Applied Mathematics and Statistics, & Scientific Computation Program

Our top-ranked AMSC graduate program opens a world of possibilities with a flexible, interdisciplinary graduate experience like no other.

158 Faculty Members
37 Units Represented
74 PhD Students
5 MS Students
14 US World and News Ranking
3 Specialized Tracks

Choose from 3 flexible tracks + create a study plan tailored to your research interests.

Applied Mathematics

*Expand* the mathematical foundation of applied sciences and engineering.

*Train* in advanced applied disciplines including mathematical modeling and differential equations.

Applied Statistics

*Specialize* in a statistical application with a variety of statistical topics.

*Develop* mathematical and computing skills necessary for modern applied statistical research.

Scientific Computation

*Study* computation in a variety of applied fields: Physical + Life Sciences, Engineering, Business, and Social Science.

*Train* in computational techniques and high performance computing.

Take your research further with local research labs + applied disciplines.

Local Labs + Agencies

Popular Application Areas

- Applied PDEs
- Atmospheric Sciences
- Biology and Medicine
- Computational Fluid Dynamics
- Control theory
- Cryptology
- Econometrics
- Epidemiology and Biostatistics
- Image Processing
- Machine Learning and Data Science
- Mathematical Finance
- Numerical Analysis and Scientific Computing
- Operations Research
- Quantum Computing
- Statistics
- Survey Methodology and Statistics of Social Measurement
**Why choose AMSC?**

**AMSC Graduates are going places.**
Graduates find competitive placements with Duke University, Harvard Medical School, Apple, Google, National Institutes of Health, Department of Energy, Wells Fargo, and Morgan Stanley - to name just a few.

**World-Class Experts + Faculty**
AMSC students receive individualized attention throughout their program and enjoy access to faculty with world-class expertise across several departments.

**Key Location near Washington, D.C.**
The AMSC program is located in a vibrant hub of mathematics, science, technology, medicine, and environmental research and policy, giving AMSC students the opportunity to work with renowned institutions.

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**We are here to help our students succeed.**

**Academic + Career Support**
- Weeklong Math Orientation with TA Training
- AMSC New Student Mentor Program
- AMSC Student Council: [go.umd.edu/amsc-sc](http://go.umd.edu/amsc-sc)
- Women in Math: [wim.math.umd.edu](http://wim.math.umd.edu)
- University Career Center & The President's Promise: [careers.umd.edu](http://careers.umd.edu)

**Life + Wellness Support**
- University Health Center: [health.umd.edu](http://health.umd.edu)
- University Recreation and Wellness: [recwell.umd.edu](http://recwell.umd.edu)
- Transportation Services: [transportation.umd.edu](http://transportation.umd.edu)
- Graduate Student Life Office: [go.umd.edu/gs](http://go.umd.edu/gs)
- Off-Campus Housing Services: [och.umd.edu](http://och.umd.edu)
- International Student & Scholar Services Office: [go.umd.edu/issmlink](http://go.umd.edu/issmlink)
- Office of Graduate Diversity and Inclusion: [diversity.umd.edu](http://diversity.umd.edu)

“*The academic structure lends itself well to prepare rigorously for research in applied mathematics because it encourages students to develop a working knowledge of not only mathematics, but also their application area... I wanted to work with the faculty associated with the Norbert Wiener Center for Harmonic Analysis here at UMD. I was interested in applied harmonic analysis, so it felt pretty sensible to choose a program with a dedicated center for this subject!*”

- Shashank Sule, PhD Student

“*When I visited UMD, I was impressed by the opportunities that such an interdisciplinary program could offer...being able to combine math with other more hands-on fields was a big draw for me. It seemed that the AMSC program had a lot of areas where I could apply my research interests.*”

- Victoria Whitley, PhD Student

“I was drawn to the AMSC program by the diverse set of research interests in the faculty. When starting my PhD, I was largely undecided on the specific area of math I was most attracted to, and the faculty were very helpful when discussing their work as well as directing me towards more like-minded professors...the decision to be a Terp was easy!”

- Max Springer, PhD Student