

## CURRICULUM VITAE (rev 05/26/2025)

Christopher Robert Malinowski, PhD  
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### PROFESSIONAL PREPARATION:

Ph.D. Biological Science, Florida State University, FL, 2019  
M.Sc. Biological Science, Florida Atlantic University, FL, 2011  
B.Sc. Biological Science (Major: Biology, Minor: Chemistry)  
University of Wisconsin-Stevens Point, Stevens Point, WI, 2006

### PROFESSIONAL APPOINTMENTS:

Jan, 2025-current **Graduate Faculty**, Florida International University, Miami, FL.  
*Primary duties and accomplishments:* Serve as thesis/dissertation major advisor, member on thesis or dissertation committee.

Sep, 2023-current **Research Assistant Professor**, Institute of Environment in the College of Arts, Sciences & Education (CASE), Florida International University, Miami, FL.  
*Primary duties and accomplishments:* Teach courses, co-advise graduate students, serve on center committees, serve on graduate student committees.

Nov, 2023-current **Affiliate Scientist**, Department of Biological Sciences, Florida Atlantic University, Boca Raton, FL.  
*Primary duties and accomplishments:* Teach courses, co-advise graduate students, serve on center committees, serve on graduate student committees.

March, 2022-current **Director of Research and Conservation**, Ocean First Institute, Key Largo, FL.  
*Primary duties and accomplishments:* Established and continue to develop our organization's Florida branch in Key Largo from ground up and have overseen the growth in Florida – I have facilitated an increase in our annual organizational budget from ~300K to over 750K. My responsibilities include developing strategic partnerships, securing funds through grant writing and donor development, overseeing both existing and new research programs, publishing in peer-reviewed journals, writing grant reports, and maintaining all state and federal research permits. I designed and maintain our Florida Keys research laboratory, continue to develop and maintain a specialized environmental studies analytical lab at Florida Atlantic University (FAU) equipped with FTIR and ICPMS technology for microplastic and heavy metal ecotoxicology research. I hire and supervise research staff while mentoring PhD, Master's, and high school thesis students at FAU and Florida International University (FIU). My field work includes operating and maintaining our research vessel, maintaining my USCG captain's license, developing and leading our Florida shark research program and summer courses, running our reef fish ecology research program, and leading a contracted project with South Florida Water Management District (SFWMD). I also help to manage our social media outreach initiatives to promote conservation awareness.

- Feb, 2021-Mar, 2022 **Senior Scientist**, South Florida Water Management District, Coastal Ecosystems Section, Applied Sciences Bureau, West Palm Beach, FL.  
*Primary duties and accomplishments:* Developed and maintained a research program related to the effects of controlled water delivery (quality, quantity, timing of delivery) in South Florida estuaries on fish physiological health and ecology. I collaborated with other staff scientists on data collection and analysis related to seagrass and oyster health.
- Mar, 2019-Feb, 2021 **Post-Doctoral Research Assistant**, Forestry and Natural Resources, Purdue University, IN  
*Primary duties and accomplishments:* Developed and published independent research focusing on fish community and population ecology, contaminant impacts (microplastics, mercury) on aquatic food webs, and fish gut microbiome associations with diet and stable isotopes. Designed and executed experiments investigating microplastic effects on simple food webs, while also conducting large-scale mesocosm studies examining how aquatic environments influence fish diet, trophic ecology, growth, morphology, and gut microbiome composition. Synthesized and statistically analyzed complex ecological datasets, mentored undergraduate researchers through independent projects, and taught a fish and invertebrate field ecology course. This work contributed to our understanding of anthropogenic impacts on aquatic ecosystems and trophic relationships.
- Sep, 2013-Aug, 2017 **Research Assistant**, Florida State University Coastal and Marine Laboratory, FL  
*Primary duties and accomplishments:* While completing my PhD, I additionally worked to design, plan, implement, and oversee fieldwork related to deep sea and coastal reef fish ecology sampling and monitoring studies; collected samples and analyzed data; wrote technical reports, and managed multiple databases. I provided technical guidance to field station personnel regarding sampling techniques for environmental contaminants, diet, stable isotopes, and nutrients in water samples. I investigated the impacts of various contaminants on fish from a variety of coastal and offshore environments.
- Jul, 2012-Aug, 2013 **Fish Ecology Research Associate and Database Manager**, Deep-C Research Consortium, Florida State University, Coastal and Marine Laboratory, FL  
*Primary duties and accomplishments:* In response to the 2010 Deepwater Horizon oil spill in the Gulf of Mexico, I participated in multi-week offshore research cruises to collect samples and data for a multi-institutional and interdisciplinary consortium related to community ecology and various oil-related contaminants; organized and managed a relational database for all collected deep sea organisms (elasmobranchs, teleosts, invertebrates) and analytical data.
- Jan, 2012-Jul, 2012 **Research Associate**, Fauna Concentration Project in the Florida Everglades, Florida Atlantic University, FL  
*Primary duties and accomplishments:* Executed comprehensive seasonal field research in the Florida Everglades in the laboratory of Dr. Dale Gawlik, collecting aquatic wetland species that comprise wading bird diets and gathering environmental data for a long-term ecological study examining predator-prey relationships related to wading bird density. Performed detailed taxonomic identification, preservation, and cataloging of all specimens. Accessed remote sampling locations via helicopter and airboat, conducting collection by wading through swamps and utilizing throw trap methodology. This work contributed valuable data to ongoing ecosystem monitoring efforts and enhanced understanding of factors influencing wading bird population dynamics.
- Jun, 2011- May, 2012 **Adjunct Faculty**, Florida Atlantic University, FL  
*Primary duties and accomplishments:* Taught undergraduate lab course in Anatomy and Physiology.

Jan, 2007- Aug, 2008 **Research Assistant**, Fish Ecology Lab, School of Freshwater Sciences, University of Wisconsin-Milwaukee, WI  
*Primary duties and accomplishments:* Conducted extensive field research in Lake Michigan in the laboratory of Dr. John Janssen, participating in both coastal and offshore studies investigating fish population and community dynamics, with emphasis on native and invasive species interactions. Research activities included SCUBA, ROV, and gill net surveys to assess fish populations, comprehensive fish stomach dissections for prey taxonomic identification and quantification, and collection of environmental data using oceanographic CTDs. Accumulated over 100 of days of field experience and research vessel handling on Lake Michigan, including overnight offshore research cruises focused on studying spawning and larval recruitment of extirpated Lake Trout, employing bottom trawlers, ROVs, and egg traps as primary sampling methods. Contributed to all phases of research from fieldwork planning and execution to sample processing and data analysis.

## PUBLICATIONS:

- Locascio, J.V., C.C. Koenig & **C.R. Malinowski** (2023). Absolute abundance estimates of Atlantic Goliath Grouper (*Epinephelus itajara*) on spawning aggregation sites. *Fishes*, 8(8), 394; <https://doi.org/10.3390/fishes8080394>.
- Ellis, R.D, C.C. Koenig, J.V. Locascio, **C.R. Malinowski**, & F.C. Coleman (2023). Spawning migrations of the Atlantic Goliath Grouper along the Florida Atlantic coast. *Fishes*, 8(8), 398; <https://doi.org/10.3390/fishes8080398>.
- Coleman, F.C., J.A. Nunes, A.A. Bertoncini, L.S. Bueno, M.O. Freitas, M. Borgonha, J.R. Leite, M.J. Lima-Júnior, B. Ferreira, B. Bentes, C.C. Koenig, **C.R. Malinowski**, E.G. Sanches, M. Hostim-Silva, C.L. Sampaio. (2023). Controversial opening of a limited fishery for Atlantic Goliath Grouper in the United States: implications for population recovery. *Marine Policy* 155:105752.
- Condini, M.V., **C.R. Malinowski**, D.J. Hoeinghaus, B.L. Harried, A.P. Roberts, B.K. Soulen, K.J. Roark et al. (2023). Spatial analysis of mercury and stable isotopes in the vulnerable Dusky Grouper *Epinephelus marginatus* along the Brazilian coast. *Marine Pollution Bulletin* 187: 114526.
- Murie, D.J., D.C. Parkyn, C.C. Koenig, F.C. Coleman, **C.R. Malinowski**, J.A. Cusick, R.D. Ellis. (2023). Age, growth, and functional gonochorism with a twist of diandric protogyny in Goliath Grouper from the Atlantic coast of Florida. *Fishes*, 8(8), 412.
- Malinowski, C.R.**, A. Schaber, C. Searle, and T. Höök. (2023). Microplastics impact simple aquatic food web dynamics through reduced zooplankton feeding and potentially releasing algae from consumer control. *Science of the Total Environment*, 166691.
- Perrault, J.P., S.E. Hirsch, **C.R. Malinowski**, I. Lackner, J.P. Buchweitz, S. Reboloso, A.F. Lehner (*in revision*). Are fresh eggs needed for trace element monitoring in sea turtles? *Environmental Toxicology & Chemistry*.
- Malinowski, C.R.**, J.C. Doll and T.O. Höök (2022). Nearshore fish assemblage dynamics in southern Lake Michigan: 1984–2016, *Journal of Great Lakes Research*, <https://doi.org/10.1016/j.jglr.2022.04.018>.
- Stevens, P. W., Paperno, R., Beal, J. L., MacDonald, T. C., Miller, H. N., Klarmann, P. A., & **Malinowski, C. R.** (2022). Identification of fish habitat hotspots for use in prioritizing conservation and restoration projects in coastal rivers. *Environmental Biology of Fishes*, 1-15.
- Malinowski, C.R.**, F.C. Coleman, C.C. Koenig (2021). Four reasons that Goliath Grouper fishery should remain closed. Letter to FWC Commissioners. Published on website: <https://www.chrismalinowski.org/goliath-grouper-conservation>.
- Liu, Z., **Malinowski, C. R.**, & Sepúlveda, M. S. (2021). Emerging trends in nanoparticle toxicity and the significance of using *Daphnia* as a model organism. *Chemosphere*, 132941.
- Perrault, J. R., Barron, H. W., **Malinowski, C. R.**, Milton, S. L., & Manire, C. A. (2021). Use of intravenous lipid emulsion therapy as a novel treatment for brevetoxicosis in sea turtles. *Scientific reports*, 11(1), 1-12.
- Malinowski, C.R.**, N.I. Stacy, F.C. Coleman, J.A. Cusick, C.M. Dugan, C.C. Koenig, N.K. Ragbeer, and J.R. Perrault (2021). Mercury offloading in gametes and potential adverse effects of high mercury concentrations

in blood and tissues of Atlantic Goliath Grouper *Epinephelus itajara* in the southeastern United States. *Science of the Total Environment*, 146437.

**Malinowski, C.R.**, J.R. Perrault, F.C. Coleman, C. Cray, C.C. Koenig, J.M. Stilwell, N.I. Stacy (2020). The iconic Atlantic Goliath Grouper (*Epinephelus itajara*): A comprehensive assessment of health indices in the southeastern United States population. *Frontiers in Veterinary Science*, 7, 635.

Koenig, C.C., F.C. Coleman, and **C.R. Malinowski** (2020). Atlantic Goliath Grouper of Florida: To Fish or Not to Fish. *Fisheries* 45(1):20-32. *Feature article for January issue.*

**Malinowski, C.R.** (2019) High mercury concentrations in Atlantic Goliath Grouper: spatial analysis of a vulnerable species. *Marine Pollution Bulletin* 143: 81-91.

**Malinowski, C.R.**, J. Cavin, J. Chanton, L. Chasar, F.C. Coleman, C. Koenig (2019). Trophic relationships and niche partitioning of Red Drum *Sciaenops ocellatus* and Common Snook *Centropomus undecimalis* in coastal estuaries of South Florida. *Estuaries and Coasts* 42(3): 842-856.

**Malinowski, C.R.**, F.C. Coleman, C.C. Koenig, J. Locascio, D. Murie (2019). Are Atlantic goliath grouper, *Epinephelus itajara*, establishing more northerly spawning sites? Evidence from the northeast Gulf of Mexico. *Bulletin of Marine Science* 95(3): 371-391. *Feature article for July issue.*

**Malinowski, C.R.** (2017). From field notes to field guide: a descriptive and picturesque look into the marine fishes of Florida. Review of “Marine Fishes of Florida”, by D. Snyder and G. Burgess. *Environmental Biology of Fish*: 889-891.

Koenig, C.C., F.C. Coleman, **C.R. Malinowski**, et al. (2017). Diel, lunar, and seasonal spawning patterns of the Atlantic goliath grouper, *Epinephelus itajara*, off Florida, United States. *Bulletin of Marine Science* 93(2):39-406.

Levine, E.A., J.S. Gosnell, E.M. Goetz, **C.R. Malinowski** (2016). Natural cultch type influences habitat preference and predation, but not survival, in reef-associated species. *Restoration Ecology* 25(1): 101-111.

**Malinowski, C.R.**, Herzing, D.L. (2015). Differences in prey and nutrient use between reproductive states and age classes in Atlantic spotted dolphins (*Stenella frontalis*). *Marine Mammal Science* 31(4): 1471-1493.

## AWARDS, RECOGNITION, & FUNDING:

- Ocean Reef Community Foundation Grant (\$10,000) – PI, awarded for Ocean First Institute (OFI) expansion of marine science education program – **2025**
- Marcus Foundation grant with A.D. FAU Henderson (\$343,000) – Co-PI, awarded for OFI ICP-MS and heavy metal and trace elemental analytical lab development – **2025**
- PST Holdings donor fundraising (\$300,000/3 yrs) – PI, awarded for OFI marine conservation science research and education programming – **2024, 2025, 2026**
- Penman’s donor advised grant (\$5,000) – PI, awarded for OFI marine science and education programming – **2024**
- Brightmark donor fundraising (\$20,000) – PI, awarded for OFI marine plastic pollution research and education – **2024**
- Horizon Foundation (\$2500) – PI, awarded for OFI “spinning fish” research on elasmobranch health – **2024**
- Brightmark donor fundraising (\$5,000) – PI, awarded for OFI marine plastic pollution research and education – **2023**
- International Seakeepers in-kind donation (\$10,000) – PI, awarded for OFI Goliath Grouper survey research – **2023**
- PST Holdings donor fundraising (\$10,000) – PI, awarded for OFI marine science research initiatives – **2023**
- Batchelor Foundation grant with A.D. FAU Henderson (\$145,000) – Co-PI, awarded for OFI FT-IR (Fourier-transform infrared spectroscopy) microscopy and imaging system for microplastic research and education – **2023**
- Guy Harvey Ocean Foundation (\$30,000/3 yrs) – PI, awarded for OFI Goliath Grouper monitoring project – **2023, 2024, 2025**
- The Curtis & Edith Munson Foundation (\$30,000/2 years) – PI, awarded for OFI Goliath Grouper monitoring project – **2023, 2024**

- Ocean Conservancy grant **(\$20,000)** – PI, awarded for OFI microplastic monitoring project – **2023**
- PST Holdings donor fundraising **(\$5,000)** – PI, awarded for OFI marine science research initiatives – **2022**
- South Florida Water Management District **(\$85,000/2 yrs)** – PI, OFI funded government contract for fish health related to water flow and management in St Lucie Estuary/Southern Indian River Lagoon, FL – **2022-2024**
- Global Photo Associates (GPS USA) **(\$5,000)** – PhD scholarship from Japanese Television Production Company for assisting in Goliath Grouper production – **2017**
- PADI Foundation Grant **(\$5475)** – PhD research grant – **2017**
- Florida State University (FSU) Congress of Graduate Students (COGS) Travel Grant **(\$200)** – **2017**
- FSU Biological Science Travel Award **(\$580)** – **2017**
- FSUCML Graduate Student Scholarship Award **(\$1000)** – **2017**
- Florida State University’s William R. Mote Paid Summer Research Assistantship – **2016, 2017**
- Gramling Marine Biology Award for PhD thesis research **(\$4000)** – **2016**
- FSUCML Graduate Student Scholarship Award **(\$1000)** – **2016**
- Robert B. Short Zoology Scholarship for PhD thesis research **(\$1000)** – **2015**
- Guy Harvey Scholarship for PhD thesis research **(\$5000)** – **2015**
- FSUCML Graduate Student Scholarship Award **(\$1000)** – **2015**
- FSUCML Graduate Student Scholarship Award **(\$1000)** – **2014**
- FAU Private Donor Marsh Scholarship for Master’s thesis research **(\$500)** – **2011**
- Society for Marine Mammalogy Student Travel Grant **(\$500)** – **2011**
- Florida Atlantic University Graduate Student Association Travel Grant Award **(\$600)** – **2011**
- Charles E. Schmidt College of Science Travel Grant Award **(\$600)** – **2011**
- Florida Atlantic University Graduate Student Association Travel Grant Award **(\$500)** – **2010**

#### INTERVIEWS, NEWSPAPER, BLOGS, AND DOCUMENTARIES:

- **Feature research documentary on Atlantic Goliath Grouper research and controversy (2024)**
  - **Disappearing Giants: What Happened to Florida’s Goliath Groupers?**
- **Featured interview in National Geographic Magazine (2024)**
  - **“Fish along the Florida Keys are spinning in circles until they die—and no one knows why”**
- **Tom Rowland Podcast interview (2024)**
  - **Discussed spinning fish issue in the Florida Keys and other environmental and human impact talking points (Episode 875)**
- **Featured research documentary on white sharks in South Africa (2023)**
  - **“Where have all the Great Whites gone? (A South African Shark Expedition)”**
  - **<https://youtu.be/l2hZL0GQ9N0>**
- **Featured interview in Science Magazine (2021)**
  - **<https://www.science.org/content/article/overruling-scientists-florida-commission-authorizes-fishing-vulnerable-goliath-grouper>**
- **Featured interview in National Geographic Magazine (2021)**
  - ***Goliath grouper fishing may be allowed in Florida again after 30-year ban***
- **Featured research on National Geographic Channel (2016)**
  - ***Monster Fish* [Television series], *Shark Eating Goliath* (Season 6, episode 4, Jan 22, 2016). Documentary about research by myself and colleagues with the Atlantic Goliath Grouper.**
- **Featured research on Amazon Prime (2020)**
  - ***Goliaths in the Stream*. Documentary about the conservation ecology work by myself and colleagues with the Atlantic Goliath Grouper.**
- Online blog post (September 28, **2018**) for American Fisheries Society FL Student Chapter
  - ***Misperceptions of a giant: impact of the recovering Goliath Grouper on Florida reefs***
- Featured research documentary on Global Photo Associates (GPA USA) (**2017**)

- Japanese television program documentary on Goliath Grouper (in Japanese) (air date: Nov.22, 2017)
- Featured research in popular journal: Malinowski, C R. "High on Mercury." *Underwater Journal*, 12 June **2017**.
  - [article link here](#)
- Featured research documentary on Tokyo Broadcasting systems (**2016**)
  - Japanese television program "Amazing Animals: Doubustu Kisoutengai (in Japanese) (air date: September 21, 2016)
- Online blog post (June 6, **2016**) for The FSU Coastal & Marine Laboratory
  - *Goliath Grouper in nearshore mangrove estuaries: researching effects and patterns of mercury toxicity*
- Featured newspaper article
  - Byrne, E. (**2015**, Dec. 17). Brillion native studying mercury in fish. *The Brillion News*, pp.1-2.
- Online blog post (Jan. 12, **2015**) for Teens4Oceans (non-profit organization)
  - *Mercury Contamination in Atlantic Goliath Grouper-Part 1: Are High Levels Dampening Recovery Potential?*
- Interactive online live chat through Explore.org and Teens4Oceans
  - Published Feb.4, **2015**: <https://www.youtube.com/watch?v=aZ4YbpC4D8M>

## SYNERGISTIC ACTIVITIES:

2021-present	Member of SSC Grouper and Wrasse Specialist Group, International Union for the Conservation of Nature (IUCN). Responsible for assessing the status of species in this group, and for reassessing the red list status of the vulnerable Atlantic Goliath Grouper <i>Epinephelus itajara</i> .
2018–2019	Committee Member, Biological Sciences Diversity Committee, Florida State University. Developed and organized a diversity committee that has led to better departmental messaging of inclusion and has led to more rigorous training.
2016–2018	Florida State University Diving Control Board, Graduate Student Representative. Continued development of our research diving program.
2015–2016	Treasurer, Ecology and Evolution Research Discussion Grouper (EERDG), Florida State University graduate student organization
2006	President-Tri-Beta Biological Honors Society, University of Wisconsin-Stevens Point, WI

## PRESENTATIONS:

### Conference and Scientific Meeting Presentations

- Malinowski, C.R. "Atlantic Goliath Grouper recover, controversy, and policy: lessons learned and where to go from here?". Florida Marine Science Educators Association (FMSEA), April 2024
- Malinowski, C.R., Jason Doll, Tomas Höök. "Nearshore fish assemblage dynamics in southern Lake Michigan: 1984-2016". American Society of Ichthyologists and Herpetologists joint meeting JMIH/AES, July 2021
- Malinowski, C.R., Coleman, F., Koenig, C. "High mercury levels and associated consequences in a critically endangered species being reconsidered for a U.S. fishery," International Marine Conservation Congress (IMCC5), Florida State University, June 2018
- Malinowski, C.R., Coleman, F., Koenig, C. "High mercury levels in the Atlantic Goliath Grouper *Epinephelus itajara*: a critically endangered species being reconsidered for a fishery in the southeastern US," The Florida Chapter of the American Fisheries Society, Florida State University, April 2018 (*Honorable Mention Student Paper Award*)

- Malinowski, C.R., Coleman, F., Koenig, C. "Mercury in Atlantic Goliath Grouper (*Epinephelus itajara*): sources, bioaccumulation patterns, and potential impacts to population recovery," American Fisheries Society (AFS), Florida State University, August 2017
- Malinowski, C.R., Coleman, F., Koenig, C. "Mercury in Atlantic Goliath Grouper (*Epinephelus itajara*): sources, bioaccumulation patterns, and potential impacts to population recovery," American Society of Ichthyologists and Herpetologists joint meeting JMIH/AES, July 2017
- Malinowski, C.R., Coleman, F., Koenig, C. "Mercury in Atlantic Goliath Grouper (*Epinephelus itajara*): sources, bioaccumulation patterns, and potential impacts to population recovery," Ecology and Evolutionary Ethology of Fishes (EEEEF), June 2016
- Malinowski, C.R., Coleman, F., Koenig, C. "Mercury contamination in Atlantic Goliath Grouper: are high levels dampening recovery potential?," SouthEast Data, Assessment, and Review (SEDAR) 47 Review Workshop, May 2016
- Malinowski, C.R., Herzing, D.L. "Nutrition and habitat driven foraging of wild dolphins in the Bahamas: a recipe for prey use," Conference on the Biology of Marine Mammals, 19th Biennial, November 2011
- Malinowski, C.R., Herzing, D.L. "Nutrition and habitat-based diet of wild dolphins in the Bahamas as a model for understanding prey selection," Society for Integrative and Comparative Biology (SICB), January 2011

#### **Policy and Management Presentations**

- Public Comment Presentations, Florida Fish and Wildlife Conservation Commission Meetings: April 2018, March 2022, March 2023
  - Presented best available science on Goliath Grouper (*Epinephelus itajara*) relevant to fishery management decisions
  - Presentation contributed to temporary decision not to pursue a limited harvest

#### **Public and Community Engagement**

- "Conservation Issues Affecting Local Ecosystems through the Lens of Sharks and Groupers," Delicate Balance of Nature Lecture Series, John Pennekamp Coral Reef State Park, Key Largo, FL, March 2024
- "Sharks and Groupers of Florida," History of Diving Museum, Islamorada, FL, March 2023
- "Protecting Goliath Grouper," DCP Deep Dive Webinar Series, Dolphin Communication Project, September 2021
- "Goliath Grouper Biology and Conservation," Pura Vida Divers, Live Presentation and SCUBA Dive Excursion on Spawning Aggregations, September 2021
- "Seeking the scientific truth about Goliath Groupers," Force-E Scuba Centers-invited speaker, August 2017
- "Understanding Goliath Grouper: the underlying biology, human impacts, and misconceptions about the largest grouper in the Western Atlantic," Florida State University Coastal and Marine Laboratory, Conservation Lecture Series, June 2017
- "Ocean Science Presentation," Inspire Early Childhood Preschool (5-yr-olds), 2021

#### **Academic Seminars and Guest Lectures**

- "Atlantic Goliath Grouper biology and controversy," Scripps Institution of Oceanography, UCSD Marine Biology Seminar Series, La Jolla, CA, February 2025

- "Atlantic Goliath Grouper recovery, controversy, and policy: where to go from here?," Department of Earth and Environment, Florida International University, Miami, FL, February 2024
- "Fish ecology research," Aquatic Seminar Series, Purdue University, 2019
- "Dissertation research and future directions," Purdue University, 2019
- "Fish ecology research," Undergraduate Marine Biology Class–Guest Lecture, Purdue University, 2021
- "Fish ecology research," Undergraduate Marine Biology Class–Guest Lecture, Purdue University, 2019
- "Human impacts on coastal environments," Undergraduate Ecology Class-Guest Lecture, Florida State University, 2016, 2017
- "Nutrition and habitat-based diet of wild dolphins in the Bahamas as a model for understanding prey selection: preliminary results," Mystic Aquarium Seminar Series-invited speaker, Florida Atlantic University, October 2010

### TEACHING EXPERIENCE:

2023-current	Ocean First Institute <u>Instructor</u> Developed and annually teach multiple week-long advanced summer field course in shark biology and field methods
2019	Purdue University <u>Co-Instructor</u> Summer Field Practicum (FNR 37100) Emphasis: ecology of freshwater fishes
2018	Florida State University <u>Teaching Assistant</u> Animal Diversity, Lab (ZOO 3141L) (3 credits)
2018, 2019	Florida State University <u>Teaching Assistant</u> Introduction to Environmental Science, Lecture and Laboratory (EVR1001) (3 credits)
2016, 2017	Florida State University <u>Teaching Assistant</u> Environmental and Ecological Physiology (BSC 3402L) (3 credits)
2015, 2017	Florida State University <u>Teaching Assistant</u> General Ecology Lecture (PCB3043-0002) (3 credits)
2012	Florida Atlantic University <u>Adjunct Instructor</u> Anatomy and Physiology 1 Lab (BSC 2085) (1 credit) Anatomy and Physiology 2 Lab (BSC 2086) (1 credit)
2010	Florida Atlantic University <u>Teaching Assistant</u> Comparative Vertebrate Morphogenesis (ZOO 4690L) (1 credit) Anatomy and Physiology 1 Lab (BSC 2085) (1 credit)
2008-2011	Florida Atlantic University

Teaching Assistant

Anatomy and Physiology 1 Lab (BSC 2085) (1 credit)

Anatomy and Physiology 2 Lab (BSC 2086) (1 credit)

2009-2013 Boca Raton, FL

Private Tutor. Tutored and taught accredited private courses at college, high school, and grade school levels, including: Comparative Vertebrate Morphology, Physics, AP Chemistry, AP Biology, AP Environmental Science, Geometry, Algebra, and various other subjects.

**TECHNICAL SKILLS:**

- U.S. Coast Guard Licensed Boat Captain (OUPV/Six-Pack Captain's License)
  - Experienced small boat (< 25-ton) captain
    - Inland lakes, Great Lakes, Gulf of Mexico, and the Atlantic
    - From nearshore environments (*e.g.*, mangroves) to >95 km offshore
    - Vessels have ranged in size from 16' Carolina Skiff to 26' Calcutta catamaran
- AAUS Scientific Diver certified, including rescue diver and nitrox (over 800 dives logged, both AAUS and non-AAUS)
  - I have been diving for ~20 yrs and have logged dives around the world, from frigid waters of the Great Lakes to murky waters of the northern Gulf of Mexico, and to clear and warm waters of South Atlantic and off Southeast Asia and Australia
  - I often dive to depths of 100-120', often with strong currents and other hazards
- CPR, First Aid Certified, AED, and Oxygen Administration trained and certified
- Tekran 2700 Mercury (Hg) Analysis System—to measure methyl- and inorganic mercury concentrations in tissues and materials
- Multi-collector ICP-MS (ThermoFinnigan Neptune) using a cold vapor generator (CETAC HGX-200) as an introduction system—for measuring Hg isotopes. Also ICP-MS (Agilent) for measuring all heavy metals and trace elements.
- R statistical software, ArcGIS, Adobe Photoshop, Adobe Illustrator, and Microsoft Access
- Certified remotely operated vehicle (ROV) operator for FSUCML's Seamor 300T ROV
- Brazilian Jiu-Jitsu (BJJ) and Muay Thai martial arts

**SEA EXPERIENCE:** (> 1000 days at sea)

- Nearshore and offshore, day trips and offshore trips lasting weeks, small vessels to >100' research vessels

**MENTORING AND SUPERVISION:**

- |   |              |
|---|--------------|
| • FAU Henderson high school & middle school students                              | 2023-current |
| ▪ 2 students (DIS credit)   |              |
| • Undergraduate & graduate student research mentor, FSU & Purdue University       | 2015-2020    |
| ▪ Mentored >10 undergraduate students   |              |
| • Graduate thesis advisor, FAU  | 2024-current |
| ▪ Currently advising 2 MSc. Thesis students                                       |              |
| • Graduate thesis advisor, FIU  | 2024-current |
| ▪ Currently advising 1 PhD thesis student   |              |
| • Graduate advisor, UM  | 2024-current |
| ▪ Currently advising 1 MPS graduate student                                       |              |
| • Graduate Committee member, 2 students (FIU, JU)                                 | 2012-current |
| • Oversight of technicians & staff on field and laboratory research projects, FSU | 2015-2020    |

- Graduate Teaching Assistant mentor, FAU 2011, 2012

**OUTREACH:**

- Workshop and internship coordinator/instructor, Coral Shores High School outreach program 2023-current
  - Key Largo, FL
- Instructor, Saturday-at-the-Sea outreach program and summer camps, FSU 2014-2019
- Host, Florida State University Coastal & Marine Lab Biennial Open House, St. Teresa, FL 2013, 2015, 2017
- Judge, First Annual Deep-C Consortia ROV Competition, Tallahassee, FL 2013
- Judge, Sturgeon Bowl Science Competition, Great Lakes WATER Institute, Milwaukee, WI 2007, 2008
- Instructor, Marine Biology Summer Camp, Discover World Museum, Milwaukee, WI 2008