GRADUATE PROGRAMS

The graduate programs are designed to produce mathematicians who are highly qualified to enter professions in academia and the industrial and governmental sectors.

PH.D. DEGREE IN MATHEMATICS

This program offers doctoral degrees in Mathematics with specialization in algebra, applied mathematics, computational mathematics, data science, geometry, mathematical biology, mathematics education, probability, and statistics. In addition, the program offers an interdisciplinary Ph.D. degree in mathematics and computer science focusing on data science. There are two different routes to obtain the Ph.D. degree:
(1) obtain an M.S. degree first and then enter the Ph.D. program; or (2) enter the Ph.D. program directly with a B.S. degree.

M.S. DEGREE IN MATHEMATICS

This program develops independent research skills and prepares students for more advanced study in mathematics. The program offers specialization in several areas including applied mathematics, computational mathematics, data science, mathematics education, pure mathematics, and statistics.

M.A. DEGREE IN MATHEMATICS

This program is designed for those who are interested in strengthening their understanding of mathematics and enriching their mathematics teaching. The program embraces a philosophy of teaching and learning mathematics that is consistent with the landmark standards documents produced by the National Council of Teachers of Mathematics and focuses on enhancing mathematics teaching through preparation in topics grounded in secondary school mathematics from an advanced standpoint.

CERTIFICATE OF APPLIED STATISTICS

This program offers individuals with an undergraduate degree an opportunity to receive graduate instruction in applied statistics as a means of maintaining and enhancing their professional development.

The Department of Mathematics at the University of Texas at Arlington is a major center for mathematics research and education in the Dallas/Fort Worth metropolitan area and North Texas. It serves more than ten thousand students every year and features nationally recognized faculty with outstanding accomplishments in teaching, research, and service. The American Mathematical Society named the University of Texas at Arlington the winner of its **2013 AMS Award for an Exemplary Program or Achievement in a Mathematics Department**. The department faculty members are well known for their accomplishments in teaching and research. Among them are a fellow of the UT System Academy of Distinguished Teachers, five members of the UTA Academy of Distinguished Teachers, five UT System Regent's Outstanding Teaching Award winners, and several recipients of university and state level teaching awards. In addition, most mathematics faculty members' research is supported by the National Science Foundation, National Security Agency, Air Force Office of Scientific Research, Department of Education, Department of Defense, National Institutes of Health, and Texas Higher Education Coordinating Board.

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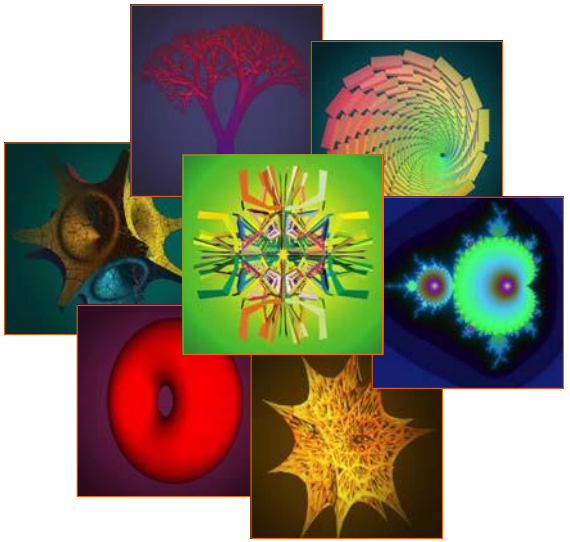
UNIVERSITY OF TEXAS ARLINGTON

MATHEMATICS GRADUATE STUDIES



2019-2020

GRADUATE STUDIES IN MATHEMATICS AT THE UNIVERSITY OF TEXAS AT ARLINGTON

FINANCIAL SUPPORT

Graduate enrollment in the Department of Mathematics has more than doubled over the last five years. There are currently over 100 graduate students in the master's and doctoral programs. Our department attracts talented students from across the nation and the world by its friendly environment, generous financial support, strong mentoring programs, distinguished faculty, and ideal location for job placement and professional opportunities.

Most doctoral students receive support as graduate fellows or graduate teaching or research assistants. Financial support can come in the form of:

- **GAANN FELLOWSHIPS**
- **GTA STIPENDS**
- **GRA STIPENDS**
- **NSF BRIDGE-TO-MATH-DOCTORATE ASSISTANTSHIPS**
- **BRIDGE TO THE DOCTORATE (LSAMP-BD) FELLOWSHIP**
- **MATHEMATICS GRADUATE SCHOLARSHIPS**
  - S. R. Bernfeld Memorial Scholarship
  - M. B. and W. G. Ray Fellowship
  - B. M. McCarley Scholarship Endowment

with available additional summer support.

CONTACT INFORMATION

Dr. Hristo V. Kojouharov
Graduate Advisor, Ph.D. & M.S. Programs
E-mail: hristo@uta.edu

Dr. James A. M. Alvarez
Graduate Advisor, M.A. Program
E-mail: james.alvarez@uta.edu

FACULTY RESEARCH

Our active research faculty members have strengths that lie in pure and applied mathematics, data science, statistics, and mathematics education; and many of their research projects are supported by external grants.

Aktosun, Tuncay, Professor
Ph.D., Indiana University, 1986
Inverse Problems and Wave Propagation

Alvarez, James, Professor
Ph.D., University of Texas - Austin, 1996
Undergraduate Mathematics Education

Ambartsoumian, Gaik, Associate Professor
Ph.D., Texas A&M University, 2006
Computerized Tomography and Integral Geometry

Chen-Charpentier, Benito, Professor
Ph.D., California Institute of Technology, 1979
Applied and Computational Mathematics

Cordero, Minerva, Professor
Associate Dean of Science for Academic Affairs
Ph.D., University of Iowa, 1989
Finite Geometries

Gornet, Ruth, Associate Professor
Ph.D., Washington University - St. Louis, 1993
Inverse Spectral Geometry

Grantcharov, Dimitar, Professor
Ph.D., University of California - Riverside, 2003
Representations of Lie Algebras and Superalgebras

Jorgensen, David, Professor
Associate Chair of the Department
Ph.D., University of Nebraska - Lincoln, 1996
Commutative Algebra

Jorgensen, Theresa, Associate Professor
Ph.D., University of Nebraska - Lincoln, 2000
Mathematics Education of Teachers

Kojouharov, Hristo, Professor
Ph.D., University of Wyoming, 1998
Numerical Analysis and Mathematical Biology

Korzeniowski, Andrzej, Professor
Ph.D., Wroclaw University (Poland), 1978
Probability Theory and Stochastic Processes

Kribs, Christopher, Professor
Ph.D., University of Wisconsin - Madison, 1997
Mathematics Education and Mathematical Biology

Li, Ren-Cang, Professor
Ph.D., University of California - Berkeley, 1995
Numerical Analysis and Scientific Computing

Liao, Guojun, Professor
Ph.D., University of California - Berkeley, 1985
Grid Generation and Differential Geometry

Liu, Chaoqun, Professor
Ph.D., University of Colorado at Denver, 1989
Computational Fluid Dynamics

Liu, Yue (David), Professor
Ph.D., Brown University, 1994
Partial Differential Equations

Nestell, Merlynd, Professor
Ph.D., Oregon State University, 1966
Integral Equations

Pal, Suvra, Assistant Professor
Ph.D., McMaster University (Canada), 2014
Survival Analysis and Statistical Computing

Roy, Souvik, Assistant Professor
Ph.D., Tata Institute of Fundamental Research, 2015
Inverse Problems and PDE Optimal Control

Shipman, Barbara, Associate Professor
Ph.D., University of Arizona, 1996
Geometry and Hamiltonian Dynamical Systems

Su, Jianzhong, Professor
Chair of the Department
Ph.D., University of Minnesota, 1990
Partial Differential Equations

Sun-Mitchell, Shan, Professor
Ph.D., Indiana University, 1992
Mathematical Statistics

Vancliff, Michaela, Professor
Ph.D., University of Washington, 1993
Non-Commutative Algebra and Algebraic Geometry

Wang, Li, Assistant Professor
Ph.D., University of California - San Diego, 2014
Optimization and Data Science