

## Education

<b>PhD</b> Marine Affairs, University of Rhode Island dissertation: <i>Towards a Comparative Index of Seaport Climate Vulnerability: Developing Indicators from Open-Data</i>	2018
<b>Master of Professional Science</b> <i>Meteorology and Physical Oceanography</i> University of Miami, Rosenstiel School of Marine and Atmospheric Science	2013
<b>BSc Physics, BA German</b> , Vanderbilt University	1999
The Lawrenceville School, <i>High Honors</i>	1995

## Experience

<b>Oceanography Officer</b> , Secretariat of the Pacific Regional Environment Programme (SPREP), Apia, Samoa Responsible for providing advice and support to SPREP and its Members on all issues relating to oceanography, ocean observing, and ocean acidification and climate change impacts on the marine environment, and supporting the regional National Meteorological Services (NMS) in developing oceanography and marine weather service programmes.	2018 - Present
<b>Adjunct Faculty</b> , Department of Marine Affairs, University of Rhode Island Instructor of Graduate-level course, MAF564 Port Planning and Policy	2017 - 2018
<b>PhD Graduate Assistant</b> , University of Rhode Island Developing data-driven methods of assessing the climate vulnerabilities of seaports. Co-wrote and managing a \$280,000 USD grant from the US Army Corps of Engineers to enhance seaport resilience by leveraging open-data. Advisor: Dr. Austin Becker	2014 - 2018
<b>Project Assistant</b> , Pacific Regional Integrated Sciences & Assessments Honolulu, HI. Developed a projected sea level assessment of American Samoa, climate change adaptation for freshwater policy in American Samoa, and drought monitoring tools for stakeholders in the Republic of the Marshall Islands.	2013 - 2014
<b>Graduate Research Assistant</b> , University of Miami, RSMAS Developed GIS methods of sea level rise projections in the <i>Weather, Climate and Society</i> track of the Department of Meteorology and Physical Oceanography, Advisor: Dr. Brian Soden	2012 - 2013
<b>Physics Instructor</b> , Lincoln Park Academy, Fort Pierce, Florida Taught honors Physics at nationally acclaimed academy	2009 - 2012

- Captain, SV Good Karma**, 15,000 nm single-handed, Florida to New Zealand 2006 - 2009  
Accomplished long-held goal of sailing single-handed across the Pacific Ocean aboard the 32' sloop Good Karma. Single-handedly sailed over 15,000 nautical miles from Florida, USA, to New Zealand. Preparations included intensive, self-motivated study of ocean navigation, seamanship, HF radio, oceanography, and meteorology.
- Sailboat Restoration**, Pensacola, Florida 2004 - 2006  
Small business involving purchase, restoration and sale of cruising and racing sailboats. Self-employed repairing damaged sailboats, including fiberglass work, rebuilding diesel engines, rigging and sails, plumbing, and 12V electrical system repairs. This work I undertook as one facet of preparation for a single-handed trans-Pacific navigation.
- NOAA Coral Reef Management Assistantship**, American Samoa 2004  
Awarded fellowship and sent to American Samoa by National Oceanic and Atmospheric Administration to assist the territory's government with management of the United States' most biodiverse coral reef ecosystem. Work included identifying four key threats to the reef and writing Local Action Strategies to address each one.
- Operations Manager**, Salani Surf Resort, Upolu, Samoa 2003  
Responsible for day to day operations of small resort including organizing guest arrivals and departures, organizing food and beverage orders, managing a staff of housekeepers, bartenders, kitchen staff, boatmen (water safety), and managing maintenance of resort vehicles and boats
- US Peace Corps Volunteer**, Samoa 1999 - 2003  
Education Officer for the IUCN Marine Protected Area of Aleipata. Completed marine biodiversity surveys, finalized MPA Management Plan, developed marine science curriculum, taught marine science at Vaisuli Secondary School. Taught Science, English, Geography, at Fagaloa Secondary School.

## Skills & Certifications

**Languages:** Fluent in Samoan | Conversant in German

**Data Science:** R programming proficiency | Data Analysis | Data Visualization

**GIS:** ArcGIS proficiency | Marine Spatial Planning | Spatial Analysis | Geostatistics

University of Florida/IFAS *Master Naturalist* in Coastal Systems

Florida Professional Teaching Certification No. 1125747 | *Physics 6-12* and *Biology 6-12*

US Sailing: Sailing Instructor Level 1

**15,000 nautical miles sailed single-handed**, experienced at all aspects of ocean navigation