

# Department of Environmental Science and Policy

## Seminar Series

### Interdisciplinary Research Approaches to Inform the Conservation and Management of Sharks and Rays

Catherine Macdonald

University of Miami

**DATE:** Thursday, 9/19/2024 **TIME:** 10:00 am **ROOM:** 107 Schwartz Nursing

**Zoom:** <https://miami.zoom.us/j/92964807674>



**Abstract:** This seminar will focus on social and ecological research approaches to inform the conservation and management of sharks and rays. I will begin by discussing my research on public perceptions and attitudes toward sharks and marine conservation, including multiple stakeholder groups and research methods. I will also discuss research exploring the physiological effects of recreational fishing on sharks, with a case study on nurse sharks that includes evaluating the potential effects of anthropogenic climate change on capture stress response and recovery. Finally, I will present findings related to our long-term monitoring of a multi-species shark nursery off the coast of Miami, sharing insights from our recent deployment of ten-year acoustic tags on Critically Endangered juvenile great hammerheads. Throughout my talk, I will touch on my integration of research with pedagogy and my commitment to broadening participation in STEM.

**Bio:** Dr. Catherine Macdonald is an interdisciplinary marine conservation ecologist, and an Assistant Research Professor at the University of Miami's Rosenstiel School of Marine, Atmospheric, and Earth Science. Dr. Macdonald's work broadly focuses on marine ecological monitoring across scales, human-wildlife conflict, and wildlife tourism. Dr. Macdonald is the Director of the University of Miami's Shark Research and Conservation Program (SRC), which offers more than 50 hands-on shark tagging field trips per year to middle and high school students in South Florida, giving them the opportunity to learn about science and the species in their backyard. She is also one of the co-founders of Field School, which teaches students marine science fieldwork skills in a safe, supportive, and inclusive environment.

UNIVERSITY OF MIAMI

ROSENSTIEL SCHOOL of  
MARINE, ATMOSPHERIC  
& EARTH SCIENCE

