

Kelsi L. Furman

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Northeastern University Marine Science Center • 430 Nahant Rd, Nahant, MA 01908

EDUCATION

Northeastern University, College of Science

Ph.D. Candidate in Marine and Environmental Sciences

Concentration in Sustainability Sciences

Dissertation: *Integrating Ecological Variation and Environmental Justice for Coastal Planning*

Advisor: Dr. Steven Scyphers

2017-Present

Nahant, MA

Northeastern University, College of Science

B.S. in Environmental Science, *Cum Laude*

Concentration in Conservation Science, Minor in Marine Biology

Thesis: *Investigations of coastal residents' views on the condition & restoration of shorelines along an urbanization gradient*

Advisors: Drs. Steven Scyphers and Jonathan Grabowski

2012-2016

Boston, MA

RESEARCH & PROFESSIONAL EXPERIENCE

Ph.D. Candidate and NSF Graduate Research Fellow

Northeastern University Marine Science Center, Nahant, MA

Department of Marine and Environmental Sciences

Advisor: Dr. Steven Scyphers

Sept. 2017-Present

National Science Foundation Graduate Intern

NOAA Southeast Fisheries Science Center, Miami, FL

Sustainable Fisheries Division

Mentors: Drs. Shannon Cass-Calay and Skyler Sagarese

Jan. 2020-March 2020

Student Member, Social Science and Environmental Health Research Institute (SSEHRI)

Northeastern University, Boston, MA

Department of Sociology

Mentors: Drs. Sharon Harlan and Laura Seiner

Sept. 2017-Present

Research Technician

Northeastern University Marine Science Center, Nahant, MA

Department of Marine and Environmental Sciences

Advisors: Drs. Steven Scyphers and Jonathan Grabowski

May 2016-Aug. 2017

Program & Teaching Assistant

Northeastern University Three Seas Program

Smithsonian Tropical Research Institute, Bocas del Toro, Panama

University of Washington Friday Harbor Labs, Friday Harbor, WA

Sept. 2016-Dec. 2016

Research Assistant

Woods Hole Oceanographic Institution, Woods Hole, MA

Department of Biology

Advisor: Dr. Donald Anderson

June 2015-Dec. 2015

Undergraduate Study Abroad, Northeastern University Three Seas Program

Northeastern University Marine Science Center, Nahant, MA

Smithsonian Tropical Research Institute, Bocas del Toro, Panama

University of Washington Friday Harbor Labs, Friday Harbor, WA

Sept. 2014-May 2015

Field Assistant

May 2014

MIT Massachusetts Sea Grant
University of Massachusetts, Boston
Principal Investigator: Dr. Cascade Sorte

TEACHING EXPERIENCE

Mentor to Undergraduate Research Assistants

May 2017-Present

Northeastern University Marine Science Center, Nahant, MA
Marissa Fallico, Northeastern University '20
Jade Lin, Northeastern University '21
Marina Dreeban, Brandeis University '21
Elizabeth Conley, Northeastern University '18
Riddhi Samtani, Northeastern University '19
Sarah Gibbs, Northeastern University '21

Teaching Assistant, Northeastern University Three Seas Program

Sept. 2016-Dec. 2016

Smithsonian Tropical Research Institute, Bocas del Toro, Panama
Coral Reef Ecology
Tropical Terrestrial Ecology
University of Washington Friday Harbor Labs, Friday Harbor, WA
Marine Conservation Biology
Marine Mammals and Seabirds
Physiological Molecular Marine Ecology

Undergraduate Teaching Assistant

Jan. 2016-April 2016

Northeastern University Department of Marine and Environmental Sciences
Environmental Science

GRANTS AND AWARDS

National Science Foundation Graduate Research Internship Program, \$5,000	2020
Northeastern University Dept. Marine & Environmental Science Travel Award, \$500	2019
Northeastern University College of Science Travel Award, \$350	2019
National Science Foundation Graduate Research Fellowship, \$132,000	2017-2022
Northeastern University Department of Marine & Environmental Sciences Fellowship, \$38,000	2017-2018
Northeastern University Academic Excellence Scholarship, \$20,000	2012-2016
Stephen Phillips Memorial Scholarship, \$20,000	2012-2016
Frank M. and Olive F. Gilman Foundation Scholarship, \$20,000	2012-2016

PUBLICATIONS

Peer-Reviewed:

4. **Furman, K.**, Aminpour, P., Gray, S. and Scyphers, S. Mental models to assess social-ecological systems following disaster. *Submitted to Marine Policy*.
3. Scyphers, S., Beck, M., **Furman, K.**, Haner, J., Keeler, J., Landry, C., O'Donnell, K., Webb, B. and Grabowski, J. *In Press*. Designing effective incentives for living shorelines as a habitat conservation strategy along residential coasts. *Conservation Letters*.
2. Tomiczek, T., O'Donnell, K., **Furman, K.**, Webbmartin, B., Scyphers, S. 2020. Rapid damage assessments of shorelines and structures in the Florida Keys after Hurricane Irma. *Natural Hazards Review*.

1. Scyphers, S., Beck, M., **Furman, K.**, Haner, J., Josephs, L., Lynskey, R., Keeler, A., Landry, C., Power, S., Webb, B., and Grabowski, J. 2019. A waterfront view of coastal hazards: exploring relationships among exposure, shoreline type, and hazard concerns. *Sustainability*.

Non-Peer Review:

Furman, K. and Scyphers, S. 2020. Spatial variation and social equity in shore-based recreational fisheries in Key West, Florida. Proceedings of the Gulf and Caribbean Fisheries Institute. Volume 72.

Scyphers, S. and **Furman, K.** 2019. Social dimensions of the recreational fishery for Yellowtail Snapper (*Ocyurus chrysurus*) in Florida. SEDAR64-DW-17.

In Preparation:

Wilder, E., Contorno, L., Domond, R., **Furman, K.**, Bolson, J. and Harlan, S. Barriers to Sustainability: Community Perspectives on Urban Water Governance. *Manuscript in preparation for Society and Natural Resources*.

Furman, K., Scyphers, S., Ruth, M., Beck, M., Gittman, R. and Grabowski, J. Investigations of coastal residents' views on the condition & restoration of shorelines along an urbanization gradient. *Manuscript in preparation*.

PRESENTATIONS

Furman, K.*, Sagarese, S., Cass-Calay, S. and Scyphers, S. Developing and piloting a social equity framework for fisheries management. NOAA SocioEconomic Aspects in Stock Assessments Workshop (SEASAW). February 12, 2020. New Orleans, LA.

Furman, K.*, Sagarese, S., Cass-Calay, S. and Scyphers, S. Developing and piloting a social equity framework for fisheries management. NOAA Southeast Fisheries Science Center. January 31, 2020. Key Biscayne, Florida.

Furman, K.* and Scyphers, S. Spatial variation and social equity in shore-based recreational fisheries in Key West, Florida. Gulf and Caribbean Fisheries Institute. November 7, 2019. Punta Cana, Dominican Republic.

Furman, K., Gray, S. and Scyphers, S.* Assessing social-ecological systems following disasters: a case study using fuzzy-cognitive mapping post-Hurricane Irma in Key West, Florida. Coastal and Estuarine Research Federation. November 6, 2019. Mobile, AL.

Tomiczek, T.*, O'Donnell, K., **Furman, K.**, Webbmartin, B., Scyphers, S. Rapid damage assessments of shorelines and structures in the Florida Keys after Hurricane Irma. Coastal and Estuarine Research Federation. November 6, 2019. Mobile, AL.

Furman, K.*, Gray, S. and Scyphers, S. Assessing social-ecological systems following disasters: a case study using fuzzy-cognitive mapping post-Hurricane Irma in Key West, Florida. Northeastern University Marine Science Center Graduate Student Symposium. May 1, 2019. Nahant, MA.

Furman, K.*, Gray, S. and Scyphers, S. Assessing social-ecological systems following disasters: a case study using fuzzy-cognitive mapping post-Hurricane Irma in Key West, Florida. Challenges of Natural Resources Economics and Policy. May 20, 2019. New Orleans, LA.

Furman, K.*, Scyphers, S., Ruth, M., Beck, M., Gittman, R. and Grabowski, J. Investigations of coastal residents' views on the condition & restoration of shorelines along an urbanization gradient. Woods Hole Sea Grant Site Review. November 7, 2018. Woods Hole, MA. (Poster Presentation)

Wilder, E.*, Domond, R., **Furman, K.**, Contorno, L., Bolson, J., Mohamed, F., Harlan, S. Barriers to Sustainability: Community Perspectives on Urban Water Governance. American Association of Geographers. April 10, 2018. New Orleans, LA.

Furman, K.* and Scyphers, S. Integrating ecological variation and environmental justice for coastal planning in Key West, FL. Coastal and Estuarine Research Federation. November 8, 2017. Providence, RI. (Poster Presentation)

Furman, K.*, Scyphers, S., Ruth, M., Grabowski, J. Investigations of coastal residents' views on the condition & restoration of shorelines along an urbanization gradient. American Association of Geographers. April 8, 2017. Boston, MA.

Furman, K.*, Scyphers, S., Ruth, M., Grabowski, J. Investigations of coastal residents' views on the condition and restoration of shorelines along an urbanization gradient. American Association for the Advancement of Science Annual Meeting. February 19, 2017. Boston, MA. (Poster Presentation)

Furman, K.*, Scyphers, S., Ruth, M., Grabowski, J. Investigations of coastal residents' views on the condition and restoration of shorelines along an urbanization gradient. Community, Culture, and Conservation Conference at Colby College. April 7-9, 2016. Waterville, ME. (Poster Presentation)

Furman, K.*, Richlen, M., Kulis, D., Sehein, T., Brosnahan, M., Keafer, B., Anderson, D. Investigations of harmful algal bloom ecology: My Northeastern co-op experience. Northeastern University College of Science Co-op Expo. February 19, 2016. Boston, MA. (Poster Presentation)

Furman, K.*, Richlen, M., Kulis, D., Sehein, T., Brosnahan, M., Keafer, B., Anderson, D. Investigations of harmful algal bloom ecology: My Northeastern co-op experience. Woods Hole Oceanographic Institution Biology Department Summer Student Research Forum. August 7, 2015. Woods Hole, MA. (Poster Presentation)

*Presenter

OUTREACH & VOLUNTEER

Student Representative, Diving Safety Control Board, Northeastern University

Volunteer Fish Surveyor, Reef Environmental Education Foundation (REEF), Florida Keys, FL

Guest Lecture, Coastal Ocean Science Academy, Northeastern University Marine Science Center

Guest Lecture, Three Seas Program Diving Research Methods Class, Northeastern University Marine Science Center

Beneath the Waves Film Festival Organizer, Northeastern University Marine Biology Club

CERTIFICATIONS

Open Water Diver, Scuba School International (SSI), certified 2014

Scientific Research Diver (200+ research dives), American Association of Underwater Sciences (AAUS), certified 2014

Nitrox Diver, Technical Diving International (TDI), certified 2016

Dry Suit Diver, Technical Diving International (TDI), certified 2016

First Aid Administrator (CPR, O2, AED), Divers Alert Network (DAN) First Aid for Professional Divers, certified 2014

Washington State Boater, Boating Safety Education Program, certified 2016
