

## RESEARCH PATHWAYS

# MATHEMATICAL SCIENCES

Undergraduate research is a cornerstone of our mission at Rutgers–Camden. Our goal is to provide as much support as possible for you to have a successful research experience.

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Need funding for a research project or conference travel experience?



We encourage you to visit [go.rutgers.edu/ug-grants](https://go.rutgers.edu/ug-grants) to see what funding opportunities are available. Currently, you can receive up to \$500.00 to offset research expenses and conference travel expenses.

Looking for a research project?



If you know you want to get involved in research, but are unsure of where to start, visit [go.rutgers.edu/curca-hub](https://go.rutgers.edu/curca-hub) to view by subject area and keyword the different research projects seeking undergraduate researchers. Currently, faculty are seeking mathematical sciences majors for the

project:

» "Drones for crowd and traffic surveillance," with Dr. Benedetto Piccoli ([piccoli@camden.rutgers.edu](mailto:piccoli@camden.rutgers.edu)).

Unsure if you are research-ready?

To be research-ready, it is required that mathematical sciences majors take the following course: 50:640:121 Calculus I, 50:640:122 Calculus II, 50:640:221 Calculus III, 50:640:250 Linear Algebra OR 50:640:253 Linear Algebra with Applications, and 50:640:314 Elementary Differential Equations.

Who are the faculty? What do they research? What are their interests?

- » Dr. Nawaf Bou-Rabee ([nb361@camden.rutgers.edu](mailto:nb361@camden.rutgers.edu)): Applied Mathematics and Probability
- » Dr. Siqi Fu ([sfu@camden.rutgers.edu](mailto:sfu@camden.rutgers.edu)): Geometric analysis in several complex variables; spectral theory of partial differential operators
- » Dr. Haydee Herrera-Guzman ([haydeeh@camden.rutgers.edu](mailto:haydeeh@camden.rutgers.edu)): Differential Geometry
- » Dr. Debashis Kushary ([kushary@camden.rutgers.edu](mailto:kushary@camden.rutgers.edu)): Statistics
- » Dr. Benedetto Piccoli ([piccoli@camden.rutgers.edu](mailto:piccoli@camden.rutgers.edu)): Systems biology and traffic modeling
- » Dr. Longmei Shu ([longmei.shu@rutgers.edu](mailto:longmei.shu@rutgers.edu)): Evolutionary game theory; mathematical biology; isospectral transformations of multidimensional systems and networks
- » Dr. Gabor Toth ([gtoth@camden.rutgers.edu](mailto:gtoth@camden.rutgers.edu)): Differential geometry and convex geometry

[math.camden.rutgers.edu](https://math.camden.rutgers.edu)



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