathematics with Computer Science. In addition, Secondary Mathematics Education is offered by the Education Department in coordination with the Mathematics Department.



FACULTY PROFILES



ANGELA ANGELESKA

Associate Professor, Mathematics

Angela Angeleska specializes in applied mathematics to biology. Her research area is in graph theory and its applications to natural computing, modeling of bio-molecular processes, and studying the clustering problem in biochemical networks. She teaches Discrete Mathematics, Modern Abstract Algebra and courses in the Calculus sequence. She has been the Math Club advisor and the Internship Coordinator in the math department for a decade. Angeleska has also held positions as a visiting researcher at Princeton University, The Max Planck Institute in Germany, and the BI Norwegian Business School-Oslo.



KHYAM PANERU

Associate Professor, Statistics

Khyam Paneru's research interest is in applied statistics and actuarial science, focusing on data visualization, modeling and prediction. He has collaborated on research projects in different areas, such as business, economics, education, agriculture and teaching and learning. He is the author of multiple research articles published in recognized peer-reviewed journals. He presented his research at regional, national and international conferences. He mentored multiple undergraduate research projects and received undergraduate research grants.



BINOD RIMAL

Assistant Professor, Data Science, Mathematics

Binod Rimal's research is centered on exploring innovative machine learning/deep learning architectures to achieve accurate and efficient forecasting of sequential data. He investigates the performance of recurrent neural networks and transformer-based architectures in stock price prediction and investment portfolio construction, with the primary goal of enhancing the model's capacity to capture long-term dependencies and intricate patterns within the sequential data. His published works in peer-reviewed journals hold the potential to significantly impact decision-making processes and empower intelligent systems to respond adeptly to dynamic real-world scenarios.

FULL-TIME FACULTY

Elsayed Ahmed

Angela Angeleska

Taoufik Bahadi

Colleen Beaudoin

Stephanie Branham

Antony Cheng

Anirban Dawn

Kari Fowler

Brian Garman

Laura Hauser

Sasko Ivanov

Lacey Johnson

Leslie Jones

Netra Khanal

Morgan McAnally

Khyam Paneru

Douglas Pfeffer

Binod Rimal

John Sumner



UT MATHEMATICS COURSE OFFERINGS INCLUDE:

DSC 101 Introduction to Data Science

MAT 272 Applied Statistics

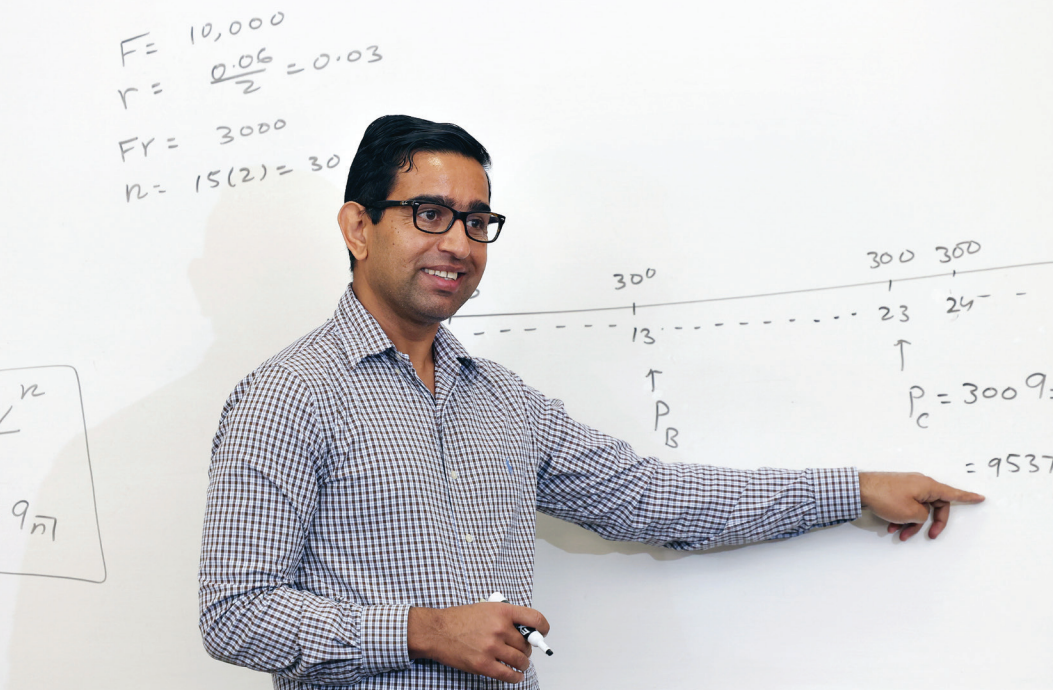
MAT 310 Probability

MAT 311 Financial Mathematic

DSC 401 Data Science Capstone

MAT 402 Applied Regression Analysis

MAT 425 Mathematical Statistics



STUDENT ORGANIZATIONS

- The Math Club
- The Pi Mu Epsilon Mathematics Honor Society
- The Actuarial Club
- Data Science Club

HONORS PROGRAMS

The University of Tampa's comprehensive Honors Program motivates the most gifted students to aspire to excellence, providing them with the rigorous and supportive academic environment needed to become leaders in their profession or in the community.

The Honors curriculum is uniquely designed to develop advanced critical thinking and communication skills. Students in UT's Honors Program have a distinct general education rooted in interdisciplinary thinking, original research and inquiry. Smaller classes and engaged pedagogy provide students with a challenging exploration of the natural and social sciences and the humanities.

WHAT CAN YOU DO WITH THIS MAJOR?

Math majors find themselves in demand by employers for careers in a wide spectrum of fields.

A bachelor's degree in mathematics will prepare you for jobs in:

- Statistics
- Actuarial Sciences
- Mathematical Modeling
- Biotech and Biomathematics
- Data Science
- Education
- Operations Research
- Analysis of Codes and Coding Methods
- Mathematics Education
- Statistical Analysis
- Computer Systems Analysis
- Network Administration
- Technical Consulting



ALUMNUS PROFILE

NOAH SEGAL '22

B.S. Actuarial Science,
University of Tampa
2022

Noah Segal is a Medical Economics (Actuarial) Analyst at Aetna/CVS Health Company. He joined the company following his graduation in May'22. His duties include explaining medical cost trends and analyzing the impacts of changes in policy, contracting and benefit changes.

During his final semester at UT, Noah had an internship with Wakely Consulting Group (Actuarial Intern) in Tampa.

"The professors are such an integral part of the math program and make the program special. I owe my success to their guidance and mentorship as they helped me flourish in actuarial science and mathematics. The classes and projects I worked on helped develop my math and statistics skills that I can transfer to my work and do more advanced analytics and technical skills. Exams and getting credentialed from the SOA/CAS can be daunting, but with my professor's help I passed multiple actuarial exams and secured a full-time job in the field."

FEATURED STUDENTS



DOMINIC FANUTTI '26

Major: Actuarial Science and Music BA in Performance

Honors: All 4.0 GPA, Dean's List for Fall '22 and Spring '23, Outstanding Musicianship Award for Performance

"What I enjoy the most about UT's mathematics program are the faculty who light a guiding path to success. For those interested in the department, I can assure you the educators will take the time to advance your degree with milestones in sight.

"I felt comfortable in my first year because the faculty helped me plan a timeline I could refer back to. Staying on track means a lot to me and I get to have fun too!"



HOPE POHLMAN '24

Major: Mathematics BS, Psychology BA, Philosophy BA, Pre-Law

Activities:

- Justice on the Judicial Advisory Board of Student Government, ('22-24)
- Summer Undergraduate Research Fellowship Grant Recipient (Summer '23)
- Founder and CEO of Math Minds Tutoring ('23-24)
- Selected to be the Student Speaker at the College of Social Sciences, Mathematics, and Education Convocation Ceremony (Fall '23)

"The math department is filled with incredibly kind and dependable professors who have taught me so much during my time at UT. Going to math class is always my favorite part of the day; I've gotten to know many of the other students because our classes are so small, and the professors are always so enthusiastic about teaching. They are compassionate and take a real interest in your well-being, but also know how to make classes light-hearted and enjoyable for their students. If I could do it over again, I would always choose to be a math major, not just because I love math, but also because I love the people, both students and professors alike, that I've gotten to work with within the Math Department."

“ One of my favorite moments at UT was taking our Applied Regression Analysis course. Seeing more advanced statistics and learning more technical skills was a highlight of the course work. The class was so fun as we did work related to real world data and work with Dr. Paneru on projects/presentations that are very applicable to work I currently do. ”

— **Noah Segal** '22 Alumnus

RECENT PLACEMENTS

Abbey Hill (B.S. Actuarial Science, May 2022) had an internship with Wakely Consulting Group (Actuarial Intern) in Tampa during Summer 2021. Following her graduation in May 2022, she started working full-time at Wakely as Actuarial Analyst.

Morgan Woods (B.S. Mathematics, B.S. Actuarial Science, May 2023) had an internship with Sagikor Life Insurance Company (Actuarial Intern) in Tampa during Spring 2022. Following her graduation in May 2023, she started working full-time at Mercer in Tampa as Senior Actuarial Analyst.

Steven Downs (B.S. Actuarial Science, May 2023) had an internship with Sagikor Life Insurance Company (Actuarial Intern) in Tampa during Fall 2022 and Spring 2023. Following his graduation in May 2023, he started working full-time at Sagikor as Actuarial Analyst.



To learn more about UT's Department of Mathematics, contact

Dr. Leslie Jones at lbjones@ut.edu.