

MEET OUR STUDENTS

2ND YEARS IN THE MASTER'S IN MARINE MAMMAL SCIENCE PROGRAM



CARSON HOOD

My research focus is studying the capacity for marine mammals to perceive and entrain to rhythmic stimuli. I'm currently exploring rhythmic entrainment to non-isochronous stimuli in a California sea lion.

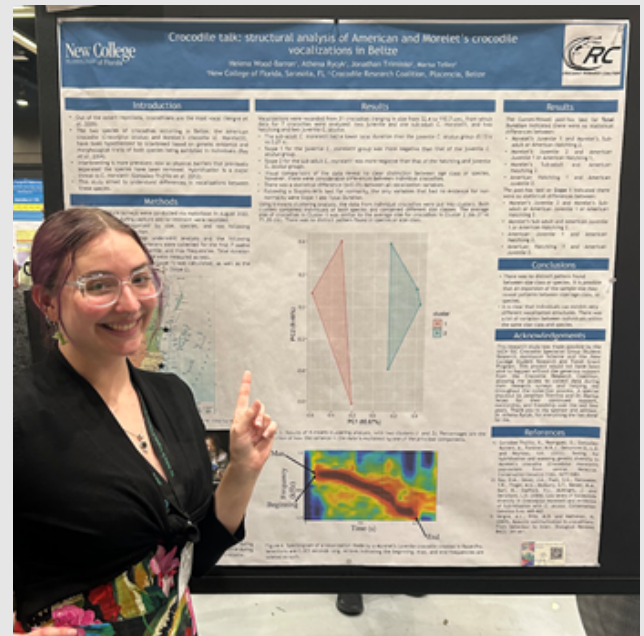
I'm working in partnership with the Sensory Systems and Cognition Laboratory at the University of California, Santa Cruz.

I'm working with Drs. Peter Cook & Colleen Reichmuth, the impressively wonderful Pinniped Lab staff, and Ronan.

HELENA WOOD-BARRON

I am currently working on a bioacoustics project with Dr. Athena Rycyk. I am characterizing and comparing manatee vocalizations recorded in several western African countries to see if the vocalizations vary by geographical region.

This is my second bioacoustics project that I have worked on under Dr. Rycyk's guidance, and I am very excited to be working with her again!





TYLER FORTUNE

Tyler (Ty) took the scenic route to getting to graduate school. Building a career first in marine science education before starting in the program.

He is currently working in Dr. Athena Rycyk's Bioacoustics Lab exploring the presence of manatees at seagrass restoration sites by searching for their chewing sounds from passive acoustic monitor recordings.

SYDNEY HAAS

My research focus is determining the species and size of sharks that are biting the dolphins in the Sarasota Bay. I am doing this by developing growth models to create reference measurements to measure the interdental distances and bite circumferences of shark bites left on dolphins.

I am working with the Sarasota Dolphin Research Program and my data was collected from the dolphins in the Sarasota Bay. I am working with Dr. Heidi Harley, Dr. Krystan Wilkinson, Dr. Lisa Whitenack, and I would like to acknowledge Dr. Randy Wells and Gretchen Lovewell.





ELIZABTH FRY

My research focus is on the impacts of early life exposure to *Karenia brevis* on bottlenose dolphins in Sarasota Bay.

I am working with the Sarasota Dolphin Research Program with Dr. Katie McHugh, Dr. Heidi Harley, and Dr. Peter Cook, with acknowledgement for Dr. Randy Wells and the entire SDRP team.

PETE GREMORE

My research focus is on Pinniped social behavior and I am currently working on the characterization of social play behavior of California Sea Lions (*Zalophus californianus*)

My research is occurring at Año Nuevo Island and with the Pinniped Cognition and Sensory Systems Lab.

Thank you to my advisor, Dr. Peter Cook, and to my mentors, Dr. Colleen Reichmuth and Dr. Gordon Bauer, for their guidance and support.





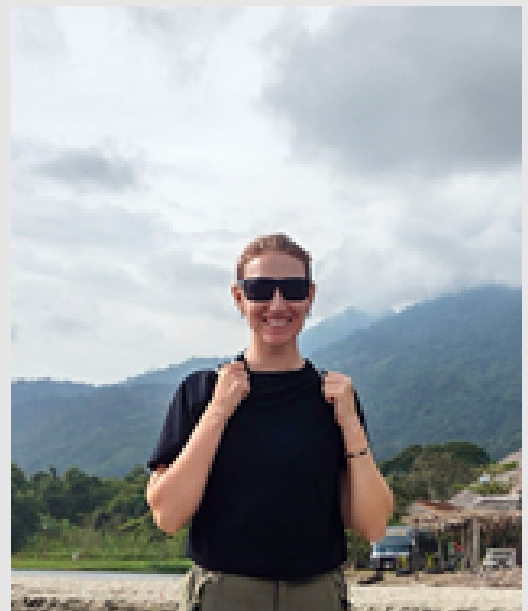
VIVIAN CARGILLE

My research is focused on bioacoustics and passive acoustic monitoring, utilizing new technology to better research elusive species. My current project is with Dr. Athena Rycyk, developing machine learning detection methods for understudied African Manatees. These findings will help inform conservation work and habitat understanding. We are using recording data from Florida, Nigeria, Cameroon, and Senegal. Special thanks to Dr. Rycyk as my advisor and mentor.

LYDIA WASSINK

My research focus is on dolphin behavior and cognition, and specifically metacognition and theory of mind.

I am working with Dr. Heidi Harley.





SOPHIE FLEM

My research focus is dolphin/whale neuroscience and I'm currently focusing on finding the brain pathways that support their remarkable capacities for sound production, for both echolocation and communication purposes. I'm primarily based at the lab of Dr. Patrick Hof at Mount Sinai Hospital in New York City. This is home to the one-of-a-kind Morgane + Glezer Cetacean Brain Collection, an archive of immaculately-stained whole-plane brain slices from dolphins and a humpback whale from the 1960s. The Hof lab also contains a vast array of preserved marine and terrestrial mammalian brains, including dozens of cetacean brains from diverse species.

These collections, along with Mount Sinai's state-of-the-art histology, immunohistochemistry, and stereology equipment, make the lab an ideal location for a student of cetacean neuroscience. I am incredibly thankful to be able to work in this lab while also studying in the Marine Mammal Master's program. I miss seeing my mentors and classmates, but am happy to have set up a little northeastern cetacean neuroscience outpost for MIMMS!

Beyond this, I am proud to say we also have a litany of different collaborators around the country and world! To name a few-- Karla Miller, Saad Jbabdi, and Austin Benn from Oxford University's Wellcome Centre for Integrative Neuroimaging; Bruno Cozzi, Jean-Marie Graic, Tommaso Gerussi, and Ksenia Orekhova from University of Padova's Dept. of Comparative Biomedicine and Food Science; Bridget Meloni from Rockefeller University; Peter Tyack from Woods Hole Oceanographic Institute; István Huszár from Massachusetts General Hospital; Peter Madsen's lab at Aarhus University; Eric Montie from the Marine Sensory and Neurobiology Lab and The Lowcountry Dolphin Conservation Program at University of South Carolina Beaufort; Ben Inglis, Dillon Niederhut, and Terrence Deacon from University of California, Berkeley; and Greg Berns from Emory University School of Medicine.

Thank you always to all members of the MIMMS faculty and staff (especially Drs. Peter Cook and Heidi Harley as my research mentors and thesis committee members in undergrad!), as well as to Mount Sinai Hospital, the W787 building staff, and all members of the Hof lab (especially lab manager Bridget Wicinski!)

Also, thank you to Andrew Rouse for your tech assistance and expertise!

LISA CARBARY

My research focus is on rehabilitated manatees in human care, and specifically adaptive behaviors and hormonal responses to environmental change.

My research is occurring at The Seas at Epcot, Walt Disney World.

I'm working with Dr. Heidi Harley, Dr. Julianna Kadar, Kim Odell, Catharine Wheaton, Dr. Jen Flower, Dr. Kyle Donnelly, and Wendi Fellner

