

The Systems Modeling and Analysis Ph.D. Program

An applied mathematical sciences doctoral degree

Why Systems Modeling and Analysis?

- Perform cutting edge applied research with world experts in 4 core areas: operations research, statistical sciences, mathematical biology and discrete mathematics
- A rigorous program with an emphasis on both methodology and application

The core faculty are in 2 departments in the College of Humanities and Sciences:

- Mathematics and Applied Mathematics
- Statistical Sciences and Operations Research

Many faculty collaborate with scientists in VCU's School of Business, School of Medicine, Health System, Life Sciences, College of Engineering, Psychology, School of Social Work, and outside of VCU

Our graduates develop a unique combination of skills that make them competitive for both industrial **and** academic jobs

For more information visit: www.sysm.vcu.edu



VCU

VIRGINIA COMMONWEALTH UNIVERSITY

Alumni



Derick Rivers, Ph.D. (2014)
Mathematical Statistician, Food & Drug Administration

"I am honored to be a part of this program; the faculty are well established and encourage [independent] thinking."

Benjamin Grannan, Ph.D. (2014)
Assistant Professor, Virginia Military Institute

"[The program] provides students with a theoretical and applied skill set to solve and analyze many important problems"



Sudarshana Srinivasan, Ph.D. (2014)
Research Scientist, Altria, Inc.

"The distinguished faculty at VCU are role models that continue to inspire me; they are all approachable."

Nika Lazaryan, Ph.D. (2015)
Research Analyst, Federal Reserve Bank of Richmond

"My experience was invaluable due to the people in the program - I worked with the most inspiring, supportive and caring teachers, and friends; their guidance and encouragement made me the researcher I am today."



VCU is a large public research university with a diverse student body located in Richmond, Virginia. Richmond is a vibrant city on the James River with a rich culture, history, and so much more.



Full time students are eligible for **Doctoral/Graduate Assistantships** that cover tuition and provide a stipend for living expenses.

Competitive applicants will have:

- An interest in one or more of the following methodologies: **statistics, optimization, stochastic processes, dynamical systems, graph theory, combinatorial analysis, applied analysis, numerical methods.**
- An interest in one or more of the following application areas: **ecology, cell/neurobiology, molecular biology, computational medicine, bioinformatics, homeland security, cryptography, communications and machine conjecturing.**
- An undergraduate degree in a STEM field, including but not limited to: **mathematics, statistics, industrial and systems engineering.**

Our program attracts many professionals in industry and we have a mixture of part-time and full time students.

For more information, including how to apply, visit: www.sysm.vcu.edu.