

# Amanda Daria Stoltz

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## EDUCATION

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**University of California, Santa Cruz, Ph.D. in Environmental Studies** 2019-August 2024  
Designated Emphasis in Coastal Science and Policy  
Dissertation title: "Building Resilience to Coastal Hazards: An Analysis of Environmental Justice and Decision-making on Changing Coasts"

**University of Miami Rosenstiel School of Marine and Atmospheric Science** 2018  
Master of Science in Marine Ecosystems and Society  
Thesis title: "Determining Resilience in Cedar Key, Fort Myers Beach, and Conch Key: Fishing Industry Views on Sea Level Rise Risk and Adaptation"

**Tulane University, New Orleans, LA** 2014  
Bachelor of Arts in English with a minor in Marine Biology

## RESEARCH EXPERIENCE

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### US Geological Survey GS-0199-11

*Pathways Career Intern* (March 2023-Present/20 hours per week)

- Conducted listening sessions with Indigenous coastal communities in Alaska to support the production of locally customized flood hazard maps and online tools
- Formally engaged with key stakeholder representatives of an ESLR funded project on salt marsh evolution along the South Atlantic Bight

*Social Scientist* (July 2020-March 2023/20 hours per week)

- Designed and facilitated focus groups with key USGS stakeholders across the country for the Water Mission Area and the Coastal and Marine Hazards and Resources Program
- Interviewed USGS employees on the process of developing decision-support tools and conducted user experience (UX) research, including usability interviews
- Analyzed qualitative data in NVivo and MAXQDA to produce two USGS Scientific Investigations Reports

### NOAA Fisheries, Southeast Fisheries Science Center

*Research Associate, Social Science Research Group* (May 2018-July 2020/40 hours per week)

- Led an interdisciplinary team of scientists to collect oral histories and conduct participatory mapping with coastal stakeholders
- Analyzed qualitative data on the social and economic impact of Hurricanes Irma and Maria on commercial and recreational fishing industries
- Organized and facilitated focus groups, wrote reports, and designed pamphlets on the social dimensions of the yellowtail snapper fishery to inform fisheries management

*Fieldwork Technician*

- Completed boat-based research on the influence of seagrass structure and salinity on the recruitment of seagrass-associated epifauna using Artificial Seagrass Units

**The AOML South Florida Program**

*Research Assistant* (August 2019/10 day research cruise in the Gulf of Mexico)

- Deployed a CTD device to help monitor ecosystem restoration efforts in south Florida
- Collected samples to measure nutrients, plankton, productivity, chlorophyll a, and dissolved inorganic carbon

**Marine & Coastal Research, Corp., Miami, FL**

*Social Scientist* (2016-2018/20 hours per week)

- Designed a human-centered study to determine the resilience of coastal communities
- Independently completed in-person interviews and participatory mapping with stakeholders from diverse industries across Florida
- Wrote a report based on the collected qualitative and spatial data for the Florida Fish and Wildlife Conservation Commission

**The Biscayne Bay Economic and Spatial Study, Miami, FL**

*Survey Team Member* (Summer 2017/10 hours per week)

- Identified and surveyed stakeholders to determine the economic value and spatial flexibility of Biscayne Bay fisheries and recreational water operations
- Used SeaSketch, a mapping program, to complete participatory mapping with coastal stakeholders
- Worked in collaboration with NOAA, Florida Sea Grant, and Miami Waterkeeper

**Shark Research and Conservation Program, Miami, FL**

*Outreach Coordinator* (2016-2018/10 hours per week)

- Taught classes of all ages about shark conservation and biology
- Tagged and released sharks with a team of scientists
- Researched the long-term impact of outreach events through student participant surveys

**Mighty Earth, Miami, FL**

*Campaign Organizer* (August 2016- December 2017/20 hours per week)

- Developed a visually compelling website to disseminate information about deforestation
- Recruited volunteers for direct action events
- Gained widespread online publicity for environmental causes

**Waxman Strategies, Washington, DC**

*Oceans Intern* (June 2016 – August 2016/40 hours per week)

- Conducted interviews of Congressional staffers for The Packard Foundation
- Analyzed data and wrote fact sheets and memos

**Friday Harbor Laboratories, WA**

*Undergraduate Researcher* (Summer 2013/40 hours per week)

- Completed a five-week fieldwork course on marine mammal and shorebird ecology
- Conducted a behavioral study of Harbor Seals (*Phoca vitulina*)

**Herman, Herman and Katz Law Firm, New Orleans, LA**

*Assistant* (Summer 2012/40 hours per week)

- Assisted attorneys with data entry for the BP settlement
- Learned about the inner workings of environmental response compensation

**TEACHING**

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- Teaching Assistant, Environmental Policy and Economics, UCSC 2023
- Teaching Assistant, Capstone Course: Environmental Problem Solving, UCSC 2022
- Teaching Assistant and Guest Lecturer, Environmental Law and Policy, UCSC 2021
- Guest Lecturer, Caribbean Cultural, Historical, and Ecological Processes, UofA 2021
- Teaching Assistant, Environmental Policy and Economics, UCSC 2021
- Graduate Teaching Assistant, Coastal Management, University of Miami 2018
- Graduate Teaching Assistant, Fieldwork in Coastal Management, University of Miami 2018
- Educator, Shark Research and Conservation Program, University of Miami 2016-2018
- Educator, Marine Biology, The Newfound Harbor Marine Institute 2015

**PUBLICATIONS**

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**Stoltz, A.D.** 2024. “Pacifica: A Poem on Coastal Resilience.” *Disaster Prevention and Management* (In Press)

**Stoltz, A.D.** 2024. “Building Resilience to Coastal Hazards: An Analysis of Decision-Making and Environmental Justice on Changing Coasts” *UC Santa Cruz Electronic Theses and Dissertations*

**Stoltz, A.D.,** Won, O.M., Gee, K.C., Seto, K.L. 2024. “Environmental Justice of Coastal Hazards: A Systematic Literature Review.” (In Review at Climatic Change)

**Stoltz, A.D.,** Cravens, A.E., Lentz, E., and Himmelstoss, E. 2023. “User Engagement to Improve Coastal Data Access and Delivery.” *USGS Scientific Investigations Report*

Restrepo-Osorio, D.L., **Stoltz, A.D.** and Herman-Mercer, N.M. 2022. “Stakeholder Engagement to Guide Decision-Relevant Water Data Delivery.” *The Journal of the American Water Resources Association*

**Stoltz, A.D.,** Herman-Mercer, N., Cravens, A.E. 2022. “So you want to build a decision support tool? Assessing successes, pitfalls, and lessons learned for tool design and development.” *USGS Scientific Investigations Report*

Blake, S. D.; McPherson, M.; Karnauskas, M.; Sagarese, S.R.; Rios, A.; **Stoltz, A.D.**; Mastiski, A.; Jepson, M. 2022. “Use of Fishermen’s Local Ecological Knowledge to Understand Historic Red Tide Severity Patterns.” *Marine Policy*, 145, 105253.

Stoffle, B. W., and **A. D. Stoltz.** 2021. “Yellowtail Snapper: Human-Ecological Relationships in the South Florida Fishery.” *The Journal of Ecological Anthropology*

Dudley, Peter N.; Rogers, T.L.; Morales, M.M.; **Stoltz, A.D.**; Sheridan, C.J.; Beulke, A.K.; Pomeroy, C.; Carr, 2021. "A More Comprehensive Climate Vulnerability Assessment Framework for Fisheries Social-Ecological Systems." *Frontiers in Marine Science* 8: 674.

**Stoltz, A.D.**; Shivilani, M.; Glazer, R. Fishing Industry Perspectives on Sea-Level Rise Risk and Adaptation. *Water* 2021, 13, 1124. <https://doi.org/10.3390/w13081124>

Bragg, W.K.; Gonzalez, S.T.; Rabearisoa, A.; **Stoltz, A.D.** Communicating Managed Retreat in California. *Water* 2021, 13, 781.

Turley, B., M. Karnauskas, M. McPherson, S. Sagarese, A. Rios, M. Jepson, **A. Stoltz** and S. Blake. 2021. Local ecological knowledge outlining severe red tide events between 2000 – 2019 on the West Florida Shelf. SEDAR72-DW-09. SEDAR, North Charleston, SC. 19 pp.

Stoffle, B., **A.D. Stoltz**, and S. Crosson. 2020. In the Wake of Two Storms: An Impact Assessment of Hurricanes Irma and Maria on the St. Croix and St. Thomas Fisheries. *Applied Anthropology*.

Karnauskas, M., M. McPherson, S. Sagarese, A. Rios, M. Jepson, **A. Stoltz** and S. Blake. 2019. Timeline of severe red tide events on the West Florida Shelf: insights from oral histories. SEDAR61-WP-20. SEDAR, North Charleston, SC. 16 pp.

**Stoltz, A. D.**, "Determining Resilience in Cedar Key, Fort Myers Beach, and Conch Key: Fishing Industry Views on Sea Level Rise Risk and Adaptation" (2018). *University of Miami Open Access Theses*. 729.

## **CONFERENCE PRESENTATIONS (Presenting Author)**

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"Modeling Marsh Migration on the U.S. East Coast: Do the Goals of Scientists Align with the Needs of Coastal Decisionmakers?" **Ocean Sciences Meeting**, 2024 (presented by Erika Lentz)

"An Analysis of USGS Coastal Hazards Stakeholders: Blind Spots and Opportunities for Increasing the Diversity of Voices in Coastal Research" **Society for Applied Anthropology**, 2024

"The Coastal Science Navigator: An Online Gateway to USGS Coastal Change Hazards Information," **Social Coast**, 2024

"Stakeholder Engagement Informing Coastal Data Delivery," **American Shore and Beach Preservation Association**, 2023

"Barriers to Scientific Information for Coastal Decision-makers Working to Increase Coastal Community Resilience," **Society for Applied Anthropology**, 2023

"USGS Coastal Change Hazards Guided Discovery Hub," **Coastal GeoTools**, 2023

"A Comprehensive Framework for Mapping Potential Climate Change Impacts on Fisheries Socio-ecological Systems," **Society for Applied Anthropology**, 2022

"Two Storms and a Virus: An Examination of Adaptation to Perturbations in the USVI Fisheries," **Society for Applied Anthropology**, 2022

“Communicating Managed Retreat in California,” **Society for Applied Anthropology**, 2021

“Stakeholder Engagement to Inform Integrated Water Availability Assessment Data Delivery,” **USGS Water Mission Area Seminar Series**, 2020

“A Comprehensive Framework for Mapping Potential Climate Change Impacts on Fisheries Socio-ecological Systems,” **Western Society of Naturalists**, 2020

“Interdisciplinary Teamwork: When Social Scientists and Natural Scientists Work Together,” An event hosted at the **North American Congress for Conservation Biology**, 2020

“What Unites Us Is Greater than What Divides Us: An Examination of the Yellowtail Commercial and Recreational Fisheries in South Florida,” **Society for Applied Anthropology**, 2019

“Human Ecological Relationships between Natural Resource Users and Natural Resources: An Examination of the Florida Keys Yellowtail Snapper Fishery,” **NOAA Southeast Fisheries Science Center**, 2019

“Determining Resilience in Cedar Key, Fort Myers Beach, and Conch Key: Fishing Industry Views on Sea Level Rise Risk and Adaptation,” **Poster presentation at the Society for Applied Anthropology**, 2019

“The Power of Reputational Risk: Driving Supply Chain Transformation in the Palm Oil Industry and Beyond,” **Power Shift Southeast**, 2016

## INVITED TALKS

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- Stakeholder Perspective of Local Societal Needs (Panel Moderator), **The U.S. Coastal Research Program Decadal Visioning Workshop**, 2024
- Is Conservation “for the Birds?”: More Lessons Learned and Pathways for Integrating the Social Sciences into Equitable Conservation and Natural Resource Management (Panel Discussion), **Society for Applied Anthropology**, 2024
- So, you want to build a decision-support tool? Assessing successes, barriers, and lessons learned for tool design and development (Panel Discussion), **USGS Risk Community of Practice**, 2023
- Is Conservation “For the Birds”? Challenges and Opportunities for Incorporating Human Dimensions into Natural Resource Management and Conservation for more Equitable and Just Outcomes (Panel Discussion), **Society for Applied Anthropology**, 2023
- Earth and Planetary Science: Science & Justice (Panel Discussion), **University of California, Santa Cruz**, 2022
- Communicating Managed Retreat in California, **California’s Social Coast Forum**, 2022
- Profiling St. Croix Fisheries, **University of Arizona**, 2021

## HONORS & AWARDS

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The STAR Award, U.S. Geological Survey (2024)

The UCSC Newton Drury Endowment (2020)

The CONCUR, Inc. Scholarship Award in Environmental Studies (2020)

The UCSC Blum Scholar Grant (2020)

The Edward H. and Rosamond B. Spicer Student Travel Award (2020)

University of Miami Academic Scholarship (2017)

University of Miami Propeller Club Scholarship Award (2017)

### **OUTREACH & SERVICE**

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- Organizer, **Addressing the Institutional Challenges and Opportunities to Effective Climate Action in the Academic System** (conference) April 2024
- Reviewer for *Scientific Reports* February 2024
- Reviewer for *Weather, Climate, and Society* February 2024
- Reviewer for *Journal of Environmental Planning and Management* February 2023
- Reviewer for *Earth Science, Systems, and Society* April 2022
- Panelist and Reviewer, **USGS FY22 Risk Research and Applications Proposals** March 2022
- Judge, **35th Annual California State University Student Research Competition** April 2021
- Graduate Representative, **The UCSC Environmental Studies Graduate Committee** 2020-2021
- Judge, **34th Annual California State University Student Research Competition** April 2020
- Volunteer, **Debris Free Oceans; Surfrider; VolunteerCleanup.org**, Miami, FL 2016-2018
- Videographer's Assistant, **The National WWII Museum**, New Orleans, LA Summer 2014
- Fundraiser, **Gulf Restoration Network**, New Orleans LA Summer 2011
- Teacher's Assistant, **Sojourner Truth High School**, New Orleans, LA Fall 2010

### **SKILLS**

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MAXQDA, NVivo, ArcGIS Pro, UCInet, ArcMap, StoryMap, R Statistics, Stata, SeaSketch, Microsoft Office, Adobe Photoshop, Photography, Twitter, Facebook, WordPress, and Shorthand