

## W. Ryan James

Senior Postdoctoral Research Associate

Florida International University

**Curriculum Vitae, May 2, 2023**

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### **EDUCATION**

- 2020**                      **PhD Environmental and Evolutionary Biology**  
University of Louisiana at Lafayette (Advisor: James A. Nelson)
- 2016**                      **MS Biology**  
University of Alabama at Birmingham (Advisor: James B. McClintock)
- 2013**                      **BS Biology**  
University of Alabama (Advisor: Ryan L. Earley)

### **EMPLOYMENT**

- 2022-Current**                      **Senior Postdoctoral Research Associate** - Institute of Environment  
Florida International University, *Miami, FL* (Mentors: Dr. Rolando O. Santos, Dr. Jennifer S. Rehage)
- 2020-2022**                      **Postdoctoral Research Associate** – Institute of Environment  
Florida International University, *Miami, FL* (Mentors: Dr. Rolando O. Santos, Dr. Jennifer S. Rehage)
- 2016-2020**                      **University Doctoral Fellow** – Ecosystem Ecology Lab  
University of Louisiana at Lafayette, *Lafayette, Louisiana*
- 2019-2020**                      **Acoustic Telemetry Technician**  
Jesco Environmental, *Portsmouth, New Hampshire*
- 2019-2020**                      **Menhaden Port Sampler**  
Gulf States Marine Fisheries Commission, *Abbeville, Louisiana*
- 2016**                              **ACES Intern** – Lab for Advanced Sensing  
NASA Ames Research Center, *Mountain View, California* (Mentor: Dr. Ved Chirayath)
- 2014-2016**                      **Graduate Teaching Assistant** – McClintock Lab  
University of Alabama at Birmingham, *Birmingham, AL*
- 2012-2014**                      **Research Assistant** – Earley Animal Behavior Lab  
University of Alabama, *Tuscaloosa, AL*

### **PUBLICATIONS**

25. Rodemann JR, **James WR**, Rehage JS, Baktoft H, Costa SV, Ellis RD, Gonzalez L & RO Santos (2023) Residency and fine-scale habitat use of juvenile goliath grouper (*Epinephelus itajara*) in a mangrove nursery. *Bulletin of Marine Science*  
<https://doi.org/10.5343/bms.2022.0061>
24. Calhoun-Grosch S, Foster EM, **James WR**, Santos RO, Rehage JS, & JA Nelson (2023) Trophic niche metrics reveal long-term shift in Florida Bay food webs. *Ecosystems*  
<https://doi.org/10.1007/s10021-023-00825-5>

23. Massie JA, Santos, RO, Rezek, RJ, **James, WR**, Viadero, NM, Boucek, RE, Blewett DA, Trotter AA, Stevens PW, & JS Rehage (2022). Primed and cued: long-term acoustic telemetry links interannual and seasonal variations in freshwater flows to the spawning migrations of Common Snook in the Florida Everglades. *Movement Ecology* <https://doi.org/10.1186/s40462-022-00350-5>
22. Gervasi CL, Nelson JA, Swart PK, Santos RO, Rezek RJ, **James WR**, Jefferson AE, Drymon JM, Carroll J, Boucek RE, & JS Rehage (2022) Otolith stable isotope micro-sampling to discriminate poorly studied stocks: Crevalle Jack in the eastern Gulf of Mexico. *Estuarine, Coastal and Shelf Science* <https://doi.org/10.1016/j.ecss.2022.108130>
21. **James WR**, Bautista V, Rezek RJ, Zink IC, Rehage JS, & RO Santos (2022) A review of the potential impacts of commercial inshore pink shrimp fisheries on recreational flats fisheries in Biscayne Bay, FL, USA. *Environmental Biology of Fishes* <https://doi.org/10.1007/s10641-022-01319-4>  
*\*Special issue: Conservation Connections: Science informing management for flats fisheries*
20. Rezek RJ, **James WR**, Bautista V, Zink IC, Rehage JS, & RO Santos (2022) Temporal trends of Biscayne Bay pink shrimp fisheries catch and economic indicators. *Environmental Biology of Fishes* <https://doi.org/10.1007/s10641-022-01314-9>  
*\*Special issue: Conservation Connections: Science informing management for flats fisheries*
19. **James WR**, Santos RO, Rodemann JR, Rezek RJ, Fratto ZW, Furman BT, Hall MO, Kelble CR, Rehage JS, & JA Nelson (2022) Widespread seagrass die-off has no legacy effect on basal resource use of seagrass food webs in Florida Bay, USA. *ICES Journal of Marine Science fsac112*, <https://doi.org/10.1093/icesjms/fsac112>
18. Santos RO, **James WR**, Nelson JA, Rehage JS, Serafy J, Pittman SJ, & D Lirman (2022) Influence of seascape spatial pattern on the trophic niche of an omnivorous fish. *Ecosphere* <https://doi.org/10.1002/ecs2.3944>
17. **James WR**, Santos RO, Rehage JS, Doerr JC, & JA Nelson (2021) E-scape: consumer specific landscapes of energetic resources derived from stable isotope analysis and remote sensing. *Journal of Animal Ecology* <https://doi.org/10.1111/1365-2656.13637>  
 (Pre-print bioRxiv 2020 doi: <https://doi.org/10.1101/2020.08.03.234781>)
16. Rodemann JR, **James WR**, Santos RO, Furman BT, Fratto ZW, Bautista V, Hernandez JL, Viadero NM, Linenfelser JO, Lacy LA, Hall MO, Kelble CR, Kavanaugh C, & JS Rehage (2021) Impact of extreme disturbances on suspended sediment in Western Florida Bay: Implications for seagrass resilience. *Frontiers in Marine Science* <https://doi.org/10.3389/fmars.2021.633240>  
*\*Special issue: Environmental Threats to the State of Florida—Climate Change and Beyond*
15. Gervasi CL, Santos RO, Rezek RJ, **James WR**, Boucek RE, Bradshaw C, Kavanagh C, Osborne J, & JS Rehage (2021) Bottom-up conservation: Using translational ecology to

inform conservation priorities for a recreational fishery. *Canadian Journal of Fisheries and Aquatic Sciences* <https://doi.org/10.1139/cjfas-2021-0024>

14. Kimball ME, Connolly RM, Alford SB, Colombano DD, **James WR**, Kenworth MD, Norris GS, Ollerhead J, Ramsden S, Rehage JS, Sparks EL, Waltham NJ, Worthington TA, & MD Taylor (2021) Novel applications of technology for advancing tidal marsh ecology. *Estuaries & Coasts* doi: 10.1007/s12237-021-00939-w  
\*Special issue: *Concepts and controversies in tidal marsh ecology revisited.*
13. Pittman SJ, Yates KL, Bouchet PJ,... **James WR**... (34 additional authors) (2021) Seascape ecology: Identifying research priorities for an emerging ocean sustainability science. *Marine Ecology Progress Series* <https://doi.org/10.3354/meps13661>
12. Nelson JA, Harris JM, Lesser JS, **James WR**, Suir SM, & WP Broussard III (2020) New mapping metrics to test functional response of food webs to coastal restoration. *Food webs* <https://doi.org/10.1016/j.fooweb.2020.e00179>  
\*Special issue: *Restoration Initiatives Viewed Through a Lens of Food Web Structure and Dynamics*
11. Jones SF, Stagg CL, Yando ES, **James WR**, Buffington KJ, & MW Hester (2020) Stress gradients interact with disturbance to reveal alternative states in salt marsh: Multivariate resilience at the landscape scale. *Journal of Ecology* <https://doi.org/10.1111/1365-2745.13552>  
\*Special issue: *Reconciling resilience across ecological systems, species and subdisciplines.*
10. Baker R, Taylor MD, Beck MW, Cebrian J, Colombano DD, Connolly RM, Currin C, Deegan LA, Feller IC, Gilby BL, Kimball ME, Minello TJ, Rozas LP, Simenstad C, Turner RE, Waltham NJ, Weinstein MP, Ziegler SL, zu Ermgassen PSE, ... **James WR**... (29 additional authors) (2020) Fisheries rely on threatened salt marshes. *Science* doi: 10.1126/science.abe9332
9. **James WR**, Topor ZM, & RO Santos (2020) Seascape structure influences the community structure of marsh nekton. *Estuaries & Coasts* doi: 10.1007/s12237-020-00853-7  
\*Special issue: *Concepts and controversies in tidal marsh ecology revisited.*
8. Harris JM<sup>†</sup>, **James WR**<sup>†</sup>, Lesser JS<sup>†</sup>, Doerr JC, & JA Nelson (2020) Foundation species shift alters the energetic landscape of marsh nekton. *Estuaries & Coasts* doi: 10.1007/s12237-020-00852-8  
<sup>†</sup>Contributed equally  
\*Special issue: *Concepts and controversies in tidal marsh ecology revisited.*
7. Lesser JS, **James WR**, Stallings CD, Wilson RM, & JA Nelson (2020) Trophic niche size and overlap decrease with increasing ecosystem productivity. *Oikos* doi: 10.1111/oik.07026

6. **James WR**, JS Lesser, SY Litvin, & JA Nelson (2020) Assessment of food web recovery following restoration using resource use metrics. *Science of the Total Environment* doi: 10.1016/j.scitotenv.2019.134801.
5. Nelson JA, Lesser JS, **James WR**, Behringer DP, Furka V, & JC Doerr (2019) Food web response to foundation species change in a coastal ecosystem. *Food Webs* e00125 <https://doi.org/10.1016/j.fooweb.2019.e00125>
4. Eggenberger CW, Santos RO, Frankovich T, **James WR**, Madden C, Nelson JA, & JS Rehage (2019) Coupling telemetry and stable isotope techniques to unravel movement: Snook habitat use across variable nutrient environments. *Fisheries Research* <https://doi.org/10.1016/j.fishres.2019.04.008>
3. **James WR**, Styga JM, White S, Marson KM, & RL Earley (2018) Developmentally plastic responses to predation threat in the mangrove rivulus fish (*Kryptolebias marmoratus*): behavior and morphology. *Evolutionary Ecology* <https://doi.org/10.1007/s10682-018-9952-5>
2. **James WR** & JB McClintock (2017) Anti-predator responses of amphipods are more effective in the presence of conspecific chemical cues. *Hydrobiologia* <https://doi.org/10.1007/s10750-017-3191-6>
1. Smith KE, Aronson RB, Steffel BV, Amsler MO, Thatje S, Singh H, Anderson J, Brother CJ, Brown A, Ellis DS, Havenhand JN, **James WR**, Mosknes P, Randolph AW, Sayre-McCord T, & JB McClintock (2017) Climate change and the threat of novel marine predators in Antarctica. *Ecosphere* <https://doi.org/10.1002/ecs2.2017>

#### ***Manuscripts under review***

- Yando ES\*, Jones SF\*, **James WR\***, Colombano DD, Montemayor DI, Nolte S, Raw JL, Ziegler SL, Chen L, Daffonchio D, Fusi M, Rogers K, & L Sergienko. (*in revision*) An integrative salt marsh conceptual framework for global comparisons.  
\*Contributed equally
- Linenfelser JO, **James WR**, Rezek RJ, Santos RO, Frankovich TA, Madden C, Nelson JA, & JS Rehage (*in review*) Tracing the source of nutrients entering North-Central Florida Bay: a stable isotope approach.
- Rezek RJ, Massie JA, Nelson JA, Santos RO, Viadero NM, **James WR**, Boucek RE, & JS Rehage (*in revision*) The effects of temperature and flooding duration on the structure and magnitude of a floodplain prey subsidy.
- Foster EM, **James WR**, Doerr JC, & JA Nelson (*in review*) Seasonal shifts in resource use alter niche size, niche overlap, and trophic position in salt marsh consumers.
- Gervasi CL, Karnauskas M, Rios A, Santos RO, **James WR**, Rezek RJ, & JS Rehage (*in revision*) Rapid approach for assessing an unregulated fishery using a series of data-limited tools.

**FUNDING (\$3,452,493 total funding)**

- 2023** Increasing knowledge of Biscayne Bay's science status and trends: Identify monitoring course of action through a synthesis of experts' knowledge – Co-PI: Funded by Florida Sea Grant (2023), \$9,708
- 2022** Seagrass seascape state, stability, and function in relation to water quality in Biscayne Bay – PI: Funded by US Environmental Protection Agency South Florida Geographic Program (2022-24), \$347,738
- RAPID: Here we go again - The fate of *Diadema antillarum* and Caribbean reefs in the 21st century – Co-PI: Funded by National Science Foundation, Biological Oceanography (2022-2023), \$199,676
- An examination of the risk of pharmaceuticals in South Florida: extent and pathways of exposure in a valuable recreational fishery, bonefish – Co-PI: Funded by US Environmental Protection Agency South Florida Geographic Program (2022-23), \$292,530
- A Statewide survey of pharmaceutical exposure: Red Drum in 9 Florida estuaries – Co-PI: Funded by Bonefish and Tarpon Trust (2022), \$158,149
- Quantifying ecological importance, historical threat exposure and resilience potential for coral reef Areas of Special Interest in Puerto Rico's Northeast Marine Corridor to support efficient conservation goals – Co-PI: Funded by Puerto Rico Sea Grant College Program (2022-24), \$119,425
- Redesign of the Everglades fishing guide reporting system – Co-PI: Funded by Everglades National Park (2022-2023), \$109,028
- Role of coastal lakes as habitat for recreational fisheries – Co-PI: Funded by South Florida Water Management District (2022), \$170,000
- An Examination of Wastewater Treatment in Miami-Dade and Monroe Counties: a focus on the removal of pharmaceuticals and potential threat to water quality in the Everglades and Biscayne Bay – Co-PI and REU mentor: Funded by National Science Foundation, Florida Coastal Everglades Long-term Ecological Research (DEB-2025954), Research Experiences for Undergraduates (REU) (2021), \$6,750
- 2021** FISHSCAPE Project (Fish In Seagrass Habitats: Seascape Connectivity Across Protected Ecosystems)– Postdoc and grant writer: Funded by NOAA National Centers for Coastal Ocean Science (2021-25), \$1,916,914
- Biscayne Bay shrimp commercial harvest and its potential ecological impacts on the recreationally fish species – Co-PI: Funded by Bonefish and Tarpon Trust (2021), \$16,575

The effects of the legacies of a large-scale seagrass die-off on energy resources and foraging of a top consumer – Co-PI and REU mentor: Funded by National Science Foundation, Florida Coastal Everglades Long-term Ecological Research (DEB-2025954), Research Experiences for Undergraduates (REU) (2021), \$6,750

- 2016-2020**      UL University Fellow; \$90,000  
                     UL Graduate Student Organization Research Supply Grant; \$1060 total
- 2017-2019**      UL Graduate Student Organization Travel Grant; \$1240 total
- 2017**            Coastal and Estuarine Research Federation Travel Grant; \$300
- 2016**            Ted Beaulieu Sr. Coastal Conservation Association Louisiana Scholarship; \$5000
- 2015**            UAB Biology Department Travel Grant; \$400  
                     Society for Integrative and Comparative Biology Grant in Aid of Research; \$850  
                     Sigma Xi Grant in Aid of Research; \$400

***Proposals pending or not selected for funding (\$723,189 total pending)***

- 2022**            Visual identification, population assessment, and habitat suitability of juvenile Goliath Grouper (*Epinephelus itajara*) in South Florida – Co-PI: Submitted to NOAA Marine Fisheries Initiative, \$524,566 (*Pending*)  
  
                     Examining juvenile Goliath Grouper habitat use and abundance patterns in Florida Bay and the Florida Keys – Co-PI: Submitted to NOAA Cooperative Research Program, \$198,623 (*Pending*)  
  
                     Standardizing and comparing food web structure and function across LTER sites - PI: Submitted to National Center for Ecological Analysis and Synthesis, \$109,200 (*Not selected for funding*)
- 2021**            The influence of nearshore inputs (freshwater inflows) on the habitat use of an ecosystem indicator species: Spotted Seatrout in Florida Bay – Co-PI: Submitted to the US Coastal Research Program, \$279,158 (*Not selected for funding*)  
  
                     Assessing the resilience of coastal fisheries through a comprehensive analysis of fisheries-dependent records: the Everglades as a case study – Co-PI: Submitted to the US Coastal Research Program, \$283,844 (*Not selected for funding*)  
  
                     Quantifying coral demographic performance within a functional trait space to inform coastal ecosystem conservation – Co-PI: Submitted to the US Coastal Research Program, \$299,005 (*Not selected for funding*)
- 2020**            Critical data for Dolphin (*Coryphaena hippurus*) fisheries sustainability: Assessing stock structure, properties, trends & vulnerabilities across U.S. jurisdictions – Co-PI: Submitted to NOAA Marine Fisheries Initiative, \$524,000 (*Not selected for funding*)

**MENTORING**

- 2020-Present Graduate and Undergraduate Student Research Mentor**, Florida International University – Part of the lab leadership team that mentors 14 graduate students, 4 REUs, and 5 undergraduate research technicians
- 2016-2020 Undergraduate Student Research Mentor**, University of Louisiana at Lafayette  
 Laura McDonald – *The energy storage of nekton species in coastal Louisiana habitats*
- Presented at the Coastal and Estuarine Research Federation meeting (CERF 2019) in Mobile, AL
  - Presented research at the UL Biology undergraduate research conference  
*The effect of feeding mode on energy storage in three fish species*
  - Presented research at the UL honors program undergraduate research conference  
 Blake Kitchen - *The role of food quality in growth and energy storage in killifish*
- 2015-2016 Undergraduate Student Research Mentor**, University of Alabama at Birmingham  
 Ciara Duncan - *Predators effect the foraging behavior of the amphipod Hyalella azteca*
- Received 2<sup>nd</sup> place award for poster presentation at UAB Undergraduate Student Research Days
- Keegan McFarland and Deontae Mitchell - *Transgenerational effects of predator exposure of the amphipod Hyalella azteca*

## **TEACHING EXPERIENCE**

### ***Teaching***

- 2022** *R workshop on population and community ecological modeling* – Co-Instructor, Florida International University
- 2020** *Fish Ecology and Management* – Teaching Assistant, University of Louisiana at Lafayette
- 2019** *Introduction to R* – Teaching Assistant, University of Louisiana at Lafayette
- 2018** *Fundamentals of Biology II Lab* – Teaching Assistant, University of Louisiana at Lafayette
- 2017** *Landscape Ecology* – Teaching Assistant, University of Louisiana at Lafayette
- 2014-2016** *Introductory Biology Lab* – Teaching Assistant, University of Alabama at Birmingham

### ***Guest Lectures***

- 2021** “Intro into R: data types, loops, functions, random sampling, and plotting” (2 part), *Advanced Ecology: Populations and Communities*  
 “Habitat loss and fragmentation effects in seascapes”, *Biodiversity Across Ecosystems*
- 2020** “Introduction to food webs”, *Intro to Coastal Ecology*
- 2019** “Data wrangling in R” (2 part), *Quantitative Ecology*  
 “Effect of landscape pattern on ecological processes” (3 part), *Ecosystem landscape ecology*

- 2015** “Maximum entropy ecological niche modeling in R”, *Ecological models and data*  
 “Long distance prey finding”, *Chemical Ecology*

**SELECTED PRESENTATIONS** (\*undergraduate mentee)

- 2023** **James WR**, Rodemann JR, Badlowski G, Bautista B, Castillo N, Costa SV, Distrubell A, Eggenberger CW, Kabat L, Linenfelser JO, Rivas N, Sandquist M, Sturges J, Trabelsi S, Rehage JS, & RO Santos. Seasonal variation in trophic niche size and overlap in a seagrass food web. Benthic Ecology Meeting; Miami, FL

- 2022** **James WR**, Drivers of ecosystem function: from pharmaceuticals to seascapes. University of Memphis (Invited)

**James WR**, *Bautista V\**, Rezek RJ, Zink IC, Rehage JS, & Santos RO. The Biscayne Bay commercial shrimp harvest and its potential ecological impacts of recreational fish species. Bonefish & Tarpon Trust Science Symposium and Flats Expo; Palm Beach, FL

**James WR**, Rodemann JR, Fratto ZW, Furman BT, Rehage JS, & Santos RO. Using *E*-scapes to quantify the change in trophic function of seagrass habitats in response to large-scale seagrass die-off. International Seagrass Biology Workshop; Annapolis, MD

**James WR**, Rodemann JR, *Gonzalez L\**, Baktoft H, Ellis RD, Santos RO, & Rehage JS. Fine scale movement of juvenile Goliath Grouper. FACT Network; Melbourne, FL

- 2021** **James WR**, A seascape approach to consumer movement, distribution, and resource use. Virtual Colloquium, Department of Biological Sciences Walla Walla University (Invited)

**James WR**, Rodemann JR, Rezek RJ, Fratto ZW, Furman BT, Rehage JS, & Santos RO. Using *E*-scapes to quantify the change in energetic resource distribution and foraging of seagrass consumers. Coastal and Estuarine Research Federation

*Ajavon A\**, **James WR**, Rodemann JR, Rezek RJ, Fratto ZW, Furman BT, Rehage JS, & Santos RO. The role of seascape configuration on seagrass food web structure and function. Coastal and Estuarine Research Federation

**James WR**, Rehage JS, & Santos RO. Mapping energy flow: *E*-scapes as a system-level tool to evaluate restoration and ecosystem function. Greater Everglades Ecosystem Restoration



- 2019**      **James WR**, Geary B, Karubian J, Leberg PL, & Nelson JA. Tracking foraging behavior using consumer-specific energetic landscapes. Coastal and Estuarine Research Federation; Mobile, AL
- McDonald L\**, **James WR**, Robinson KL, & Nelson JA. The energy storage of nekton species across a continuum of coastal Louisiana habitats. Coastal and Estuarine Research Federation; Mobile, AL
- Nelson JA, Lesser JS, & **James WR**. A new niche for isotope ecology: Combining MixSIAR and hypervolume metrics to understand resource use. Coastal and Estuarine Research Federation; Mobile, AL
- James WR**, Santos RO, Rodemann JR, Rehage JS, & JA Nelson. Consumer-specific energetic landscapes in Florida Bay: linking seagrass die off to economically valuable fisheries. Greater Everglades Ecosystem Restoration; Coral Springs, FL
- 2018**      **James WR**, Lesser JS, Litvin SY & Nelson JA. Assessment of food web recovery following restoration using hypervolume analysis. Gulf Estuarine Research Society; Galveston, TX
- Lesser JS, **James WR**, Doerr J & Nelson JA. Food web effects of mangrove encroachment on estuarine consumers. Gulf Estuarine Research Society; Galveston, TX
- James WR**, Santos RO, Rehage JS, Doerr J & Nelson JA. Consumer specific energetic landscapes derived from stable isotope analysis and habitat cover. LTER Network All Scientists' Meeting; Pacific Grove, CA
- James WR**, Litvin SY & Nelson JA. Measuring food web response to restoration in coastal ecosystems. State of the Coast; New Orleans, LA
- 2017**      **James WR** & Nelson JA. Food Web Response to Habitat Restoration in Various Coastal Wetland Ecosystems. American Geophysical Union; New Orleans, LA
- James WR**, Deegan L, Garritt R & Nelson JA. Residence time of water in estuary alters resource use on multiple trophic levels. Coastal and Estuarine Research Federation; Providence, RI
- 2016**      Adelson J, **James WR**, Chirayath V & Fringer O. A novel approach for estimating vertical profiles of suspended sediment concentration. Ocean Optics XXIII; Victoria, BC

#### **AWARDS AND HONORS**

- 2023**      Florida Coastal Everglades LTER Collaborator of the Year

- 2020** University of Louisiana Graduate School Research Showcase Paper Competition Winner  
University of Louisiana Graduate School ‘Say it in 6’ Winner
- 2018** Louisiana Sea Grant Discovery, Integration, Application (LaDIA) Graduate Research Scholar
- 2017** Louisiana Sea Grant Coastal Connections 3 Minute Thesis Competition Winner
- 2016** National Science Foundation Antarctic Service Medal

### **PROFESSIONAL AND COMMUNITY SERVICE**

- 2022-Present** **Committee member** – Florida Coastal Everglades LTER Internal Executive Committee
- 2022-Present** **Chair** – Florida Coastal Everglades LTER Justice, Equity, Diversity, and Inclusion (JEDI) committee
- 2022-Present** **Committee member** – Florida Coastal Everglades LTER representative for the LTER network Diversity, Equity, and Inclusion Committee
- 2015-Present** **Peer review for:** *Estuarine, Coastal and Shelf Science, Scientific Reports, Marine Biology, Ecological Engineering, Proceedings of the Royal Society B, Biology Letters, Marine Ecology Progress Series, Thalassas, Invertebrate Biology, Aquatic Biology, Journal of Marine Science and Engineering, Marine Biology Research, Estuaries and Coasts, Wetlands, Applications in Plant Science, Diversity, Plos One, Water, Frontiers*
- 2021-Present** **Peer reviewer**, British Ecological Society Review College
- 2022** **Judge**, Florida International University Biology Graduate Student Symposium
- 2021** **Guest Reviewer**, Biodiversity Across Ecosystems Collaborative Online International Learning Student Research Proposals
- Judge**, Florida International University Biology Graduate Student Symposium
- 2018-2019** **Off-campus representative**, Florida Coastal Everglades LTER Graduate Student Executive Board.
- 2017-2019** **Organizing Committee**, UL Lafayette Graduate Student Symposium
- 2018** **Workshop Organizer**, “Incorporating the spatial ecology of consumers into long-term research” at LTER Network All Scientists’ Meeting
- Reviewer**, Ecological Society of America Student Section Travel Award
- 2015** **Science Fair Judge**, Avondale Elementary School Science Fair
- Student mentor**, Avondale Elementary School Science Fair
- Participant**, UAB in Antarctica

### **PROFESSIONAL DEVELOPMENT**

- 2023** **Fieldwork Harassment Prevention and Intervention**, FieldFutures
- Identifying and Eliminating Micro-aggressions**, Florida International University
- Safe Zone Advocate Training**, Florida International University
- 2022** **Diversity Advocate in Hiring Workshop**, Florida International University
- Movement Ecology in R**, Physalia Courses
- 2021** **Advanced Ecological Niche Modeling Using R**, PR Statistics
- 2018** **Louisiana Sea Grant Coastal Immersion Program**, Louisiana Sea Grant

- 2017**      **Small Boat Operations for Marine Scientists**, Louisiana Universities Marine Consortium (LUMCON)  
              **Use of Stable Isotopes & Fatty Acids in Aquatic Ecology: Theory & Practice**,  
              Universidad de Antofagasta
- 2016**      **Advanced Computing for Earth Sciences**, University of Virginia

### **AFFILIATIONS**

*Florida Coastal Everglades Long Term Ecological Research Program* – Postdoc/Collaborator  
*FIU Institute of Environment CREST Center for Aquatic Chemistry and Environment* - Postdoc

### **SKILLS**

**Field:** Small boat operation; Acoustic telemetry- tagging, deploying, data download; Specimen collection- Seine, gillnet, longline, crab pots, trawl, drop samplers, hook and line

**Computer Software:** R, ArcGIS, QGIS, Python, MATLAB, ImageJ, Jwatcher