Why Study Applied Mathematics?

Faculty and students at the University of Washington's Department of Applied Mathematics are exploring applications in the fields of neuroscience, medical imaging, evolutionary biology, mathematical ecology, oceanography, physics, mathematical finance, economics, among others, using computational and analytical methods. Whatever current scientific area is of interests to you, applied mathematics offers you the tools to use the mathematical framework underlying that area to better our understanding of specific problems.

Our students graduate with the knowledge, the experience, and the ability to be leaders in a society that exhibits increasing demands for competence in communication, computation, and quantitative analysis. Applied mathematics encompasses some of the most diverse and interdisciplinary research in the physical, engineering, and biological sciences, which is what is needed in order to address the problems that we face today and in our future.

Why Study AMATH at The University of Washington?

At the University of Washington, Amath graduate students find a culture of excellence and respect within a warm, collegial atmosphere that encourages exceptional research. PhD Students engage with faculty one-on-one in pursuing their research interests. We offer a broad curriculum of graduate courses in applied mathematics to provide students with the tools they need to succeed, and we offer different degree options tailored to our student's academic goals:

- PhD program
- AMATH MS On-campus Program
- AMATH MS Online Program
- CFRM Program
- Interdisciplinary PhD in Computational Molecular Biology

Importantly, our faculty create an open atmosphere while striving to expand their research and publication goals. In fact, our faculty members have written many textbooks that are widely used here and at other institutions, and we have been ranked 4th in the nation in applied mathematics by the Faculty Scholarly Productivity Index (2007). The University itself is ranked 16th in the world, according to the ARWU. For more information about research statistics of the UW, please click here.
Equally important, the city of Seattle provides all services and entertainment options that should be expected from an international metropolis. In addition, the Pacific Northwest provides unequaled possibilities in terms of access and scenic beauty, for those interested in hiking, backpacking, rock climbing and mountaineering.

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