



## EDUCATION

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- 2022 **PhD** in Geography, Florida State University (FSU), Dept. of Geography  
Dissertation: “*Modeling biodiversity redistribution and ecosystem service provision in coastal marine environments*”
- 2014 **Dual MSc** in Marine Biology & Marine Policy, University of Maine (UM), School of Marine Sciences  
Thesis: “*Abiotic proxies for benthic faunal assemblages: A template for ocean planning?*”
- 2010 **BSc** in Marine Science, University of Maine, School of Marine Sciences

## PROFESSIONAL APPOINTMENTS & EMPLOYMENT

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- 2022- **Ocean Climate Solutions Postdoctoral Fellow**, Dept. of Biology, University of Victoria (UVic), Victoria, BC, CA.
- 2016-2017 **Lab Manager & Research Technician**, Depts. of Biological Sciences & Geography, Florida State University, Tallahassee, FL, USA
- 2014-2016 **Affiliated Researcher**, National Oceanic and Atmospheric Administration, Northeast Fisheries Science Center (NOAA NEFSC), Highlands, NJ, USA

## PUBLICATIONS

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- In prep Lester, S.E., J. McHenry, & A. Rassweiler. Optimizing multiple co-benefits of seagrass conservation and restoration. *In prep. Ecological Applications*.
- In review **McHenry, J.**, Okamoto, D.K., Filbee-Dexter, K., Krumhansel, K., MacGregor, K.A., Hessian-Lewis, M., Timmer, B., Csordas, M., Archambault, P., Attridge, C.M., Cottier, D., Costa, M., Johnson, L.E., Lessard, J., Mora-Soto, A., Metaxas, A., Pontier, O., Neufeld, C.J., Reshitnyk, L., Starko, S., Yakimishyn, J., & J.K. Baum. A blueprint for national assessments of the blue carbon potential of kelp forests with application to Canada’s three oceans. *In review. NPJ Ocean Sustainability*.
- Starko, S., Epstein, G., Chalifour, L., Bruce, K., Buzzoni, D., Csordas, M., Dimoff, S., Hansen, R, Maucieri, D., **McHenry, J.**, Tietjen, K., Timmer, B., & J.K. Baum. Ecological responses to ocean warming: a systematic review of the 2014-2016 Northeast Pacific marine heatwave. *In review. Biological Reviews*.
- 2024 Starko, S., B. Timmer, L. Reshitnyk, M. Csordas, **J. McHenry**, S. Schroeder, M. Hessian-Lewis, M. Costa, A. Zielinski, R. Zielinski, S. Cook, R. Underhill, L. Boyer, C. Fretwell, J. Yakimishyn, W.A. Heath, C. Gruman, J.K. Baum, & C. Neufeld. 2024. Local and regional variation in kelp loss and stability across coastal British Columbia. *Marine Ecological Progress Series*. [10.3354/meps14548](https://doi.org/10.3354/meps14548).
- 2023 **McHenry, J.**, A. Rassweiler & S.E. Lester. 2023. Seagrass ecosystem services show complex spatial patterns and associations. *Ecosystem Services*. [10.1016/j.ecoser.2023.101543](https://doi.org/10.1016/j.ecoser.2023.101543).

- McHenry J.**, A. Rassweiler, G. Hernan, A.K. Dubel, A.K., C. Curtin, N. Varias, J. Barzak & S.E. Lester. 2023. Geographic variation in blue carbon stored by seagrass beds. *Limnology & Oceanography*. [10.1002/lno.12343](https://doi.org/10.1002/lno.12343)
- 2021 **McHenry, J.**, A. Rassweiler, G. Hernan, C.K. Uejio, S. Pau, A.K. Dubel & S.E. Lester. Modeling the biodiversity enhancement value of seagrass beds. 2021. *Diversity & Distributions*. [10.1111/ddi.13379](https://doi.org/10.1111/ddi.13379)
- 2020 Lester, S. E., A.K. Dubel, G. Hernan, J. **McHenry** & A. Rassweiler. Applying spatial planning principles to marine ecosystem restoration. 2020. *Frontiers in Marine Science*. [10.3389/fmars.2020.00328](https://doi.org/10.3389/fmars.2020.00328)
- 2019 **McHenry, J.**, H. Welch H., S.E. Lester & V. Saba. 2019. Projecting marine species range shifts from only ocean temperature can mask climate vulnerability. *Global Change Biology*. [10.1111/gcb.14828](https://doi.org/10.1111/gcb.14828)
- Siegel, K. J., R.B. Cabral, J. **McHenry**, E. Ojea, B. Owashi & S.E. Lester. Sovereign states in the Caribbean have lower social-ecological vulnerability to coral bleaching than overseas territories. 2019. *Proceedings of the Royal Society B*. [10.1098/rspb.2018.2365](https://doi.org/10.1098/rspb.2018.2365)
- 2018 Welch H & J. **McHenry**. 2018. Planning for dynamic process: An assemblage-level surrogate strategy for species seasonal movement pathways. *Aquatic Conservation: Marine and Freshwater Ecosystems*. [10.1002/aqc.2857](https://doi.org/10.1002/aqc.2857)
- 2017 Lester, S. E., E.O. Ruff, K. Mayall, & J. **McHenry**. 2017. Exploring stakeholder perceptions of marine management in Bermuda. *Marine Policy*. [10.1016/j.marpol.2017.08.004](https://doi.org/10.1016/j.marpol.2017.08.004)
- McHenry, J.**, R.S. Steneck, & D.C. Brady. 2017. Abiotic proxies for predictive mapping of near-shore benthic assemblages: Implications for marine spatial planning. *Ecological Applications*. [10.1002/eap.1469](https://doi.org/10.1002/eap.1469)

## AWARDS AND GRANTS

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- 2018-2022 National Academies of Science, Engineering, and Medicine, Gulf Research Program, Research and Practice Grant, “Developing an integrated monitoring and assessment framework for evaluating ecosystem service outcomes from seagrass restoration in the Gulf of Mexico”, Sarah Lester (PI), co-wrote to fund PhD research (**\$365,700**).
- 2021-2022 FSU Congress of Graduate Students, Organization Fund Award (**\$1900**).
- 2020-2021 FSU Congress of Graduate Students, Organization Fund Award (**\$1140**).
- 2012 - UM Research Equipment Grant, Robert Steneck (PI), co-wrote to fund MS research (**\$40,000**).

## HONORS

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- 2020 Undergraduate Research Opportunities Program, Mentorship Award Nominee, FSU
- 2008 Presidential Scholar, UM
- 2008 & 2009 Marguerite and Henry Evans Scholar, UM

## SELECTED CONFERENCES AND INVITED SEMINARS

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- 2024 University of Victoria, Dept. of Biology, Guest Lecture, “Ecological impacts of climate change in seagrass ecosystems”, (Virtual)

- Dalhousie University, Dept. of Biology, Guest Lecture, "Marine plants in the 21<sup>st</sup> century: implications of marine range shifts for blue carbon ecosystems", (Virtual)
- 2023 Camosun College, Dept. of Biology, Guest Lecture, "Ocean climate change and ocean climate solutions", Victoria, BC
- University of British Columbia, Dept. of Zoology, Guest Lecture, "Seagrasses as blue carbon ecosystems", Vancouver, BC
- Ecological Society of America, Poster, "Seagrass ecosystem services show complex spatial patterns and associations along the Florida Gulf Coast", Portland, OR.
- Coastal Zone Canada Conference, Presentation & Session Organizer, "Blue carbon potential of Canada's expansive kelp forests: A first assessment", Victoria, BC
- University of Washington, School of Aquatic and Fisheries Science, Invited Seminar, "Modeling the spatial ecology of marine ecosystem change: Implications for management and restoration", Seattle, WA
- University of Victoria, Dept. of Biology, Guest Lecture, "Ecological impacts of climate change in seagrass ecosystems", Victoria, BC
- 2022 IMPAC5, Presenter & Side Event Organizer, "Blue carbon potential of Canada's expansive kelp forests: A first assessment", Vancouver, BC
- International Biogeography Society Meeting, Presentation, "Modeling the biodiversity enhancement value of seagrass beds", Vancouver, BC.
- NavHub Seminar Series, Invited Speaker, "Projecting marine species range shifts from only temperature can mask climate vulnerability", (Virtual).
- 2021 The Surfrider Foundation at FSU, Invited Speaker (Virtual).
- Geo Hab Conference, Presentation, "Modeling the biodiversity enhancement value of seagrass beds", (Virtual).
- American Association of Geographers Annual Meeting, Poster, "Geographic variation in carbon storage in Florida seagrass beds", New York. (Virtual).
- 2018 American Association of Geographers Meeting, Presentation, "Marine range shift projections based only on temperature mask climate vulnerability", New Orleans, LA.
- 2017 Florida State University, Dept. of Geography, Guest Lectures, Tallahassee, FL
- 2016 Benthic Ecology Meeting, Presentation, "Modeling temporally explicit species assemblages to create regional habitat maps for spatial management", Portland, ME.

## TEACHING EXPERIENCE

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### Course Development & Teaching Assistant:

- Coastal Climate Solutions Foundations. Coastal Climate Solutions Leaders Program. UVic (2023).

### Instructor of Record:

- Introduction to Geographic Information Systems Laboratory. FSU (2021).

### Graduate Teaching Assistant:

- Biogeography. FSU (2017).
- Marine Ecology. Semester by the Sea Program, UM (2011, 2012).
- Marine Invertebrate Zoology. Semester by the Sea Program, UM (2011, 2012).



## MENTORSHIP

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### Graduate Students:

- UVic— K. Zerr (2024-Present, M.Sc. Student), M. Csordas (2022-Present; PhD student), B. Timmer (2022; PhD student).
- UBC—A. Park (2023-Present, PhD student), V. Valenti (2023-Present, MS)
- FSU—Divina Lade (2021; MS).

### Undergraduates:

- FSU—S. Rosengarten<sup>+</sup> (2021), C. Curtin (2020-2021), J. Rubio\* (2020-2021), J. Barzak\* (2019-2021), N. Varias (2019-2021), B. Witmer<sup>°</sup> (2017-2019).
- UM—A. Lowell (2013), J. Manning (2013), A. Dimoulas (2013), M. Wilson (2013), A. Hamlin (2013), E. Asp (2012), A. Hawkins (2012), S. Prendergast (2011), E. Ford (2010), O. Liu (2010), B. Gutzler (2010).

<sup>+</sup>FSU Women in Math, Science, and Engineering Program. <sup>\*</sup>FSU Undergraduate Research Opportunities Program. <sup>°</sup>Directed Independent Study.

## SERVICE

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- **Reviewer for refereed journals:** Nature Communications, Global Change Biology, Diversity and Distributions, Ecography, Marine Ecology Progress Series, Aquatic Conservation: Marine and Freshwater Ecosystems, Fisheries Research, and Ecology and Evolution.
- **Society Memberships:** Ecological Society of America (2022-Present); International Society of Biogeography (2020- Present), Society of Conservation Biology (2020-Present), American Association of Geographers (2017- Present), American Association of Underwater Sciences (2012- 2020), Florida Native Plants Society (2021-2022).
- **DEI:** UVic Indigenous Cultural Acumen Training (2023), FSU Women in Science, Math, and Engineering Program (Mentor; 2019-2022), FSU College of Social Sciences and Public Policy Women Graduate Student Network (2018-2022).
- **Leadership Roles:** FSU Graduate Researchers of Geography group (Executive Board; 2018-2021), UM Graduate Symposium Committee (Organizer; 2011-2013).

## OUTREACH

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### Research Dissemination

- Biodiversity Enhancement Value Tool ([https://jennifermchenry.shinyapps.io/seagrass\\_bev/](https://jennifermchenry.shinyapps.io/seagrass_bev/))
- Beyond Temperature Tool ([https://heatherwelch.shinyapps.io/beyond\\_temperature/](https://heatherwelch.shinyapps.io/beyond_temperature/))

### Education and Public Outreach

- FSU Coastal and Marine Lab - Open House Exhibit (2021)
- UM Outreach to Visiting K-12 and College Students, Semester by the Sea Program. (2011-2014)

## WORKSHOPS AND TRAININGS

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- 2023 Coastal Climate Solutions Leaders Cohort, University of Victoria, Victoria, BC
- 2021 Reproducible Research Techniques for Synthesis (Virtual), National Center for Ecological Analysis and Synthesis  
Bayesian Species Distribution Modeling (Virtual), International Biogeography Society
- 2018 R and SQL Data Carpentry, National Academies Gulf Research Program, Corpus Christi, Texas, USA