

**WHOI 2016 Summer Student Fellows
Research Projects**

Cynthia Becker, Ithaca College

Effect of PCB153 on Genes Involved in Glucose Metabolism and Homeostasis in Fundulus heteroclitis (Atlantic killifish)

Advisors: Mark Hahn and John Stegeman, BIO

Rebecka Bence, Washington State University

Oysters as a Sustainable Solution: Geochemistry and microbial community analysis at aquaculture sites in Little Pond, MA

Advisor: Ginny Edgcomb, G&G

Julia Chavarry, Johns Hopkins University

Modeling Commercial Fisheries with Different Diseases

Advisor: Michael Neubert, BIO

Arina Favilla, University of Miami

Differences in Diverse Coral and Habitat Assemblages among Northeast Deep-Sea Canyons

Advisor: Tim Shank, BIO

Stacey Felgate, Scottish Association of Marine Science, University of the Highlands and Islands

Assessing the Resilience of a Blue Carbon Store: Characterizing the Lateral Flux of DIC from an East Coast U.S. Saltmarsh using $\Delta^{14}C$ and $\delta^{13}C$

Advisors: Meagan Gonneea, USGS and Aleck Wang, MC&G

Calvin Fok, Humboldt State University

Salt Marsh Restoration: Changes in Plant Biomass and Gas Flux

Advisor: Jim Tang, MBL

Victoria Garefino, University of South Carolina

Effect of Hypoxia on DNA Methylation during Embryonic Development in Fish Embryos

Advisor: Neel Aluru, BIO

Benjamin Geyman, Bowdoin College

Isotopic distribution of barium in the North Pacific: Modern profile and prospects for Ba-based paleoceanographic studies

Advisor: Tristan Horner, MC&G

Kimberly Gottschalk, Portland State University

Investigating the Sources of Decadal-Scale Property Changes in Antarctic Bottom Water in the Southeast Indian Ocean (80-90°E)

Advisor: Alison Macdonald, PO

Lily Hahn, Yale University

Increasing Greenland Melt and Blocking in Recent Decades Modulated by Large-Scale and Regional Circulation Changes

Advisors: Fiamma Straneo and Caroline Ummenhofer, PO

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Erin Houlihan, Bowdoin College

The Effects of Ocean Acidification on Larval Oyster Swimming Responses to a Settlement Cue

Advisor: Lauren Mullineaux, BIO

Walter Hutcheson, New York University

Estimating the Economic Value of Environmental Education in the Hudson River Estuary

Advisor: Porter Hoagland, MPC

Stefani Johnson, St. John's University

Assessing the Annual Biogeochemical Dynamics of the Lower Mississippi River and its Tributaries

Advisor: Bernhard Peucker-Ehrenbrink, MC&G

Ulrich Kakou, University of Massachusetts, Amherst

Are Saltmarshes Susceptible to Carbon Loss following N Loading?

Advisor: Jonathan Sanderman, Woods Hole Research Center

Colette Kelly, Barnard College

Drivers of Seasonal and Interannual Variations in Waquoit Bay Carbonate Chemistry

Advisor: Dan McCorkle, G&G and Scott Doney, MC&G

Miranda Kotidis, Massachusetts Institute of Technology

Rechargeable battery packs for a Slocum Glider

Advisor: Rich Camilli, AOPE

Nicolas Lavoie, North Carolina State University

Western tropical Atlantic hydrology during Marine Isotope Stage 5

Advisor: Delia Oppo, G&G

Tianjia Liu, Columbia University

Global salinity predictors of western United States rainfall

Advisor: Ray Schmitt, PO

Kendra Lynn, Portland State University

Drivers of Submesoscale Dynamics in the Coastal Ocean: A Study Using High-Frequency Radar Observations

Advisors: Amala Mahadevan and Anthony Kirincich, PO

Lisa MacKenzie, Bowdoin College

Feasibility of a Prototype Portable Hatchery

Advisor: Hauke Kite-Powell, MPC

Stephen Maldonado, Ohio State University

Dynamics of the Tokar Gap Jet

Advisor: Larry Pratt, PO

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Sarah McGrath, College of Wooster

Western Tropical Atlantic hydrology changes during abrupt climate events in the last glacial interval

Advisor: Delia Oppo, G&G

Gabriela Negrete, University of Wisconsin-Madison

Impacts of Water Quality and Ocean Acidification along Buzzards Bay

Advisors: Scott Doney and David Glover, MC&G

Julia Paine, University of Miami

Sediment Sources and Transport in the Fraser River, BC

Advisor: Bernhard Peucker-Ehrenbrink, MC&G

Jacob Partida, Humboldt State University

Subsurface Exchange of Water Masses at the Mid-Atlantic Bight Shelf Break

Advisor: Gordon Zhang, AOPE

Channing Prend, Columbia University

Impact of freshwater plumes on intraseasonal upper ocean variability from moored observations in the Bay of Bengal

Advisor: Hyodae Seo, PO

Ellin Rittler, University of San Francisco

Investigating the Potential of Macroalgae to Remediate the Effects of Ocean Acidification on New England Oyster Farms

Advisor: Hauke Kite-Powell, MPC

Mark Saddler, University of Chicago

*Characterizing Chilean blue whale (*Balaenoptera musculus*) acoustic behavior using DTAGs: a test of using tag accelerometers to identify calls from the tagged whale*

Advisor: Laela Sayigh, BIO

Justin Snook, Bridgewater State University

The Kinetics of NO₃- Reduction by Aqueous H₂S During Subsurface Mixing in Submarine Hydrothermal Systems

Advisor: Jeffrey Seewald, MC&G

Alyssa Soucy, University of Massachusetts Lowell

Reconstructing Tropical Atlantic SSTs during the Last Interglacial

Advisor: Anne Cohen, G&G

Rebecca Sugrue, Massachusetts Institute of Technology

Autonomous Greenhouse Gas Analyzing with a Jetyak

Advisors: Anna Michel, AOPE and David Nicholson, MC&G

**WHOI 2016 Summer Student Fellows
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Chloe Wang, Haverford College

Microbial Colonization of Metal Sulfides at a Hydrothermal Vent

Advisors: Colleen Hansel, MC&G and Stefan Sievert, BIO