

**WHOI 2015 Summer Student Fellows  
Research Projects**

**Lloyd Anderson**, Bowdoin College

*Alkalinity export from salt marshes: evaluating the contribution of non-carbonate species to coastal buffering capacity*

Advisor: Meagan Gonnessa, USGS, and Aleck Wang, MC&G

**Mariene Basiga**, San Jose State University

*Porous Flow and Focused Flow Experiments using Chloride Schist and Peridotite: An Experimental Analysis of Mélange Diapirs*

Advisor: Veronique Le Roux, G&G

**Benjamin Beaumont**, North Carolina State University

*Acoustic Quantification of Methane Bubble Rise Speeds*

Advisor: Andone Lavery, AOP&E

**Alicia Camacho**, Valparaiso University

*North Atlantic Oscillation, Jet and Blocking in CESM1 Large Ensemble Simulations*

Advisors: Young-Oh Kwon and Hyodae Seo, PO

**Margaret Capocci**, University of Scranton

*Biogeochemical Responses to Restoration of Tidal Connectivity in Cape Cod Marshes*

Advisor: Amanda Spivak, MC&G

**Miranda Cashman**, University of Massachusetts Amherst

*Bahamian Storm Sediment: Analyzing Hurricane Deposits in Marine Blue Holes of South Andros, Bahamas*

Advisor: Jeffrey Donnelly, G&G

**Amanda Chan**, Swarthmore College

*Examining the circadian physiology behind chaperone cycling in *Nematostella vectensis**

Advisor: Ann Tarrant, BIO

**Laura Crews**, Stanford University

*Nearshore Antarctic Phytoplankton Bloom Phenology*

Advisor: Scott Doney, MC&G

**Daniel Diaz-Etchevehere**, University of Rochester

*The Impact of Fe(II) on NO<sub>2</sub><sup>-</sup> and N<sub>2</sub>O Isotopic Composition During Denitrification by Natural Sediments*

Advisor: Scott Wankel, MC&G

**Ann Dunham**, Dartmouth College

*Habitat Damage and Marine Reserves in a Stage-Structured Bioeconomic Model*

Advisor: Michael Neubert, BIO

**Hazel Fargher**, Worcester Polytechnic Institute

*Sea Surface Temperature Records Using Sr/Ca Ratios in a *Siderastrea siderea* Coral from Southern Cuba*

Advisor: Konrad Huguen, MC&G

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**David Fertitta**, Louisiana State University

*Drifter-based Predictions of the Spread of Surface Contamination Using Iterative Statistics: A Local Example with Global Applications*

Advisor: Alison Macdonald and Irina Rypina, PO

**Jerry Fontus**, Georgia Institute of Technology

*The Design and Testing of a Thermal Regulator for an AUV Gravimeter*

Advisor: James Kinsey, AOP&E

**Chloe Fross**, Georgetown University

*A Partial Ecosystem Services Evaluation of the Boston Harbor: The Value of Cleanup*

Advisor: Hauke Kite-Powell, MPC

**Aditya Gupta**, VIT University, Chennai

*Design and Development of a Pixhawk based Robotic Vehicle for the Surf Zone and Morphological Image Processing of Sea Ice Imagery*

Advisors: Hanumant Singh and Peter Traykovski, AOP&E

**Sara Hamilton**, Bowdoin College

*Spatial and Temporal Variation in the Diets of Northwest Atlantic Forage Fish*

Advisor: Joel Llopiz, BIO

**Dana Johnson**, Northwestern University

*Exploring the potential for mineral-based protection of organic carbon in deep-sea sediments*

Advisor: Colleen Hansel, MC&G

**Siraput Jongaramrungruang**, University of Cambridge

*Intraseasonal SST-precipitation coupling during the Indian Summer Monsoon and its modulation by the Indian Ocean Dipole*

Advisors: Hyodae Seo and Caroline Ummenhofer, PO

**Sasha Kramer**, Bowdoin College

*A method for determining phytoplankton community structure from ocean color at the Martha's Vineyard Coastal Observatory*

Advisor: Heidi Sosik, BIO

**Julia Lanoue**, Brown University

*Modeling Oyster (*Crassostrea virginica*) Productivity in Response to Channel Deepening in the Hudson River Estuary*

Advisor: Porter Hoagland, MPC

**Ratnaksha Lele**, VIT University

*An Investigation into Arctic Sea-Ice Dynamics and Energetics*

Advisor: John Toole, PO

**Claudia Mazur**, Mount Holyoke College

*An analysis of denitrification and annamox processes in sediments underneath oysters*

Advisor: Virginia Edgcomb, G&G

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**Craig McLean**, University of Arkansas

*Isolation and Characterization of Iron Binding Ligands from Marine Bacteria*

Advisor: Daniel Repeta, MC&G

**Leah Middleton**, Mount Holyoke College

*Measuring the sensitivities of the Fundulus heteroclitus aryl hydrocarbon receptor variants to transactivation by dioxins*

Advisor: Mark Hahn, BIO

**Samuel Nadell**, Cornell University

*Age Tracers and Residence Time in the Hudson River Estuary*

Advisor: Rockwell Geyer, AOP&E

**Chadlin Ostrander**, Arizona State University

*Thallium isotopes tracking Mn-oxide burial: A proxy for deoxygenation during Oceanic Anoxic Event 2*

Advisor: Sune Nielsen, G&G

**Astrid Pacini**, Yale University

*Structure and Circulation of Pacific Winter Water on the Chukchi Sea Shelf in Late Spring*

Advisor: Robert Pickart, PO

**Zoraida Perez-Delgado**, Universidad Metropolitana

*Satellite and Model Analysis of Coral Reefs in the Western Indian Ocean: 2001 to 2007*

Advisor: Caroline Ummenhofer, PO

**Gilles Seropian**, McGill University

*Viscoelastic relaxation of the Greenland ice sheet*

Jeffrey McGuire, G&G

**Katherine Siegel**, Georgia Institute of Technology

*Physical Forcing on Hypoxic Water in Chesapeake Bay*

Advisor: Malcolm Scully, AOP&E

**Vishwajit Singh**, Indian Institute of Technology Kharagpur

*Automated Interval Velocity Picking for Atlantic Multi-Channel Seismic Data*

Advisors: Nathan Miller and Deborah Hutchinson, USGS

**Yuxin Zhou**, University of Southern California

*Magnitude of the Suess Effect in the North Atlantic - a Study of Foraminifera and Transient Tracer Simulations*

Advisors: Delia Oppo, G&G, and Geoffrey Gebbie, PO