Ranked as one of the top 100 universities in the nation and in the top 40 national public universities by *U.S. News & World Report*, Stony Brook is repeatedly recognized for its engagement in cutting-edge research and novel approaches to inquiry and understanding. We have been one of only 94 institutions in the country to be designated a “Very High Research University” by the Carnegie Foundation. Our faculty have been responsible for more than 2,100 inventions and more than 600 patents. With more than 70 academic departments, Stony Brook has been ranked among the top 40 institutions funded by the National Science Foundation, and our expenditures on organized research have exceeded $160 million. With graduate program offerings in nearly 50 fields, The Graduate School is here and ready to provide you with the environment and resources you need to excel.

## WHY CHOOSE STONY BROOK?

### Research Excellence
The mathematics and natural science programs at Stony Brook host opportunities for graduate students in areas such as chemical biology, geophysics and geoscience instrumentation, theoretical physics and geometry. Interdisciplinary research programs in quantitative biology, drug discovery and ocean conservation are also available.

### Outstanding Faculty
Stony Brook faculty have been the recipients of numerous international awards and prizes, including four Nobel prizes, seven National Medals of Science, four MacArthur Foundation Prizes, three National Medals of Technology and Innovation, two Fields Medals, and two inductions into the National Inventors Hall of Fame.

### Collaborative Opportunities With World-Renowned Research Centers
Stony Brook is proud to have working partnerships with Brookhaven National Laboratory, as part of our partnership in Brookhaven Science Associates, and Cold Spring Harbor Laboratory. Many of our graduate students work alongside lab investigators on research initiatives, and researchers teach courses at Stony Brook.

### Funding Opportunities
The Graduate School at Stony Brook University offers a variety of highly competitive funding opportunities for doctoral study, such as teaching and research assistantships, Graduate Council fellowships, the Dr. W. Burghardt Turner Fellowship and GEM Fellowship, as well as tuition scholarships. Enrolled students also can compete for a variety of other fellowships and awards.

### Professional Development and Growth
The Graduate School works at the intersection of research and educational advancement to support the success of our scholars and promote diversity and inclusion in graduate education. The Graduate School’s Graduate and Postdoctoral Professional Development and External Fellowships staff, as well as its Center for Inclusive Education, offers a multitude of support programs and development opportunities to assist graduate students in achieving their academic and professional goals.
WHERE CAN OUR GRADUATE PROGRAMS TAKE YOU?

KESTREL PEREZ graduated in 2011 with her PhD in marine and atmospheric sciences. Under the advisement of Professor Stephan Munch, Kestrel’s dissertation examined the evolution of size in fish and evaluated the strength of natural selection and the presence of prolonged trade-offs from an early period of fast growth to better understand the evolution of size. She joined the School of Marine and Atmospheric Sciences in 2005 as a scholar in the Alliance for Graduate Education and the Professoriate, and is a recipient of the Dr. W. Burghardt Turner Fellowship. Upon completing her PhD, Kestrel went on to a post-doctoral position at the University of Texas at Austin in the Department of Marine Sciences.

Kestrel is an assistant professor of biology at St. Joseph’s College in Brooklyn, N.Y., where she is teaching courses in marine biology and evolution and ecology, and mentoring undergrad researchers. Her research centers on marine biology. Specifically, she focuses on fish and invertebrate evolutionary ecology, the study of life history traits and maternal investments, and how variation in these areas influences larval fitness and recruitment.

DEGREE PROGRAMS

Applied Mathematics and Statistics, MS, PhD
Chemistry, MS, PhD
Geosciences, MS, PhD
Geospatial Science, graduate certificate
Marine and Atmospheric Sciences, MA, MS, PhD
Mathematics, MA, PhD
Physics, MA, MS, PhD

INSTITUTES AND CENTERS

The Center for Mesoscale Transport Properties (m2m) in Stony Brook’s Center for Excellence in Advanced Energy conducts basic science research to advance and enable the deliberate design of materials and components to achieve higher-performing, longer life and safer energy storage systems, including batteries.

The C.N. Yang Institute for Theoretical Physics engages in research of fundamental interest. Quantum-field theories supply the language for our description of matter on the smallest scales. Supersymmetric field theories and supergravity and string theories are being studied and developed, with attention to both their mathematical structure and physical consequences.

The Center for Frontiers in Nuclear Science studies nuclei and strong interactions at energies where the density of virtual quarks and gluons becomes very large, thereby testing the foundations of relativistic quantum mechanics and our understanding of the standard model.

The Louis and Beatrice Laufer Center for Physical and Quantitative Biology is a hub for research, advancing biology and medicine through discoveries in physics, mathematics and computational science. Researchers come from the areas of chemistry, physics, applied mathematics and statistics, computer science and microbiology.

For more information about our programs, please visit www.grad.stonybrook.edu

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