Mathematics

College of Arts and Sciences

Ph.D. and Master's degrees in Mathematics

At South Carolina you develop mathematical skills for research and a career. You bring your passion for mathematics, we add **opportunities.** The result is **exponential growth.**

Ready to apply now?

GET STARTED

Here's proof

Our graduates go on to work in technology, industry, academia, and government.

"UofSC faculty and researchers all over the world introduced me to state-of-the-art research in a variety of hot research areas. The guidance from my advisor helped me build a solid math background and finally become a machine learning engineer."

— **Entao Liu,** Systems Engineer, Texas Instruments

Research focus

We will pair you with a Ph.D. mentor who will involve you in ongoing research and help you find your focus.

37

Our departments has **37** tenured and tenure-track faculty engaged in high-level research in most major areas of modern mathematics.

Special focus research areas are:

Algebra and Number Theory

- Algebraic & arithmetic geometry
- Commutative algebra
- Algebraic & analytic number theory

Applied and Computational Math

- Numerical PDES
- Mathematical modeling
- Mathematical biology
- Structural imaging
- Machine learning
- Data science

Discrete Math

- Combinatorics
- Graph theory; applications to biology
- Computer science
- Geometry
- Network science

Interdisciplinary

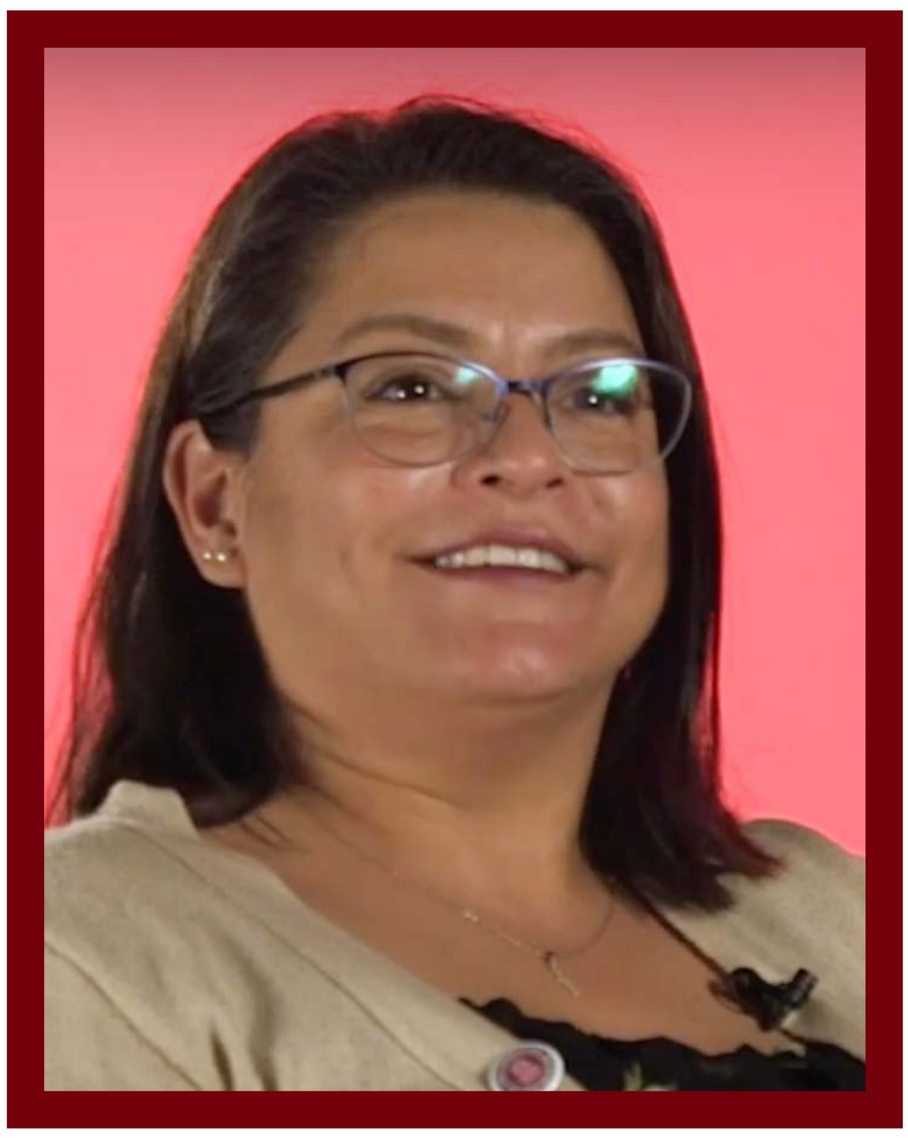
Our research impacts more than math.

We collaborate across campus and worldwide on research related to:

- Biology
- Chemistry
- Computer science
- Chemical engineering
- Materials science

Data science is a strong and growing field at UofSC, which creates opportunities for collaborations between computational math, discrete math, and computer science.

We break down the boundaries between disciplines to give you real-world experience.



"Interdisciplinary research has done more for our progress than individual areas."

— **Paula Vasquez,** Associate Professor, UofSC Mathematics

“I knew I wanted a career in academia, but I didn’t know how much of a role research would play in my future. My professors were very attentive to my goals and helped me choose an advisor who would open the most opportunities for me.”

— **Heather Smith,** Assistant Professor of Mathematics and Computer Science, Davidson College

Professional development

Here, you will build the skills you want for the career you will love.

Become the head of the class

- Teaching seminars
- Peer mentoring program for graduate student instructors
- Cloud-based resources for graduate student instructors
- Become instructor of record for undergraduate courses

Real-world experience

- Connections to national laboratories and industry
- Opportunities for summer internships and research fellowships

Professional organizations

- Society for Industrial and Applied Mathematics
- Association for Women in Mathematics
- Some travel funding is available for research conferences

Dollars and cents

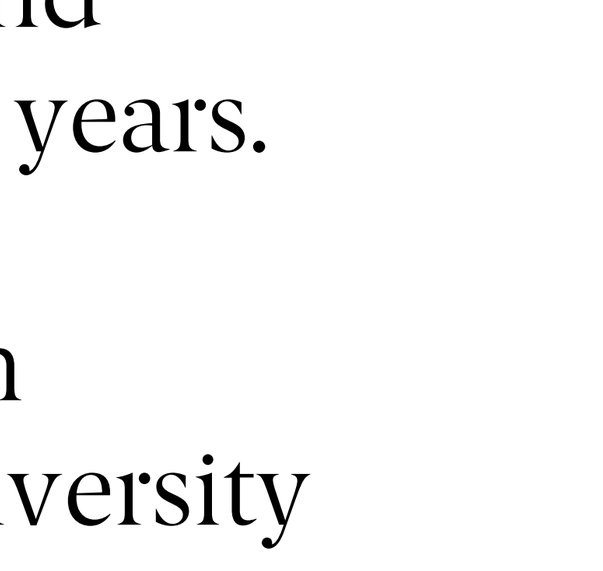
Our Ph.D. students have one of the most competitive financial packages in the Southeast.

- Full tuition waiver
- $19,500+ stipend
- Fellowships available from $4,000 - $8,000
- Research assistant funding available for some continuing students
- Affordable living in Columbia, S.C.

A place to live

Columbia, South Carolina, is a charming, thriving capital city. It's big enough that you can do anything, but small enough that you won't feel lost. From outdoor adventure to arts and entertainment, Columbia is a place where you can find community and enjoy your graduate years.

At its center is the University of South Carolina. Established in 1801, the university has more than 34,000 students, including nearly 8,000 graduate students. It is a member of the Southeastern Conference, and it's a hub of Columbia's scene for sports, arts, culture and dining.



“I knew UofSC was a place I could thrive. The faculty were excellent mentors. They helped design research activities that were both challenging and achievable, and pushed me to attend conferences and workshops that made me stand out in the crowd upon graduation.”

— **Aaron Dutle,** Research Computer Scientist,
NASA Langley Research Center

In summary, this is a place where you can take your skills to the next level, launch your career, and enjoy life while you're at it.

READY TO TAKE THE NEXT STEP?

Apply here

The application deadline for the Fall of 2021 is **February 28, 2021.**

QUESTIONS?

Contact us to ask questions.

Visit our website at
go.sc.edu/mathgrad