

ELIZABETH BRAMMER-ROBBINS, MS

PhD Student
Center for Environmental and Human Toxicology
Department of Physiological Sciences
College of Veterinary Medicine
University of Florida, Gainesville, FL USA

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EDUCATION

- 2021-2025 **PhD Veterinary Medical Sciences** (GPA: 4.00)
PI: Dr. Chris Martyniuk Co-PI: Dr. Iske Larkin
Center for Environmental and Human Toxicology
University of Florida, Gainesville, FL USA
- 2019-2021 **MS Veterinary Medical Sciences** (GPA: 3.83)
PI: Dr. Chris Martyniuk Co-PI: Dr. Iske Larkin
Center for Environmental and Human Toxicology
University of Florida, Gainesville, FL USA
- 2013-2017 **BSc Animal Science**
North Carolina State University, Raleigh, NC, USA
Applied Ecology Minor; GPA: 3.68 Magna Cum Laude
- 2014 **Study Abroad**, Wildlife Conservation and Research Study Abroad,
School for Field Studies, Tanzania, East Africa

EXPERIENCE

- June 2021-Present **President**, Veterinary Graduate Student Association, CVM, UF
Plan and host events and meetings for all graduate students in the College of Veterinary Medicine.
Nov. 2020-May 2021 served as **Vice President**
Oct. 2019-Nov 2020 served as **Public Relations Officer**
- Dec.-July 2019 **Veterinary Assistant**, *Animal Emergency and Trauma Hospital, NC*
- Oct. 2017-May 2018 Cared for critically injured or ill patients in the ICU and quarantine unit, conducted X-rays, assisted with surgery, and stabilizing critical patients. Worked toward a Vet Technician position.
- June-Nov. 2018 **Field Director**, *Jumby Bay Hawksbill Project, Antigua*
Nightly patrols of Pasture Beach from sunset to sunrise for 6 months to document and collect samples from each nesting sea turtle and excavate hatched nests. Conducted an independent study on the Jumby Bay hawksbill sea turtle population trends. Presented a poster at the 2019 International Sea Turtle Symposium
- July-Oct. 2017 **Sea Turtle Research Intern**, *Buck Island Reef National Monument, St. Croix*
Night patrols of Buck Island to identify and collect data on nesting sea turtles and protect nests and hatchlings. Input data using Access and engaged with the public weekly for endangered species and conservation education.

- Nov. 2016-May 2017 **Turtle Rehabilitation Volunteer**, *NCSU Veterinary School, NC*
 Assisted veterinary students in the rehabilitation of critically injured fresh water and terrestrial turtles
- Aug. 2016-May 2017 **Public Relations Officer**, *Roots and Shoots Club at NCSU*
 Responsibilities grew from recruiting members to planning and leading meetings. Member 2015-2016.
- Nov. 2015-May 2017 **Equine Reproduction & Foaling Tech** *NCSU Equine Educational Unit, NC*
 Promoted from volunteer to paid Team Leader. Learned vital communication, decision-making, and leadership skills delegating to team members. Taught undergraduate labs and led demonstrations. Applied reproductive physiology knowledge from previous courses.
- May-August 2016 **Field Technician**, *Haddad Lab*
 Independently developed two original hypotheses, tested, and presented significant findings. Worked efficiently and cooperatively as a member of a small summer field crew carrying out research and management actions to conserve the federally critically endangered St Francis Satyr butterfly.
- May-August
 2013, 2014, 2015 **Kennel Assistant**, *Myrtle Grove Animal Hospital, NC*
 Reliably assisted technicians and veterinarians with medical treatment and prepared for and observed surgeries. Consistently served clients with quality customer service.

TEACHING EXPERIENCE

- August 2022-Current Trained undergraduate research assistants, Needles, A.N. and Wetmore, A.M.
- July 2021-Current Trained undergraduate research assistant, McCoy, M.M.
- Feb. 2020-May 2021 Trained undergraduate research assistants, Freeman, E.K., and Kanarek, A.S.
- Spring 2020 **Teaching Assistant**, Aquatic Wildlife Health VME 5372 (online course)

PUBLICATIONS

- Brammer-Robbins, E.**, Nouri, M.Z., Aristizabal-Henao, J.J., Denslow, N., Bowden, J. A., Larkin, I.V., & Martyniuk, C. J. (2022). Assessment of adrenal hormones and lipids in the Florida manatee (*Trichechus manatus latirostris*) from habitats under anthropogenic stressors. *Gen Comp Endocrinol.* (Under review)
- Brammer-Robbins, E.**, Costa, K. A., Bowden, J. A., Martyniuk, C. J., Larkin, I., & Denslow, N. (2022). Putative high-level toxicity pathways based on evidence of brevetoxin immunotoxicity in marine fauna. *Aquatic Toxicology*, 106298.
- Nguyen, K., Sanchez, C. L., **Brammer-Robbins, E.**, Pena-Delgado, C., Kroyter, N., El Ahmadi, N., ... & Martyniuk, C. J. (2022). Neurotoxicity assessment of QoI strobilurin fungicides azoxystrobin and trifloxystrobin in human SH-SY5Y neuroblastoma cells: Insights from lipidomics and mitochondrial bioenergetics. *NeuroToxicology*, 91, 290-304.

- Sehna, L., **Brammer-Robbins, E.**, Wormington, A., Blaha, L., Bisesi, J., Larkin, I., Martyniuk, C., Simonin, M. & Adamovsky, O. (2021). Microbiome composition and function in aquatic vertebrates: small organisms making big impacts on aquatic animal health. *Frontiers in Microbiology*, 12, 358.
- Henry, E., **Brammer-Robbins, E.**, Aschehoug, E., & Haddad, N. (2019). Do substitute species help or hinder endangered species management? *Biological Conservation*, 232, 127-130. doi:10.1016/j.biocon.2019.01.031

POSTERS & PRESENTATIONS

- Brammer-Robbins, E.**, Nouri, M.Z., Aristizabal-Henao, J.J., Denslow, N., Bowden, J. A., Larkin, I.V., & Martyniuk, C. J. Lipid and Hormone Indicators of Reproductive Status in Florida Manatees (*Trichechus manatus latirostris*). 2022 Florida Genetics Symposium. (In-person Poster Presentation)
- Brammer-Robbins, E.**, Costa, K. A., Bowden, J. A., Martyniuk, C. J., Larkin, I., & Denslow, N. (2022). Putative high-level toxicity pathways based on evidence of brevetoxin immunotoxicity in the Florida manatee. UF Aquatic Animal Health Manatee Symposium 2022. (In-person Conference Presentation)
- Brammer-Robbins E.M.**, Freeman E.K., Kanarek A.S., Bisesi J.H. Jr., Cassiano E.J., Tuckett Q.M., Yanong R.P.E., Martyniuk, C.J. Evaluating Probiotic Treatments in the Ornamental Fish Aquaculture Industry: Implications for Managing *Edwardsiella ictaluri* Outbreaks and Fish Microbiota. International Association for Aquatic Animal Medicine (IAAAM), May 22-26, 2021. (Virtual Conference Presentation)
- Brammer-Robbins E**, Nouri, M.Z., Denslow N, Larkin I, Martyniuk CJ. Novel insight into Florida Manatee (*Trichechus manatus latirostris*) reproductive physiology: Implications for conservation biology. North American Society for Comparative Endocrinology (NASCE) 2021. (Virtual Conference Presentation)
- Brammer-Robbins, E.**, Aristizabal-Henao¹, J., Bowden, J., Nouri, M.Z., Denslow, N., Larkin, I., Martyniuk, C. Lipid and hormone indicators of reproductive status in Florida manatees (*Trichechus manatus latirostris*). UF Aquatic Animal Health Manatee Symposium 2021. (In-person Conference Presentation)
- Brammer-Robbins, E.**, Nouri, M.Z., Denslow, N., Larkin, I., Martyniuk, C. Development of a mass spectrometry-based approach to measure Florida Manatee (*Trichechus manatus latirostris*) sex steroid hormones in plasma. UF Aquatic Animal Health Manatee Symposium 2020. (Virtual Conference Presentation)
- Brammer-Robbins, E.**, Maurer A., Stapleton S. A sudden decline in nesting hawksbills at Jumby Bay, Antigua, West Indies. International Sea Turtle Symposium. February 2019 (Poster)
- Brammer-Robbins, E.**, Haddad, N. Microhabitat effects on the flight behavior of the St. Francis Satyr butterfly and its surrogate species. Applied Ecology Minor Research Symposium, North Carolina State University. April 2017 (Presentation)
- Brammer-Robbins, E.**, Jamison, L., Wong, N. Practical Uses of Genetics. College of Agriculture and Life Sciences Honors Program Research Symposium, North Carolina State University. April 2016 (Poster)
- Brammer-Robbins, E.**, Kioko, J., Ethnoveterinary uses of native plants to treat Maasai livestock. Independent Research Community Presentation, School for Field Studies Tanzania. November 2014. (Presentation)

AWARDS & CERTIFICATIONS

2021

Louis J. Guillette, Jr. Graduate Student Travel Award

\$100 Research presentation award to a student for their research presentation at the North American Society for Comparative Endocrinology (NASCE) conference.

2021-2025

UF College of Veterinary Medicine Block Grant

\$124,000 stipend for 4 years

Paid Tuition

2019-2024

National Science Foundation – Graduate Research Fellowship

\$138,000 Fellowship covers tuition (\$12,000/year) and stipend (\$34,000/year)

\$6,000 allocated for research costs

Graduate School fees are paid

2013-2017

University Scholar

Maintained high GPA, completed honors courses, fulfilled additional breadth seminar requirements

2015

College of Agriculture and Life Sciences Honors Student

Completed honors course and presented research poster at CALS Honors Program Research Symposium

2013-2017

Dean’s List 5 of the 7 semesters

MEMBERSHIPS

2021-2023

North American Society for Comparative Endocrinology (NASCE)