

Amanda M. Sheehy

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Education

Master of Fisheries and Aquatic Sciences (MFAS) | 2022 | University of Florida

- Technical Project: “Piscine Francisellosis in Florida Largemouth Bass (*Micropterus salmoides*)
- Advisor: Ruth Francis-Floyd
- Related coursework: Introduction to Applied Statistics, Applied Aquaculture Genetics, Fish & Water Quality, Marine Protected Areas, Fisheries Enhancement, Invasion Ecology, Aquaculture II, Fish & Aquatic Invertebrate Histology, Biology of Fishery & Aquaculture Invertebrates, Marine Ecological Processes, Communicating Natural Resource Science with the Public, Fish Population Dynamics, GIS Analysis

Graduate Certificate | 2022 | University of Florida

- Major: Quantitative Fisheries Science
- Related coursework: Fisheries Management, Fish Population Dynamics, GIS Analysis

Graduate Certificate | 2016 | University of Florida

- Major: Aquaculture and Fish Health
- Related coursework: Diseases of Warmwater Fish, Introduction to Aquaculture, Fish and Crustacean Nutrition, Aquatic Invertebrate Ecology & Physiology, Aquatic Wildlife Health Issues

Bachelor of Science | 2011 | University of North Alabama

- Major: Professional Biology
- Minor: Chemistry
- Summa Cum Laude
- Honors Thesis Project: “Monitoring Freshwater Snail Populations with Digital Photography”

Relevant Work Experience

Program Assistant | September 2017-Present | University of Florida, College of Veterinary Medicine, Aquatic Animal Health Program | Full-time (40 hours per week)

- Maintain NMFS marine mammal and USFWS manatee research permits
- Manage finances of a \$2.5 million-dollar grant
- Prepare annual and quarterly permit and grant reports
- Plan annual Manatee Research Symposium attended by 100-300 people
- Prepare syllabi, assignments, and schedules for 4 courses
- Provide i-STAT analysis and biological sampling support during manatee health assessments
- Manage approximately 50 veterinary students enrolled in Aquatic Animal Medicine Certificate program
- Provide teaching assistant and Canvas support for 3 online courses annually
- Plan aquatic animal health seminars, school visits, and public outreach events

Aquarist | October 2016-Present | Aquamoon, LLC & Marine Aquatic Services and Technology, LLC | Part-time (13 hours per week)

- Manage 12,000-gallon freshwater exhibit of approximately 50 native Florida fishes from 8 species
- Maintain recirculating life support system consisting of carbon and sand filtration and UV sterilization
- Collect and analyze weekly water quality data
- Conduct basic medical and water quality treatments, biopsies, quarantine, and necropsy as needed
- Prepare and feed diets, including target training
- Provide exhibit cleaning and maintenance through weekly 1-2-hour SCUBA dives

Biological Scientist | October 2014-September 2017 | University of Florida, College of Medicine, Department of Pharmacology and Therapeutics | Full-time (40 hours per week)

- Managed 3 transgenic mouse colonies with 50-100 total cages
- Served as study coordinator on IACUC protocols and monitored compliance
- Supervised and taught laboratory techniques to undergraduate students
- Maintained cell lines and bacterial cultures
- Provided laboratory analyses and services that utilized the following techniques: genotyping, PCR, q-PCR, DNA and RNA extraction, calcium efflux assays, gel electrophoresis, PCR primer design, plasmid design, transformation, transfection, microscopy, tissue harvesting and fixation

Supervisor | October 2013-October 2014 | Chase Animal Hospital | Part-time (25 hours per week)

- Supervised animal care team comprised of 5-7 members
- Provided training for new employees
- Oversaw daily animal care for 25-50 domestic species
- Administered medications and assisted veterinary staff with treatments and basic medical procedures

Wildlife Clinic Assistant | August 2011-April 2012 | Tufts University, Cummings School of Veterinary Medicine | Part-time (10 hours per week)

- Provided daily care and prepared diets for 10-15 wildlife patients
- Administered medications and assessed condition and recovery
- Recorded medical data in veterinary charts and presented patients at hospital rounds
- Educated public on injured wildlife

Research Experience

University of Florida, School of Forest, Fisheries, and Geomatics Sciences | 2019-2022 | Ruth Francis-Floyd, Roy Yanong, and Esteban Soto

Documented the emergence of *Francisella orientalis* within Florida largemouth bass (*Micropterus salmoides*) from a public display system, which is the first reporting of francisellosis in this species. Monitored fish health, performed necropsies, collected tissue samples, and was the primary author for a manuscript that is currently being prepared for submission to the *Journal of Aquatic Animal Health*.

University of North Alabama, Department of Biology | 2010-2011 | Terry Richardson

Researched the accuracy of using underwater digital photography to monitor the abundance of *Leptoxis praerosa*, a freshwater snail species. Differences in *L. praerosa* abundance among various microhabitats were also studied along with differences in size frequency distributions. Gathered specimens and data in the field, obtained laboratory measurement data, and performed statistical analysis of data.

Leadership and Community Service

Seasonal Volunteer | 2018-Present | Florida Horseshoe Crab Watch, UF/IFAS Extension and Nature Coast Biological Station

- Conduct beach survey counts of nesting horseshoe crabs
- Collect data including sex, morphometrics, and body condition
- Place USFWS tags on crabs and collect re-sighting data

Dive Club Leader | 2016-2017 | Scuba Monkey Dive Center

- Organized and planned regular dive meetings and events for 20-30 members
- Promoted continued diver education and diving safety
- Created and maintained a network of local divers

Wildlife Department Volunteer | 2012-2013 | Ecotarium

- Provided daily care and prepared diets for 15-20 wild and exotic mammal, avian, and reptilian species
- Educated public on wildlife species with interactive live animal presentations

President | 2010-2011 | University of North Alabama, Beta Zeta Chapter of Beta Beta Beta National Biological Honor Society

- Presided over monthly chapter meetings of 30-50 members
- Inducted new members and planned fundraisers

Computer Program Experience

- **R and RStudio**
- **ArcGIS**
- **OERCA Animal Welfare App**
- **Microsoft Office**

Certifications

Basic Life Support and CPR | 2021 | American Academy of CPR & First Aid, Inc.

Emergency Oxygen Provider | 2016 | PADI

Enriched Air Diver (Nitrox) | 2016 | PADI

Adventure Diver | 2014 | PADI

Open Water Diver | 2014 | PADI

Honors and Awards

Service Reward Recipient: 5 Years | 2019 | University of Florida

Recognition for five years of employment service to the University of Florida

Dean's Award for the College of Arts and Sciences | 2011 | University of North Alabama

Annual award presented to the most outstanding graduating senior in the College of Arts and Sciences as selected by the Dean

Distinguished Academic Achievement Award | 2011 | University of North Alabama

Annual award presented to the graduating senior with the highest GPA

Academic Award in Professional Biology | 2011 | University of North Alabama

Annual award presented to the graduating senior majoring in Professional Biology with the highest GPA

1st Place Frank G. Brooks Award | 2011 | Beta Beta Beta National Biological Honor Society – District II

Award for excellence in undergraduate research presented in an oral session at the district meeting

Dean's List | 2007-2011 | University of North Alabama

Recognition on the Dean's list of the College of Arts and Sciences for every semester of enrollment