

**WHOI 2017 Summer Student Fellows
Research Projects**

Shavonna Bent, Johnson State College

*Reactive Oxygen Species production in the holobiont of the Northern Star Coral (*Astrangia poculata*)*

Advisors: Amy Apprill and Colleen Hansel, Marine Chemistry & Geochemistry

Luka Catipovic, University of Massachusetts, Amherst

Advancing Marine Chemical Sensing Technology for Deep Sea and Shallow Estuary Applications

Advisor: Anna Michel, Applied Ocean Physics & Engineering

Abigayle Clabaugh, University of Colorado, Boulder

Departures in the Surface Meteorology and Air-Sea Fluxes at the WHOTS

Advisor: Robert Weller, Physical Oceanography

Samuel Coakley, Rutgers University

Southeast Asian monsoon variability in the CESM-Last Millennium Ensemble

Advisors: Caroline Ummenhofer and Hyodae Seo, Physical Oceanography

Jason Dinh, Duke University

Listen up! Harnessing passive acoustic recorders to monitor boat activity trends in U.S. Virgin Island coral reefs

Advisor: Aran Mooney, Biology

Zachary Duguid, Massachusetts Institute of Technology

Intelligent Endurance for AUV Gliders

Advisor: Richard Camilli, Applied Ocean Physics and Engineering

Noah Gluschankoff, University of California, Santa Barbara

Investigating reaction kinetics, products and isotope signatures during abiotic reduction of nitrate and nitrite by amorphous iron sulfide

Advisor: Scott Wankel, Marine Chemistry & Geochemistry

Jeanette Gray, Unity College

Two invasive invertebrates: understanding their range limits in Northeast North America with relative thermal tolerance

Advisor: Carolyn Tepolt, Biology

James Hawsey, College of Charleston

Navigational Adjustment to Optimize Multibeam Bathymetry of the Mid-Atlantic Ridge "Popping Rocks Site"

Advisor: Adam Soule, Geology & Geophysics

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Taylor Hough, Brown University

Timing of melt percolation and pyroxenite formation in a supra-subduction zone: Constraints from the Josephine Ophiolite, Oregon USA

Advisor: Veronique Le Roux, Geology & Geophysics

Mia Infante, University of Texas, Rio Grande Valley

Variability and Trends of the Southern New England Shelfbreak

Advisor: Benjamin Harden and Glen Gawarkiewicz, Physical Oceanography

Stephanie Lim, Scripps College

Assessing loss rates of a developing red tide at a population level

Advisor: Don Anderson & Michael Brosnahan, Biology

Meghan Maciejewski, Stonehill College

*Swimming behavior of *Crassostrea virginica* larvae in response to waterborne settlement cue and food availability*

Advisor: Lauren Mullineaux, Biology

Kanieka Neal, University of Maryland, Eastern Shore

Biophysical and Thermal Influences on Surface pCO₂ in the North Atlantic from 2014-2016

Advisor: David Nicholson and Hilary Palevsky, Marine Chemistry and Geochemistry

Lan Nguyen, Hollins University

Ecological and Economic Trade-offs of Allocating Coastal Space to Shellfish Aquaculture

Advisor: Hauke Kite-Powell, Marine Policy Center

Jacob Partida, Humboldt State University

Subsurface transport of shelf water at the Mid-Atlantic Bight shelf-break

Advisor: Gordon Zhang, Applied Ocean Physics and Engineering

Brooke Rasina, University of California, San Diego

Nitrogen Concentration and Isotopic Changes over the Past 250 Years in a Red Sea Coral

Advisors: Konrad Huguen and Scott Wankel, Marine Chemistry and Geochemistry

Kathryn Rawson, Mount Holyoke College

Sea Cucumbers in a Pickle: The Economic Geography of the Serial Exploitation of Sea Cucumbers

Advisor: Porter Hoagland, Marine Policy Center

Julianna Renzi, University of Arizona

Are all algae created equal? Determining the Ability of Compound-Specific Stable Isotope Analysis to Identify Different Phyla of Macroalgae for Use in Trophic Ecology

Advisor: Simon Thorrold, Biology

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Sophie Ruehr, Yale University

Newfound Aspects of Ancient Hurricanes: Reconstructing storm intensity and sediment deposition dynamics in northeastern coastal ponds

Advisor: Jeff Donnelly, Geology and Geophysics

Cara Scalpone, Pitzer College

Modeling Seagrass Habitat Vulnerability to Climate Change

Advisor: Neil Ganju, USGS – Woods Hole Coastal and Marine Science Center

Rowena Schenck, Amherst College

Sediment respiration and sulfur cycling in salt marsh ponds

Advisor: Amanda Spivak, Marine Chemistry & Geochemistry

Celina Scott-Buechler, Cornell University

The role of anthropogenic warming in the decline of Caribbean reefs

Advisor: Anne Cohen, Geology and Geophysics

Madison Shankle, Yale University

The Influence of Ocean Warming on Extreme Precipitation Events around the Indian Ocean in 2010/11

Advisor: Caroline Ummenhofer, Physical Oceanography

James Stadler, Haverford College

Submesoscale Restratification of the Arctic Mixed Layer

Advisor: Sylvia Cole, Physical Oceanography

Logan Tegler, Arizona State University

Osmium- and Iron- isotope chronostratigraphy of deep sea pelagic clays

Advisor: Tristan Horner, Marine Chemistry & Geochemistry

Rosa Vargas-Martes, University of Puerto Rico-Mayaguez

The Role of Ocean and Atmosphere Heat Transport in the Arctic Amplification

Advisor: Young-Oh Kwon, Physical Oceanography

Ciara Willis, Dalhousie University

Tuna in the Phoenix Islands Protected Area: Identification of probable spawning sites using larval movement

Advisor: Joel Llopiz, Biology

Samuel Walkes, Bowdoin College

*Signature whistles as indicators of mass stranding events in common dolphins (*Delphinus delphis*) and Atlantic white sided dolphins (*Lagenorhynchus acutus*)*

Advisor: Laela Sayigh, Biology