Applied Mathematics and Statistics, & Scientific Computation Program

UNIVERSITY OF MARYLAND 1856

DEPARTMENT OF MATHEMATICS

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

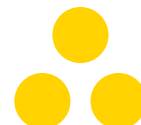| **148** Faculty Members	**44** Units Represented	**76** PhD Students	**4** MS Students	**15** US World and News Ranking	**3** Specialized Tracks

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.*

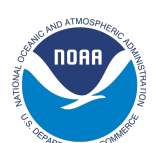*Train* in computational techniques and high performance computing.

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

Local Labs + Agencies

U.S. NAVAL RESEARCH LABORATORY

United States Census Bureau

NASA

CDC Centers for Disease Control and Prevention National Center for Health Statistics

NIH

NOAA — NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, U.S. DEPARTMENT OF COMMERCE

NIH NATIONAL CANCER INSTITUTE

DEVCOM ARMY RESEARCH LABORATORY

APL JOHNS HOPKINS APPLIED PHYSICS LABORATORY

NIST NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY U.S. DEPARTMENT OF COMMERCE

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.

Industry 26%
Academia 47%
Financial 10%
Research Lab 17%
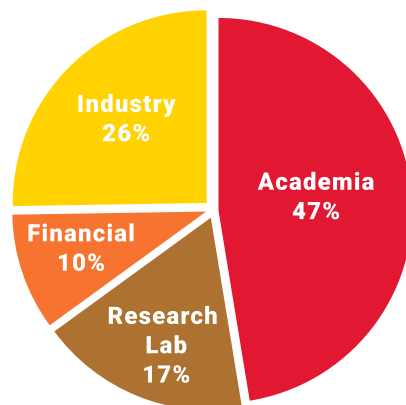
Alumni Placement

We are here to help our students succeed.

🖥 Academic + Career Support

- ☑ Weeklong Math Orientation with TA Training
- ☑ AMSC New Student Mentor Program
- ☑ Graduate Student Committee of AMSC, MATH, & STAT: *https://tinyurl.com/gscams*
- ☑ Women in Math: *wim.math.umd.edu*
- ☑ University Career Center & The President's Promise: *careers.umd.edu*

🩹 Life + Wellness Support

- ☑ University Health Center: *health.umd.edu*
- ☑ University Recreation and Wellness: *recwell.umd.edu*
- ☑ Transportation Services: *transportation.umd.edu*
- ☑ Graduate Student Life Office: *go.umd.edu/gsl*
- ☑ Off-Campus Housing Services: *och.umd.edu*
- ☑ International Student & Scholar Services Office: *go.umd.edu/issslink*
- ☑ Office of Graduate Diversity and Inclusion: *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