

FELLOWSHIPS



2020-2022 Margaret A. Davidson Fellows

NOAA Office for Coastal Management
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Name	Reserve	University	Degree	Project Title
Tyler Cribbs	Ace Basin	Clemson University	Ph.D.	Understanding Visitor Use And Its Impacts on Key Resources at the Ace Basin National Estuarine Research Reserve
Kira Allen	Apalachicola	University of Central Florida	M.S.	Effects of Changing Salinity Regimes on the Apalachicola Bay Food Web
Daniella Hanacek	Chesapeake Bay Maryland	University of Maryland	M.S.	Evaluating Carbon Sequestration Potential of Natural and Restored Tidal Marshes in the Chesapeake Bay through Quantification of Methane Fluxes and Identification of Drivers
Derek Detweiler	Chesapeake Bay Virginia	Virginia Institute of Marine Science	Ph.D.	Composition and Short-Term Fate of Dissolved Organic Carbon in Tidal Marsh Soils
Elisabeth "Lizzy" Powell	Delaware	University of Maryland	Ph.D.	Tracking Marsh Migration and Subsequent Upland Forest Retreat from Sea Level Rise Using Remote Sensing
Emilio Grande	Elkhorn Slough	University of California, Santa Cruz	Ph.D.	Quantification of Nutrient Fate and Transport in Salt Marsh Pore Water through the Use of a High Frequency Sensor Network and Environmental Tracers
Matthew Virden	Grand Bay	Mississippi State University	M.S.	Evaluating the Effectiveness of Restoration Approaches for Nearshore Habitat
Anna Lowien	Great Bay	University of New Hampshire	M.S.	Stressors and Ecological Responses in Great Bay Estuary

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Ashley Reaume	Guana Tolomato Matanzas	University of Central Florida Board of Trustees	M.S.	Monitoring Shifts in Planktonic Communities in Response to Changes in Water Quality Using Metabarcoding Approaches
Sarah Tucker	He'eia	University of Hawaii at Manoa	Ph.D.	Evaluating Natural and Human-Derived Dynamics in Phytoplankton Communities along the He'eia Estuary-Ocean continuum
Clara Chang	Hudson River	Columbia University	Ph.D.	Developing Novel Methods to Measure Historic Wetland Accretion
Taylor Armstrong	Jacques Cousteau	University of Maryland	Ph.D.	Impact of pH and Dissolved Organic Carbon on Phytoplankton Community Composition in Two New Jersey Estuaries
Jessica Tipton Black	Jobos Bay	Clemson University	Ph.D.	Developing and Implementing a Biological Condition Gradient for Nearshore Habitats of Puerto Rico
Edgar Guerron	Kachemak Bay	University of South Florida	Ph.D.	Groundwater Vulnerability in Coupled Human-Natural Systems
Molly Wick	Lake Superior	University of Minnesota Duluth	Ph.D.	Ecosystem Condition and Human Well-Being in the St. Louis River Estuary
Philip Souza	Mission-Aransas	The University of Texas at Austin	Ph.D.	Acoustic Assessment of Ecosystem Resilience in Response to Natural and Anthropogenic Stressors in the Mission Aransas Reserve
Nia Bartolucci	Narragansett Bay	Boston University	Ph.D.	The Effects of Thin-Layer Placement of Sediment (TLP) on Carbon and Nitrogen Cycling in New England Salt Marshes
Marae Lindquist	North Carolina	University of North Carolina, Wilmington	Ph.D.	Predicting Marsh Bird Population Response to Sea Level Rise: Providing Information for Management Decisions and a Framework for Other Marsh Species
Johanna L'Heureux	North Inlet-Winyah Bay	Northeastern University	Ph.D.	Using Marsh Organs to Test the Effects of Salt Marsh Elevation and Nutrient Enrichment on <i>S. alterniflora</i> Root Exudate Production and Microbial Community Structure

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Haley Kujawa	Old Woman Creek	Ohio State University	Ph.D.	Building a User-Oriented Management Tool to Assess Hydrology and Water Quality and Facilitate Climate Change Adaptation in Old Woman Creek
Elizabeth Elmstrom	Padilla Bay	University of Washington	Ph.D.	Land-Sea Metabolic Coupling in Temperate Eelgrass Beds: The Role of Watershed Connectivity and Environmental Gradients on Carbon Sequestration of Seagrass Meadows
Kristine Zikmanis	Rookery Bay	Florida International University	Ph.D.	Impacts of Altered Freshwater Flow on Juvenile Bull Sharks in the Ten Thousand Islands
Julie Gonzalez	San Francisco Bay	University of California, Davis	Ph.D.	Determining the Effect of Sea-level Rise and Biological Invasions on Salt Marsh Plant Communities in Central California
Sydney Williams	Sapelo Island	University of Florida	Ph.D.	Quantifying Estuarine Water Quality Change and Its Influence on the Relationship between Ribbed Mussel (<i>Geukensia demissa</i>) Suspension-Feeding Behavior and Phytoplankton Community Structure in Southeastern Atlantic Salt Marshes
Taylor Dodrill	South Slough	Portland State University	Ph.D.	Characterizing Variation in Fatty Acid Content and Toxin Production in Coastal Phytoplankton for Management of Shellfish Resources.
Nancy Torres	Tijuana River	University of San Diego	M.S.	Assessing Ecosystem Health through Status and Trends of Contaminants
Claudia Mazur	Waquoit Bay	Boston University	Ph.D.	Forecasting Rates of Sediment Nutrient and Metal Fluxes under Coastal Acidification for Improved Estuarine Water Quality
Mai Fung	Weeks Bay	University of South Alabama/ Dauphin Island Sea Lab	Ph.D.	Linking Changes in Hydrology, Climate, and Nutrient Loading to Expressions of Eutrophication in Weeks Bay, Alabama
Jessica Brunacini	Wells	Michigan State University	Ph.D.	Broadening Participation to Build Resilience: Exploring the Role and Effect of Public Participation in Decision-Making Around Managed Retreat in Wells, Maine