

2010 Summer Student Fellow
Research Projects

Isabella B. Arzeno, Stanford University

“Analysis of a 1999 Eulerian time series from the Georges Banks GLOBEC project”

Advisor: Kenneth H. Brink, Physical Oceanography

Spencer B. Backus, Franklin W. Olin College of Engineering

“Flip wing turbine”

Advisor: Richard Camilli, Applied Ocean Physics & Engineering

Angela K. Boysen, Stanford University

“A preliminary analysis of water column samples from the Deepwater Horizon oil spill”

Advisor: Elizabeth B. Kujawinski, Marine Chemistry & Geochemistry

Camrin D. Braun, The College of Idaho

“Identification and movement of whale sharks (*Rhincodon typus*) in the Red Sea”

Advisor: Simon R. Thorrold, Biology

Michele E. Dufault, Yale University

“Measuring vertical velocity in the water column using autonomous underwater vehicles”

Advisor: David M. Fratantoni, Physical Oceanography

Jonathan R. Fincke, University of New Hampshire

“Calibration of the WHOI Broad Band Acoustic System for the characterization of scattering from microstructure generated by interfacing water masses”

Advisor: Andone C. Lavery, Applied Ocean Physics & Engineering

Alexis D. Fischer, Wellesley College

“Physiological and transcriptional response of *Nematostella vectensis* to environmental contaminant exposures”

Advisor: Ann M. Tarrant, Biology

Rachel C. Harbeitner, Eckerd College

“Altered responsiveness to oxidative stress in killifish from a Superfund site”

Advisor: Mark E. Hahn, Biology

Katherine R. Heal, The Colorado College

“Concentration of dissolved organic phosphorus (DOP) in seawater using Mg(II)-Mn(III) layered double hydroxide”

Advisor: Daniel J. Repeta, Marine Chemistry & Geochemistry

Victoria R. Hore, Oxford University, UK

“Nonlinearity in the oceanic internal wavefield”

Advisor: Kurt L. Polzin, Physical Oceanography

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Jacob S. Izraelevitz, Franklin W. Olin College of Engineering
“Optimal trajectory generation for draped AUV gravity surveys”
Advisor: James C. Kinsey, Applied Ocean Physics & Engineering

Kyle M. List, Clarkson University
“Swash run-up observations and model comparison using terrestrial LIDAR”
Advisor: Britt Raubenheimer, Applied Ocean Physics & Engineering

Sarah A. Makenbach, University of Manitoba, Canada
“The effect of elevated carbon dioxide levels on benthic foraminiferal survival”
Advisor: Joan M. Bernhard, Geology & Geophysics

Cherie R. Meyer, Columbia University
“Studying shoreline dynamics of the U. S. Atlantic coast using directional wave data”
Advisor: Andrew D. Ashton, Geology & Geophysics

Emily A. Moberg, Massachusetts Institute of Technology
“Phytoplankton carbon to chlorophyll variation off the New England shelf”
Advisor: Heidi M. Sosik, Biology

Sujata A. Murty, Oberlin College
“A high-resolution calibration of Sr/Ca to SST from a coral in the Red Sea”
Advisor: Konrad A. Hughen, Marine Chemistry & Geochemistry

Diana Ponce- Morado, University of California, San Diego
“Studying the search patterns of a sperm whale from an acoustic recording tag”
Advisor: Peter L. Tyack, Biology

Eric A. Rozell, Rensselaer Polytechnic Institute
“A framework for integrating oceanographic data repositories”
Advisors: Andrew Maffei, Ruth Curry and Stace E. Beaulieu
Computer Information Services, Physical Oceanography and Biology

Alejandra Sanchez, Universidad Autónoma de Baja California
“Observations of inner shelf convergence processes”
Advisor: John C. Warner, U. S. Geological Survey

Sara C. Sanchez, University of Arizona
“A Brazilian response to Northern Hemispheric cooling”
Advisor: William B. Curry and Delia W. Oppo, Geology & Geophysics

Analissa F. Sarno, California State University, San Marcos
“Cellular responses to phosphorus deficiency in the brown tide-forming alga,
Aureococcus anophagefferens”
Advisor: Sonya T. Dyhrman, Biology

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Elizabeth C. Sibert, University of California, San Diego
“A new species of vesicomid clam (*Bivalvia: Vesicomidae*) at the Chile Margin as considered by the mitochondrial COI gene”
Advisor: Timothy M. Shank, Biology

Laura E. Sofen, Carleton College
“Increased phosphatase activity among *Trichodesmium* epibionts mediated by quorum sensing signaling molecules”
Advisor: Benjamin Van Mooy, Marine Chemistry & Geochemistry

Laurel E. Stephenson Haskins, Reed College
“Sensitivity of ENSO to anthropogenic SST pattern formations”
Advisor: Kristopher B. Karnauskas, Geology & Geophysics

Lillian K. Steponaitis, University of North Carolina, Chapel Hill
“Negotiating ocean space: The siting of offshore renewable energy facilities in Massachusetts and Rhode Island”
Advisors: Porter Hoagland and Hauke Kite-Powell, Marine Policy Center

John M. Swartz, University of Pittsburgh
“Controls on uranium isotope variability within central Chilean river waters”
Advisor: Laura F. Robinson, Marine Chemistry & Geochemistry

Jennifer A. Thomas, Old Dominion University
“Hypoxia in Buzzards Bay: Determining physical processes responsible for the distribution of dissolved oxygen in Buzzards Bay”
Advisor: Neil Ganju, U. S. Geological Survey

Julie van der Hoop, Dalhousie University
“Estimating swimming paths of tagged baleen whales using an acoustic tracking system”
Advisor: Mark F. Baumgartner, Biology

Anna E. Wargula, Grove City College
“Oyster larvae behavioral response to turbulence”
Advisors: Karl R. Helfrich and Lauren S. Mullineaux, Physical Oceanography

Eleina M. Zaitsev, Columbia University
“Investigating the role of nitric oxide and oxidative stress in *Symbiodinium spp.* heat sensitivity”
Sponsor: Matthew D. Johnson, Biology