

EDUCATION **GROWTH** IN 2017



Scripps Oceanography remains a world-class institution thanks to the instruction and mentorship provided by its stellar faculty. Scripps welcomed four new faculty this year, including several with joint appointments in other UC San Diego departments, bridging Scripps science with humanities, health sciences, engineering, and more.

NEW MAJOR OFFERED TO UNDERGRADUATES

This year, Scripps Oceanography began offering an undergraduate degree in oceanic and atmospheric sciences, the fourth undergraduate degree administered through Scripps. Students pursuing a bachelor's degree in the new major will develop

an understanding of the fundamental physics and chemistry governing the ocean and atmosphere.

The major is distinctive because of its breadth and the ways it gives undergraduate students unprecedented access to resources at Scripps.

"With the launch of this major, Scripps hopes to forge a new path for undergraduate oceanographic education," said oceanographer Daniel Rudnick, one of the professors who led the effort to implement the new major.

In total, Scripps serves more than 4,000 undergraduates in 74 courses taught across UC San Diego.

EDUCATION

Education offerings at Scripps Oceanography continued to expand throughout the 2016-17 academic year to meet the needs of a growing student population. Scripps students, whether enrolled in a doctoral, master's, or undergraduate program, are among the best and brightest and represent the future of earth, ocean, and atmospheric science.



SCRIPPS STUDENT RECEIVES SWITZER ENVIRONMENTAL FELLOWSHIP

Scripps Oceanography PhD student Natalya Gallo was selected as a 2017 recipient of the Switzer Environmental Fellowship, a program of the Robert and Patricia Switzer Foundation providing support to emerging leaders committed to solving real-world environmental problems.

Gallo's research focuses on how climate change impacts marine communities, and particularly climate-driven oxygen decline in the ocean. She has participated in four international climate negotiation conferences held by the United Nations, as well as the Ocean Conference and World Oceans Day.

"The fellowship provides financial support to allow me to continue my scientific and policy outreach efforts on ocean and climate change issues, and provides critical leadership training," said Gallo.



SCRIPPS STUDENT RECOGNIZED FOR INNOVATIVE RESEARCH ON WHALE BEHAVIOR

Eric Keen, a recent graduate student at Scripps Oceanography, was selected as the 22nd recipient of the Edward A. Frieman Prize for Excellence in Graduate Student Research. The Frieman Prize is awarded annually to a Scripps graduate student who has excelled in his or her research field, as measured by a recent publication.

Keen's winning study examined how mobile predators such as orca whales, the largest group of baleen whales, deal with mobile prey in a marine ecosystem. Keen and a small team of researchers conducted visual and acoustic transect surveys and behavioral observations of fin and humpback whales in the northern fjords of British Columbia during the summers of 2014 and 2015.



To execute the research on a limited budget, Keen purchased a small sailing vessel, *R/V Bangarang*, and selected the three-person research crew from among his network of friends and scientists. He also coordinated with the Gitga'at First Nation, one of the 14 tribes of the Tsimshian Nation in British Columbia, which helped facilitate the research.