# **Abbey Hotard**

Curriculum Vitae

Postdoctoral Research Fellow Disaster Research Center University of Delaware Email: ahotard@udel.edu Phone: (504) 722-7741

# **RESEARCH INTERESTS**

coastal hazard mitigation & climate adaptation; determinants and tradeoffs of household relocation/coastal retreat; environmental justice & equity; public policy for hazard risk reduction

## **PROFESSIONAL APPOINTMENTS**

2023 - present	University of Delaware
	Postdoctoral Research Fellow, Coastal Hazards, Equity, Economic Prosperity &
	Resilience (CHEER) Hub, Disaster Research Center

## **EDUCATION**

Ph.D., Coastal Management & Science, Texas A&M UniversityDec 2023Dissertation: Rethinking Relocation and Resilience: A Comparative Analysis of Household HazardAdaptation in the Greater Houston and New Orleans RegionsCommittee: Ashley D. Ross (chair), Meri Davlasheridze, Wesley E. Highfield, and Michelle A. Meyer

Master of Marine Resource Management, Texas A&M University2019Thesis: Relocation Considerations of Gulf Coast Residents Following the 2017 Hurricane Season for<br/>Hazard Risk ReductionCommittee: Ashley D. Ross (chair), Meri Davlasheridze, David P. Retchless, and Wesley E. Highfield

B.S., Coastal Environmental Science, Louisiana State University

Minor: Political Science

Thesis: *Effects of Increased Sedimentation on Carbon Accumulation of Salt Marsh Benthic Biofilms* Committee: Giulio Mariotti (chair), Tracy Quirk, and Carol Wilson

# **RESEARCH PUBLICATIONS & PRESENTATIONS**

## **Peer-Reviewed Publications**

- 1) **Hotard, A.**, Ross, A.D., (2023). Home Buyout without Relocation: An Examination of Dissonant Hazard Mitigation Perceptions among Gulf Coast Residents. *Risks, Hazards, Crisis in Public Policy*.
- Stanley, M. Hotard, A., Pilgreen, D., Meyer, M.A. (2023). Critical Review of National Flood Policy Outcomes. *Journal of Homeland Security and Emergency Management*. https://doi.org/10.1515/jhsem-2021-0059
- 3) Valentine, K., **Hotard, A.**, Quirk, T., Mariotti, G. (2022). Biofilms are important contributors to organic carbon in salt marsh sediments. *Wetlands*, 42(1). DOI:10.1007/s13157-021-01528-0

2017

 Ross, A. D., Hotard, A., Kamalanathan, M., Nolen, R., Hala, D., Clay, L. A., Kaiser, K., et al. (2020). Awareness Is Not Enough: Frequent Use of Water Pollution Information and Changes to Risky Behavior. *Sustainability*, *12*(20), 8695. MDPI AG. http://dx.doi.org/10.3390/su12208695

## Papers in Progress

- 1) **Hotard, A.** Rethinking Relocation and Resilience: Understanding How the Pushes and Pulls of Place Shape Relocation Decisions in the Greater Houston and New Orleans Regions.
- 2) Ross, A.D., **Hotard, A.**, Retchless, D., Davlasheridze, M. Are Disasters Red & Blue? Exploration of partisan influences on household choices in disaster response, recovery, and mitigation

## **Oral Presentations**

- 1) **Hotard, A.** "Rethinking Relocation and Resilience: Understanding How the Pushes and Pulls of Place Shape Relocation Decisions," State of the Coast, New Orleans, LA, 2023
- Hotard, A. "Household Adaptations to Coastal Hazards," Texas A&M University System Pathways Student Research Symposium Lightning Talks, College Station, TX, 2022 (2<sup>nd</sup> place doctoral presentation)
- 3) **Hotard, A**. "Household Adaptations to Coastal Hazards," Texas A&M University at Galveston Student Research Symposium Lightning Talks, Galveston, TX, 2022
- 4) **Hotard, A.** "Factors Influencing Relocation Consideration by Gulf Coast Residents for Hazard Risk Reduction," Gulf of Mexico Oil Spill and Ecosystem Science Conference, New Orleans, LA, 2019
- 5) Ross, A. D., A. Abelman, and **A. Hotard**. "The Role of Disaster Experience on Climate Change Belief and Concern," Southern Political Science Association Meeting, Austin, TX, 2019
- 6) **Hotard, A.**, Valentine, K., and G. Mariotti, "Carbon Storage by Salt Marsh Biofilm," LSU Discover Day, Baton Rouge, LA, 2017
- Carruthers, T. and A. Hotard. "Developing an Approach to Water Quality Trading Potential in Watersheds of Southern Louisiana," The Water Institute of the Gulf Research Presentation, Baton Rouge, LA, 2016

## **Poster Presentations**

- 1) **Hotard, A.** "Rethinking Relocation and Resilience: Understanding How the Pushes and Pulls of Place Shape Relocation Decisions," Natural Hazards Workshop, Broomfield, CO, 2023
- 2) **Hotard, A.** "Rethinking Relocation and Resilience: Understanding How the Pushes and Pulls of Place Shape Relocation Decisions," Managed Retreat, New York, NY, 2023
- 3) **Hotard, A.** "Factors Influencing Willingness to Relocate of Gulf Coast Residents for Hazard Risk Reduction," Natural Hazards Workshop, Broomfield, CO, 2018
- Hotard. A. "An Analysis of Governance Arrangements of Flood Risk Management in the Netherlands and the United States," NSF PIRE Coastal Flood Risk Reduction Research Program, Galveston, TX, 2018
- 5) **Hotard, A**. "The Certainty of Storm Surge," Coastal Environmental Sciences Capstone Exposition, Louisiana State University, Baton Rouge, LA

6) **Hotard, A.**, Valentine, K., and G. Mariotti, "Carbon Storage by Salt Marsh Biofilm," LSU Discover Day, Baton Rouge, LA, 2016 (Tiger's Choice Award for Best Poster in Major Division)

## **Invited Talks**

**1) Hotard, A**. "Coastal Resettlement," Introduction to Louisiana Service and Leadership Scholars Field Trip, Louisiana State University, LUMCON (Cocodrie, LA), Summer 2017

## **RESEARCH & PROFESSIONAL EXPERIENCE**

2020 - 2023	Doctoral Graduate Research Assistant   Department of Marine & Coastal
	Environmental Science, Texas A&M University at Galveston
	Activities: Conducted quantitative analysis of original survey data and qualitative
	analysis of original interviews of coastal residents impacted by Hurricane Ida; curated
	spatial socioeconomic and hazard risk (i.e., wind) data for quantitative analysis of wind
	insurance market; conducted qualitative analysis of interviews with insurance
	representatives; collaborated on report to Texas State Legislature; assessed the use of
	nature based solutions in mitigation projects funded by the Federal Emergency
	Management Agency
2019 - 2020	Science Policy Fellow with the Environmental Protection Agency, Gulf of Mexico
	Program   National Academies of Sciences, Engineering, & Medicine Gulf Research
	Program
	Activities: Reviewed project proposals related to trash reduction and community
	resilience; developed GIS story map communicating programmatic impact across Gulf
	of Mexico Watershed
2019 (Summer)	Intern   Federal Emergency Management Agency - Response Geospatial Office
	Activities: Developed storm surge loss estimation tool in ArcPy for use in ArcGIS
	during disaster response decision making
2017 - 2019	Master's Graduate Research Assistant   Department of Marine Sciences, Texas
	A&M University at Galveston
	Activities: Conducted household interviews in rural Texas communities affected by
	Hurricane Harvey
2018 (Sept.)	Disaster Field Researcher   Health Services Administration Department, D'Youville
	College
	Activities: Conducted individual interviews in North Carolina communities affected by
	Hurricane Florence; collected disaster related field observations

2018 (Fall)	Student Geographic Analyst   Texas Target Communities - Hitchcock Partnership
	Activities: Identified overlap of social inequities and physical vulnerabilities to
	hurricane storm surge and sea level rise in the city of Hitchcock, TX to make
	recommendations for future growth and development
2018 (Summer)	Graduate Student Researcher   National Science Foundation Partnerships for
	International Research and Education (PIRE), Coastal Flood Risk Reduction Program
	Activities: Conducted independent, field-based research in Amsterdam to compare
	governance structures for flood risk mitigation between the Netherlands and the United
	States; participated in interdisciplinary design workshops with U.S. and Dutch students
2015-2017	Undergraduate Researcher   Department of Oceanography & Coastal Sciences,
	Louisiana State University
	Activities: Constructed laboratory experiments to quantify carbon accumulation of salt

2016 (Jan.-Jul.) **Research Intern** | *The Water Institute of the Gulf, Baton Rouge, LA* 

<u>Activities</u>: Investigated literature and data sources for coastal Louisiana watershed nutrient trading; created nutrient trading potential maps for US Business Council for Sustainable Development

# TEACHING

# **Course Instruction**

Activities: Instructor of record for 3-hour undergraduate course on Coastal W	etlands		
Management (MARS 425; 21 students); developed course syllabus and lessor	n plans,		
including assignments and assessments; coordinated activities and field trips	for		
corequisite 1-hour Coastal Wetlands Lab (MARS 426; 19 students)	corequisite 1-hour Coastal Wetlands Lab (MARS 426; 19 students)		
Evaluation: MARS 425: 4.73/5.00 (57% response rate) and MARS 426: 4.82/	/5.00 (42%		
response rate), compared to 4.10 department average			
Selected Student Feedback:			
"Abbey understood that I was a conversional learner and engaged with discussions over the topic to reinforce the material."	me in		
<ul><li>"I found the activities and discussions during lecture to be extremely effective of the extrem</li></ul>	ective."		
Fall 2018   Teaching Assistant   Department of Marine Sciences, Texas A&M University	v at		
Galveston			
Activities: Assisted with graduate and undergraduate laboratory activities for	Activities: Assisted with graduate and undergraduate laboratory activities for GIS courses		
(MARS 325 & MARS 625); served as substitute lecturer			

## **Guest Lectures**

- "The Transition from Undergraduate Life," What's Next Symposium, Center for Academic Learning Support, Texas A&M University at Galveston, Spring 2022
- "Lessons from Louisiana Service and Leadership Scholars," HNRS 2013: The State of Louisiana, Louisiana State University, Baton Rouge, Spring 2020

#### Mentorship

- Summer 2018 Graduate Mentor | National Science Foundation Ocean and Coastal Research Experiences for Undergraduates (REU: OCEANUS), Texas A&M University at Galveston Activities: Instructed undergraduate student in quantitative and GIS analysis for project focused on climate change policy
- Fall 2017 Fieldwork Training | Community Resilience in Rural Communities affected by Hurricane Harvey, Texas A&M University at Galveston
  <u>Activities</u>: Prepared and conducted training for undergraduate students in recruiting and conducting household interviews in rural communities affected by Hurricane Harvey in Texas; mentored students during fieldwork

#### SERVICE

#### University Service

**Graduate Student Ambassador** | *Research and Graduate Studies, Texas A&M University at Galveston* <u>Duration</u>: August 2021 – May 2023

<u>Activities</u>: Recruited graduate students to Texas A&M University at Galveston through tours, participating in career fairs, and addressing prospective student emails; advocated for peers to the Research and Graduate Studies Office; collaborated on mentorship materials recommended to faculty; promoted peer engagement by planning social and service activities for graduate students

Senator | *Graduate & Professional Student Government, Texas A&M University, College Station, TX* <u>Duration</u>: March 2022 – May 2023

<u>Activities</u>: Served on the Scholarship Committee to award Research Presentation and Travel Awards to Texas A&M University graduate students; advocated for improved communication with and resources for graduate students based on the Galveston Campus

#### **Community Service**

#### Interpretive Guide Volunteer | Galveston Island State Park

Duration: November 2022 – September 2023

<u>Activities</u>: Assisted with public outreach and communication of coastal habitats and resources to park visitors and school groups; participated in restoration activities

Team Lead | St. Matthew the Apostle's Labor of Love Service Project

Duration: 2014 - 2017

<u>Activities</u>: Led team of high school students in summer community service for shut-ins and elderly; developed and facilitated social justice learning programs each year for 60-70 participants

Event Volunteer | *Texas A&M University at Galveston and Louisiana State University* The Big Event (2022, 2023) Geaux Big Baton Rouge (2016, 2017) Together Baton Rouge Gut Check Saturday (2016) LSU Community Bound (2013, 2015)

# **HONORS & AWARDS**

#### **Scholarships**

- 1) Bernice E. Powell Maritime Education Scholarship, Texas A&M University at Galveston (2023)
- 2) William Paul Ricker Memorial Leadership Scholarship, Texas A&M University at Galveston (2022)
- 3) Association of Former Students Graduate Scholarship, Texas A&M University at Galveston (2022)
- 4) Association of Former Students Graduate Scholarship, Texas A&M University at Galveston (2021)
- 5) 1-Year MCMS PhD Scholarship, Texas A&M University at Galveston (2020)
- 6) SeaSpace Endowed Graduate Student Scholarship, Texas A&M University at Galveston (2018)
- 7) Honors College Outstanding Senior, Roger Hadfield Ogden Honors College (2017)
- 8) Honorable Mention, Morris K. Udall and Stewart L. Udall Foundation (2016)

#### Fellowships & Grants

- 1) Erma Lee and Luke Mooney Travel Award, Texas A&M University at Galveston (2023)
- 2) Graduate Student Research and Presentation Travel Award, Texas A&M University (2023)
- 3) 1-Year Graduate Student "Boost" Funding, Texas A&M University at Galveston (2022-2023)
- 4) Erma Lee and Luke Mooney Travel Award, Texas A&M University at Galveston (2021)
- 5) National Academy of Sciences Gulf Research Program Science Policy Fellowship (2019-2020)
- 6) 2-Year Competitive Graduate Fellowship, Texas A&M University at Galveston (2017-2019)

## **CERTIFICATIONS & TRAINING**

CIRTL Associate - Fellow of the Academy for Future Faculty, Texas A&M University (2022) Certified Floodplain Manager (CFM), Texas Floodplain Managers Association (2020-present) POWER Writing Studio Basic Training, Texas A&M University (2022)

Florida Fish and Wildlife Conservation Commission Adapting to A Changing Gulf Region (2020)

Graduate Certificate in Geographic Information Sciences, Texas A&M University (2019)

Sustainable Adaptive Gradients in the Coastal Environment Interdisciplinary Short Course, Northeastern University (2018)

## **PROFESSIONAL ASSOCIATIONS**

Association of State Floodplain Managers – Member (2020-present) Texas Floodplain Management Association – Member (2020-present)