

GRADUATE PROGRAM IN

MATHEMATICS

MISSION STATEMENT

The mission of the Department of Mathematics is to teach mathematics to our undergraduate and graduate students; to do research in the mathematical sciences; and to provide mathematical resources to the University and the State of Alabama. Our goal is to achieve a national reputation for doing all three well.

A SAMPLING OF RECENT PH.D. GRADUATES

2017	Cong Hoang	James Madison University
	Xin Luo	Wilkes University
	Bryan Sandor	Bethel University
	Huy Vo	Colorado State University
	Erin Watley	University of Alabama
2016	Toyin Alli	University of Georgia
	Anne Duffee	University of the South
	Veny Liu	University of Hawaii West Oahu
	Kaitlyn Perry	Wingate University
2015	Laxmi Chataut	University of South Alabama
	Duc Nguyen	Michigan State University
	Nguyen Duong	SUNY Oneonta
	Soumyadip Acharyya	Embry-Riddle Aeronautical University

Current 5th Year Students



Alexander Barnes



Phylisicia Carter



Khanh Dinh



Tania Hazra



Xuan He



David Neal



Zhihan Wei

GRADUATE DEGREE PROGRAMS

Master of Arts

PhD in Mathematics

PhD in Applied Mathematics

UNDERGRADUATE MAJORS: 400

FALL 2017 GTA & FELLOWSHIPS: 37

GRADUATE STUDENTS: 41

ACCELERATED MASTER'S PROGRAM STUDENTS: 20

FINANCIAL SUPPORT FOR GRADUATE STUDENTS

Faculty Research Grants

Fellowships

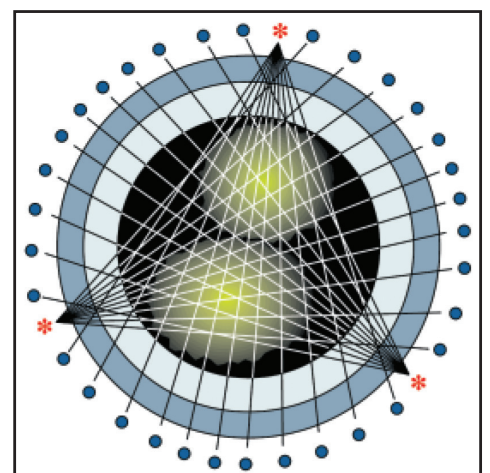
Teaching Assistantships

Tuition Waivers

University Scholarships

STIPEND RATES

The current stipend is \$17,964.00 plus a tuition waiver for the academic year (August – May). The stipend amount is adjusted periodically to reflect increases in living expenses. Additional summer support is sometimes available.



FACULTY RESEARCH AREAS

ALGEBRA

Paul Allen, *Group theory, ring theory*
Jon Corson, *Geometric group theory*
Martyn Dixon, *Infinite group theory*
Martin Evans, *Infinite group theory*

ANALYSIS

Oleksandra Beznosova, *Harmonic analysis*
David Cruz-Uribe, *Harmonic analysis, PDEs*
Tim Ferguson, *Complex analysis, operator theory, harmonic analysis*
Hyun-Kyoung Kwon, *Complex analysis, operator theory, harmonic analysis*
Kabe Moen, *Harmonic analysis, PDEs*
Robert Moore, *Hilbert space, operator algebras*
Robert Olin, *Functional analysis, operator theory*
James Wang, *Real and complex analysis, functional analysis*

TOPOLOGY

Jon Corson, *Low dimensional topology*
Lawrence Roberts, *Low dimensional topology, homology theory, knot theory*
Vo Liem, *Geometric topology*
Bulent Tosun, *Low dimensional topology, contact and symplectic geometry*
Bruce Trace, *Geometric topology*

MATH EDUCATION

Jim Gleason, *Mathematical knowledge for teaching, educational measurement*
Martha Makowski, *Math education, developmental math, STEM access, quantitative and mixed methods*

APPLIED & COMPUTATIONAL MATHEMATICS

Brendan Ames, *Optimization, machine learning*
Stavros Belbas, *Optimal control, game theory*
Shibin Dai, *nonlinear PDEs, applied analysis, and numerical analysis*
Layachi Hadji, *Fluid dynamics, materials science*
David Halpern, *Fluid dynamics, mathematics in the life sciences, scientific computing*
Mojdeh Rasoulzadeh, *Homogenization method, flow and transport in heterogeneous porous media*
Roger Sidje, *Numerical methods for ODEs, numerical linear algebra, computational biology*
Min Sun, *Modeling, simulation, global optimization, game theory*
Shan Zhao, *Numerical methods for PDEs, mathematical methods for molecular biology*
Wei Zhu, *Image processing, numerical methods for PDEs*

STATISTICS

Yuhui Chen, *Big data analysis, Bayesian nonparametric modeling, survival models, statistical computing*

CONTACTS

The University of Alabama
Department of Mathematics
345 Gordon Palmer
Box 870350
Tuscaloosa, AL 35487-0350
(205) 348-5071
<http://math.ua.edu>

Dr. David Halpern
Graduate Program Director
(205) 348-1977
dhalpern@ua.edu

Dr. David Cruz-Uribe, OFS
Department Chair
(205) 348-5074
dcruzuribe@ua.edu

Mrs. Natalie Lau
Graduate Program Assistant
(205) 348-5071
klau@ua.edu



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