

2012 Summer Student Fellow
Research Projects

Jennifer J. Batryn, California Polytechnic State University

Self noise testing and passive acoustic sensor integration on a RENUS-100 AUV

Advisor: Michael Purcell, AOPE

Abhimanyu Belani, MIT

Towards coordinated surface and subsea autonomous survey

Advisor: Michael Jakuba, AOPE

Stephan A. Bitterwolf, University of the Virgin Islands

Abundance and vertical distribution of Squalus acanthias at Stellwagon Bank: Daily and interannual patterns from 2008 – 2012

Advisor: Jesus Pineda, BIO

Isaiah W. Bolden, Bowdoin College

Variability in nutrient concentrations of Waquoit Bay: A 12-year time series analysis

Advisor: Matthew Charette, MC&G

Elizabeth Q. Brannon, Coastal Carolina University

Investigating time variations in DOC concentrations for salt marsh carbon budgets: Testing continuous CDOM measurements as a proxy for DOC

Advisor: Kevin Kroeger, USGS

Billionrosannae C. Chhouk, San Diego State University

The Imaging Flow-Cytobot and the Environmental Sample Processor: New advances in remote sensing that will shape our understanding of harmful algal blooms

Advisor: Donald Anderson, BIO

Eve R. Eisemann, Temple University

Holocene sea-level change in southern New England and its influence on the barrier dynamics of Martha's Vineyard

Advisor: Jeff Donnelly, G&G

Angelica R. Gilroy, University of California San Diego

An estimated eddy heat flux near Pine Island Glacier, Antarctica

Advisor: Kurt Polzin, PO

Arielle A. Gomes-Williams, Smith College

The export of particles in low-productivity waters

Advisor: Ken Buesseler, MC&G

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Camil Hamel, University of Sherbrooke

Hydrographic observations beneath land-fast ice offshore of Barrow, Alaska

Advisor: Albert Plueddemann, PO

Grant Jiang, University of Maryland

Biogeochemical variation along the West Antarctic Peninsula through time and space

Advisor: Scott Doney, MC&G

Christopher S. Kelly, Lafayette College

Climate controls on western tropical Pacific coral growth: Implications for coral reef management and conservation

Advisor: Anne Cohen, G&G

Paul E. Lerner, University of California Berkeley

Mysteries under the ice: Bio-optical measurements in the central Arctic

Advisor: Samuel Laney, BIO

Nicole R. Marshall, Dalhousie University

Analysis of ocean responses to storms off of Fire Island, New York, USA

Advisor: John Warner, USGS

Julia G. Mason, Harvard University

Integrated aquaculture as water quality management: Toward a decision-making model for Waquoit Bay, MA

Advisor: Hauke Kite-Powell, MPC

Kimberley K. Mayfield, University of Hawaii at Manoa

The chemical profiling of four Rhode Island rivers

Advisor: Bernhard Peucker-Ehrenbrink, MC&G

Brenna J. McGann, Grove City College

Weakly-inertial particle motions in turbulence

Advisor: Karl Helfrich, PO

Catherine D. Phillips-Smith, University of Toronto

Submesoscale variability of Moderate Resolution Imaging Spectroradiometer (MODIS) ocean color: Regional and temporal patterns of Hawaii and the surrounding area

Advisor: David Glover, MC&G

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Barbara M. Ramon, California State University Dominguez Hills

The impact of ocean acidification on larval surf clams and the mitigating effects of nutrition

Advisor: Daniel McCorkle, G&G

Xiaoyuan (Charlene) Ren, Vassar College

Tracer stirring in the ocean: Characterizing small-scale ocean current movements through tracer dispersion

Advisor: Jim Ledwell, AOPE

Mallory C. Ringham, Syracuse University

An autonomous sampler for multi-time scale river chemistry observations

Advisor: John 'Chip' Breier, AOPE

Yolimar Rivera-Vázquez, University of Puerto Rico at Humacao

Physiology of Synechococcus spp. isolated from Martha's Vineyard Coastal Observatory

Advisor: Heidi Sosik, BIO

Danielle P. Santiago Ramos, Amherst College

Sulfur isotopic variations during subduction of hydrated lithosphere: The Erro-Tobbio case

Advisor: Nobumichi Shimizu, G&G

Amy M. Streets, University of Maryland, College Park

Can copepods choose their bacteria? Interactions between copepods and bacteria

Advisor: Ann Tarrant, BIO

Matthew A. Takata, Northwestern College

Interesting findings concerning the Pregnane Xenobiotic Receptor in zebrafish

Advisor: John Stegeman, BIO

Tara M. Thean, Princeton University

Signature whistle models in free-ranging bottlenose dolphins, Tursiops truncatus

Advisor: Laela Sayigh, BIO

Samantha E. Tufano, The Pennsylvania State University

Passive acoustic whale localization in Cape Cod Bay in the spring of 2011

Advisor: Dr. James Lynch, AOPE

Sebastian M. Vivancos, Columbia University

Influence of the AMOC on tropical hydrology during the deglaciation: Insight from the Demerara Rise

Advisor: Delia Oppo, G&G

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Megan K. Ware, Boston University

Modeling the economics of beach nourishment decisions in response to coastal erosion

Advisor: Porter Hoagland, MPC

Joseph B. Wenig, University of Victoria

Exploring the interaction between the Filchner-Ronne ice shelf and large scale circulation

Advisor: Geoffrey 'Jake' Gebbie, PO

Samantha J. Whitmore, Harvard University

Poleward shift of the Southern Hemisphere Westerlies during the satellite era (1988 - 2011)

Advisor: Lisan Yu, PO

Qingjun (Judy) Yang, Zhejiang University

Experimental evaluation of a model based nonlinear observer for underwater vehicle navigation

Advisor: James Kinsey, AOPE