

Brittany Barbeau

Gainesville, FL

brittany.barbeau@ufl.edu

Education

McGill University, Montréal, QC

2009-2014

Bachelor of Science, Biology

Minor in Kinesiology

University of Florida, College of Public Health and Health Professions

August 2023-Present

Masters in Public Health, Public Health Practice Concentration

Work Experience

University of Florida College of Veterinary Medicine

December 2021-Present

Aquatic Animal Health (AAH) Program

Biological Scientist II

- Develops clinical and experimental protocols in coordination with students and faculty that help to address scientific questions or problems related to the marine mammal/ aquatic animal health program personnel and goals.
- Provides training to program residents, interns, students, and OPS technicians through the development and implementation of workshops, wet labs, teaching materials, and classroom and laboratory instructional activities.
- Provide clinical, field, and laboratory support for the program clinical pathologist and program clinical coordinator.
- Supports program efforts for network education through seminar series and the yearly Manatee Research Symposium.
- Oversees the AAH volunteer program which supports program activities and goals.
- Acts as the program archive manager, overseeing inventory and development of the UF AAH database.
- Acts as the program laboratory manager including but not limited to coordinating safe laboratory practices for the program, maintaining and updating lab standard operating procedures (SOPs), overseeing proper disposal of hazardous materials, overseeing lab supply purchasing and payment of invoices, and calibrating and maintaining program equipment.
- Maintain a support role for the University of Florida's Marine Animal Rescue Program including but not limited to aiding in live animal response, necropsy, report editing, and maintenance of medical equipment.
- Oversees sample collection, handling, and processing at network live animal events.
- Represents the AAH Program on the Manatee Rescue and Rehabilitation Partnership education working group (2023-Present).
- Aid with maintaining required state and federal reports for clinical and research permits, inventory of regulated samples, and IACUC compliance.
- Aquatic Animal Health Program liaison for the Research Professionals Association (2021-Present).
- Holds the position of co-chair for the Manatee Rescue and Rehabilitation Partnership Education Working Group (2023-Present).
- AAH Program social media manager (2021-2023).

Brittany Barbeau

Gainesville, FL

brittany.barbeau@ufl.edu

Florida Fish and Wildlife Conservation Commission

Marine Mammal Pathobiology Laboratory (MMPL)

OPS Biological Scientist II

July 2019-November 2021

- Coordinated recovery, necropsy, and disposal of marine mammal carcasses for Northwest Florida (2016-2021).
- Conducted marine mammal rescue, capture, and transport operations of Northwest Florida (2016-2021).
- Oversaw the FWC Marine Mammal Section million-dollar NFWF award administration including writing quarterly and annual grant reports, quarterly budget requests, and purchasing of grant funded equipment.
- Responsible for editing statewide manatee rescue and mortality reports.
- Managed statewide necropsy samples, including but not limited to the tracking, inventory, and processing of samples.
- Aided management of the MMPL cetacean stranding data, management of the marine mammal section cetacean database, management of the NOAA stranding database and completion of routine uploads to the NOAA-NMFS data diplomat, filing cetacean data requests, managing samples collected from stranded cetaceans, and managing histological samples collected from marine mammals processed by the MMPL.
- Participated in priority program monitoring efforts, including genetic field sampling and photo-identification (2016-2021).
- Managed the manatee earbone aging specimens for the FWRI Marine Mammal Section (2019-2021).
- Acted as the FWC Marine Mammal liaison for the FWC Volunteer Standing Committee, providing insight into the marine mammal volunteer/intern program (2016-2021).
- Provided support for network Sarasota Dolphin Health Assessments and U.S. Geological Survey Manatee Health assessments (2016-2021).

OPS Biological Scientist I

November 2016-July 2019

- Managed the volunteer and intern program at the Marine Mammal Pathobiology Lab (MMPL), which included recruitment, training, scheduling, and assignment of tasks.
- Managed visual media (photo and video) collected by MMPL, was responsible for archiving of media, and the repair and maintenance of photography equipment.
- Oversaw the manatee osteological collection from 2016-2018, including prioritizing and filling full and partial manatee skeletal requests for research and education, overseeing cleaning and preparation of skeletons, and management of the bone loan documentation.
- Responsible for the disposal of carcasses and cleaning of equipment and instruments.

Independence Veterinary Hospital

July 2016-November 2016

Veterinary Assistant

- Maintained organization and cleanliness in the exam rooms, treatment and surgery areas.
- Responsible for updating and managing patient medical files.
- Collected and performed diagnostic tests including radiographs, blood, fecal, and urine tests, as well as prepare out-patient laboratory tests for shipping daily.
- Responsible for restraining animals of various sizes for medical exams and treatments.
- Responsible for pre-op of patients, monitoring of patient vitals during surgery, and post-op procedures.
- Responsible for caring for kennel patients during their stay at the practice.

Brittany Barbeau

Gainesville, FL

brittany.barbeau@ufl.edu

Virginia Aquarium and Marine Science Center-MACC

May 2016-November 2016

Assistant Stranding Technician

- Responded to live and deceased marine mammal and sea turtle stranding events including initial response, triage, and transport, as well as carcass recovery.
- Responsible for assisting in the care of rehab patients, including but not limited to: administration of oral and injectable medications, taking intake baselines, blood draws for CBC and Total Protein checks, performing diagnostic procedures, and debriding and treating wounds.
- Oversaw volunteers and interns performing daily husbandry duties and carcass pick-up.
- Performed marine mammal and sea turtle necropsies.
- Responsible for the collection of Level A, B, and C data for NOAA Fisheries Service.
- Assisted with histology sample preparation.

Palmer Ranch Animal Clinic

November 2015-May 2016

Veterinary Assistant

- Responsible for assisting the doctor provide medical care, performing diagnostic procedures, and educating clients.
- Provided compassionate greetings and assisting all clients.
- Responsible for maintaining organization, cleanliness, and restocking of exam rooms, treatment area, and surgery area.
- Aided in updating and managing medical files on all patients.
- Prepared out-patient laboratory tests for shipping daily.
- Performed the duties of a radiologic technician.
- Obtained and ran diagnostic tests on blood, feces, and urine.

Mote Marine Laboratory

December 2014-June 2015

Marine Mammal and Sea Turtle Stranding Investigations Program Intern

- Responded to live and deceased marine mammal and sea turtle stranding events including initial response, triage, transport, and carcass recovery.
- Provided program and network support for marine mammal and sea turtle rescues and necropsies.
- Responsible for the collection of Level A, B, and C data for the NOAA Fisheries Service
- Aided in management of the Mote stranding database.
- Provided support for program histology sample preparation and curation of the Ruth DeLynn Cetacean Osteological Collection.

Publications

-
- Murawski, A., Fabrizio, T., Ossiboff, R., Kackos, C., Jeevan, T., Jones, J., Kandeil, A., Walker, D., Turner, J., Patton, C., Govorkova, E., Hauck de Oliveira, H., Mickey, S., Barbeau, B., Bommineni, R., Torchetti, M., Lantz, K., Kercher, L., Allison, A., Vogel, P., Walsh, M., Webby, R. (2024). Highly pathogenic avian influenza A (H5N1) virus in a common bottlenose dolphin (*Tursiops truncatus*) in Florida. *Communications Biology*, 7(1), 476. doi: 10.1038/s42003-024-06173-x.
- Bassett, B.L., Hostetler, J.A., Leone, E., Shea, C.P., Barbeau, B.D., Lonati, G.L., Panike, A.L., Honaker, A., Ward-Geiger, L. (2020). Quantifying sublethal Florida manatee–watercraft interactions by examining scars on manatee carcasses. *Endangered Species Research* 43:395-408. <https://doi.org/10.3354/esr01075>

Brittany Barbeau

Gainesville, FL

brittany.barbeau@ufl.edu

Presentations

Stacy, N. I., de Wit, M., Kamat, M., Barbeau, B.D., Vandenberg, J., DiRocco, S., O'Neil, C., Fox, M., Walsh, M., Garrett, T.J. (2023). *Lipidomic profiling in Florida manatees affected by chronic malnutrition due to seagrass die-off in the Indian River Lagoon*. Oral presentation at the 6th Annual Manatee Research Symposium in Gainesville, Florida.

Bassett, B.L., Hostetler, J.A., Leone, E., Shea, C.P., Barbeau, B.D., Lonati, G.L., Panike, A.L., Honaker, A., Ward-Geiger, L. (2022). *Quantifying sublethal Florida manatee–watercraft interactions by examining scars on manatee carcasses*. Oral presentation at the 5th Annual Manatee Research Symposium in Gainesville, Florida.

Boyd, D., Davidson, E., Schubert, M., Nader, A., Panike, A., Tennant, S., Levine, D., Rotstein, D., Hazelnorn, R., Mase, B., Lonati, G., Herring, H.M., Barbeau, B., & Blackburn, J. (2022). *A case study on the effects of plastic ingestion on a stranded Gulf of Mexico Rice's whale (Balaenoptera ricei) in Everglades National Park, Florida*. Poster session presented at the 24th Biennial Conference on the Biology of Marine Mammals in Palm Beach, Florida.

Certifications & Trainings

University of Florida

IRB Training	April 2024
At Risk for Faculty & Staff Kognito Training	February 2024
Shipping and Transport of Biological Materials	February 2024
FERPA Basics	January 2024
Hazardous Waste Management	January 2024
Biomedical Waste Training	January 2024
HIPPA & Privacy-General Awareness	November 2023
Chemical Hygiene Plan Training	October 2023
Bloodborne Pathogens Training	July 2023
Psychological First Aid	October 2022

The Johns Hopkins University

QPR Gatekeeper Training August 2022

QPR Institute

Basic Life Support (BLS) May 2022

American Heart Association

Compassion Fatigue Strategies April 2022

University of Florida College of Veterinary Medicine

Tropical Parasitology: Protozoans, Worms, Vectors, and Human Diseases May 2021

Duke University and Kilimanjaro Christian Medical University College

Boating Skills and Seamanship November 2017

U.S. Coast Guard Auxiliary

Motorboat Operator Certification Course (MOCC) May 2017

U.S. Department of the Interior

OSHA 29 CFR 1910.120 HAZWOPER Training December 2016

Florida Department of Environmental Protection

ICS-100 Introduction to Incident Command System December 2016

U.S. Department of Homeland Security- FEMA

Brittany Barbeau

Gainesville, FL

brittany.barbeau@ufl.edu

Skills

Computer Skills: Microsoft Office, AVImark, Axoscope, MATLAB, R, SAS, TAIR, BLAST, FASTA, ArcGIS

Lab Skills: Histology, Pathology, Cytology, Patch-Clamp, PCR, Gel Electrophoresis, Restriction Digests, mbSUS, biFC, batch affinity chromatography, 1D SDS-PAGE, 2DPAGE, Immunoblot, Gas Spectrometry

Species Experience

- Sirenians: *Trichechus manatus latirostris*
- Cetaceans: *Tursiops truncatus*, *Stenella clymene*, *Stenella attenuata*, *Kogia breviceps*, *Kogia sima*, *Peponocephala electra*, *Feresa attenuata*, *Pseudorca crassidens*, *Physeter macrocephalus*, *Ziphius cavirostris*, *Mesoplodon europaeus*, *Balaenoptera edeni* (Gulf of Mexico subspecies)
- Sea Turtles: *Caretta caretta*, *Chelonia mydas*, *Lepidochelys kempii*, *Dermochelys coriacea*