GRADUATE PROGRAM IN

THE UNIVERSITY OF ALABAMA®

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

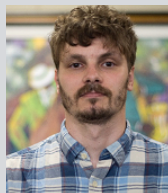| 2018 | Alexander Barnes | Young Harris College |
	Phylisicia Carter	University of Alabama
	Khanh Dinh	Rice University
	Xuan He	MathWorks, Inc.
	Mingwei Sun	Samford University
2017	Cong Hoang	James Madison University
	Xin Luo	Wilkes University
	Bryan Sandor	Bethel University
	Huy Vo	Colorado State University
	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

Current 4th and 5th Year Students

Sheik Ahmed Ullah   Keisha Cook   Timothy Homan

Brandon Reid   Siwen Wang   Xuan Wang

GRADUATE DEGREE PROGRAMS

Master of Arts
PhD in Mathematics
PhD in Applied Mathematics

UNDERGRADUATE MAJORS: 450

FALL 2018 GTA & FELLOWSHIPS: 35

GRADUATE STUDENTS: 39

ACCELERATED MASTER'S PROGRAM STUDENTS: 17

FINANCIAL SUPPORT FOR GRADUATE STUDENTS
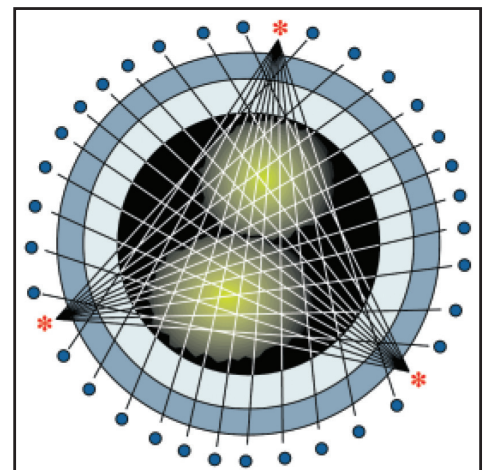
Faculty Research Grants
Fellowships
Teaching Assistantships
Tuition Waivers
University Scholarships

STIPEND RATES

The current stipend is $18,100.00 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*
Kabe Moen, *Harmonic analysis, PDEs*
Robert Olin, *Functional analysis, operator theory*

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*
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, *Mathematical modeling of flow in heterogeneous porous media*
Dang Nguyen, *Stochastic processes, optimal control, mathematical biology*
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*
Chuntian Wang, *PDEs, stochastic PDEs, statistical-stochastic modeling*

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

THE UNIVERSITY OF
ALABAMA®

College of
Arts & Sciences
Department of Mathematics

The College of Arts and Sciences
as.ua.edu

The Department of Mathematics
math.ua.edu