

Corrine Avidan

Current Address: 120 Spruce St. Providence RI 02903

Cell Phone +1 (401) 808-7007 ~ E-mail: corrine_avidan@brown.edu

Education:

Brown University

November 2020 – Present

- Postdoctoral research fellow
- Department of Ecology & Evolutionary Biology

Interuniversity Institute/Tel Aviv University, Israel

Graduated: September 2020

- Doctorate of Philosophy
- Thesis: Broad scale patterns in the evolution of teleost suction feeding: does the mechanism evolve to maximize suction performance?

Coastal Carolina University in SC, USA

Graduated: May 2015

- Bachelor of Science Degree
- Major: Marine Science; Minor: Environmental Science and Biology

Publications:

- **Avidan, C.**, and Holzman, R. (2021). Butterflyfish are poor bioindicators of coral health. *Journal of Experimental Biology*. *In Review*.
- **Avidan, C.**, Holzman, R. 2021. Elastic energy storage in seahorses leads to a unique suction flow dynamics compared with other actinopterygians. *Journal of Experimental Biology* 224(17).
- **Avidan, C.**, Day, S. W. and Holzman, R. (2020). A power amplification dyad in seahorses. *bioRxiv* 21, 1–9.
- **Jacobs, C. N.**, & Holzman, R. (2018). Conserved spatio-temporal patterns of suction-feeding flows across aquatic vertebrates: a comparative flow visualization study. *Journal of Experimental Biology*, 221(7), jeb174912.
- **Jacobs, C. N.**, Merchant, W., Jendrassak, M., Limpasuvan, V., Gurka, R., Hackett, E. E., Sirovich L., (2016). Flow Scales of Influence on the Settling Velocities of Particles with Varying Characteristics. *PLOS ONE*, 11(8), e0159645.

Presentations in Scientific Meetings:

- **Jacobs C.**, Day S., Holzman R., (2020). The power amplification dyad in seahorses. Talk given at Society for Integrative and Comparative Biology, Austin, Texas, USA.
- **Jacobs C.**, Day S., Holzman R., (2019). The Power of Pivot Feeding: A Neglected Role for Power Amplification in Syngnathidae. Talk given at Microscale Ocean Biophysics meeting, Whistler, Canada.
- **Jacobs C.**, Day S., Holzman R., (2019). The Power of Pivot Feeding: A Neglected Role for Power Amplification in Syngnathidae. Talk given at Society for Integrative and Comparative Biology, Tampa, USA.
- **Jacobs C.**, Holzman R., (2018). New insights into power during pivot feeding in seahorses. Poster given at Society for Integrative and Comparative Biology, San Francisco, USA.
- **Jacobs C.**, Holzman R., (2017). The diversity of suction feeding performance across teleosts: a PIV study with 16 species. Talk given at Society for Integrative and Comparative Biology, New Orleans, USA.

- **Jacobs C.,** Holzman R., (2016, October). Evolutionary trends in suction feeding performance across teleost. Poster presented at Microscale Ocean Biophysics meeting, Eilat, Israel.
- **Jacobs C.,** (2014, December). Experimental Study of Particle Settling Velocities. Poster presented at the American Geophysical Union Fall Meeting, San Francisco, CA.

Professional Experience:

- Teaching Assistant, Brown University, 2021
 - Courses: Human anatomy and physiology
 - Conducted oral tests through video platform during COVID
- Lab Instructor, Interuniversity Institute, 2015-2020
 - Course: Introduction to the Red Sea
 - Lead students in designing and conducting research projects during the concentrated course.
- Teaching Assistant, Interuniversity Institute, 2015-2020
 - Courses: Plankton taxonomy, Quantitative methods, and Ichthyology
 - Played a critical role in setting up labs and instructing students

Professional Prizes, Scholarships & Awards:

- National Science Foundation Postdoctoral Research Fellowship - 2020
 - (3 Years of Funding), NSF Postdoctoral Research Fellowships in Biology (NSF 20-077)
- Outstanding teacher's assistant – 2020
 - Prize of excellence awarded to 2 teaching staff.
- Berko Award - 2018
 - Prize of excellence to students active in the IUI and engaged in maritime research.
- Whistler Prize - 2019
 - Won best flash talk during the conference
- CLiF Scholar - 2015, 2016 and 2017
 - Selected recipient of 21000 NIS for my submitted research proposal
- Distinguished scholar - 2011,2012,2013,2014
 - Coastal Carolina University, given to the top 1% students for excellence in BA studies \$9500 per year.
- President's scholar - 2011,2012,2013,2014
 - Coastal Carolina University, given to the top 1% students for in BA studies while demonstrating high levels of involvement in the degree program \$11000 per year.
- Semester at Deakin University Warrnambool, Australia, fall 2013.

References:

Dr Roi Holzman

The Interuniversity Institute for Marine Sciences in Eilat & Tel Aviv University
holzman@post.tau.ac.il
 08-6360134

Dr. Erin Hackett

Coastal Carolina University
ehackett@coastal.edu
 843-349-4087