

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
- Department of Zoology

Coastal Carolina University in SC, USA

Graduated: May 2015

- Bachelor of Science Degree
- Major: Marine Science
- Minor: Environmental Science and Biology
- Cumulative GPA: 3.87 and Dean's List for all semesters
 - Grade equivalent: 95

Publications:

- Avidan, C., Day, S. W. and Holzman, R. (2021). A power amplification dyad in seahorses. *PNAS. In Review.*
- Avidan, C., and Holzman, R. (2021). Spatial temporal patterns of suction feeding seahorses. *Journal of Experimental Biology. In Review.*
- Avidan, C., and Holzman, R. (2021). Butterflyfish are poor bioindicators of coral health. *Journal of Experimental Biology. In Review.*
- 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:

- **Society for Integrative and Comparative Biology, Austin, USA:** Jacobs C., Day S., Holzman R., (2020, January). The power amplification dyad in seahorses. Talk given at Society for Integrative and Comparative Biology, Austin, Texas, USA.
- **Microscale Ocean Biophysics meeting in Whistler, Canada:** Jacobs C., Day S., Holzman R., (2019, January). The Power of Pivot Feeding: A Neglected Role for Power Amplification in Syngnathidae. Talk given at Microscale Ocean Biophysics meeting, Whistler, Canada.
- **Society for Integrative and Comparative Biology, Tampa, USA:** Jacobs C., Day S., Holzman R., (2019, January). The Power of Pivot Feeding: A Neglected Role for Power Amplification in Syngnathidae. Talk given at Society for Integrative and Comparative Biology, Tampa, USA.

- **Society for Integrative and Comparative Biology, San Francisco, USA:** Jacobs C., Holzman R., (2018, January). New insights into power during pivot feeding in seahorses. Poster given at Society for Integrative and Comparative Biology, San Francisco, USA.
- **Society for Integrative and Comparative Biology, New Orleans, USA:** Jacobs C., Holzman R., (2017, January). 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.
- **Microscale Ocean Biophysics meeting in Eilat, Israel:** Jacobs C., Holzman R., (2016, October). Evolutionary trends in suction feeding performance across teleost. Poster presented at Microscale Ocean Biophysics meeting, Eilat, Israel.
- **American Geophysical Union in San Francisco, USA:** Jacobs C., (2014, December). Experimental Study of Particle Settling Velocities. Poster presented at the AGU Fall Meeting, San Francisco, CA.

Professional Experience:

- 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
- Teaching Assistant, Brown University, 2021
 - Courses: Human anatomy and physiology
 - Conducted oral tests through video platform during COVID

Professional Prizes, Scholarships & Awards:

- National Science Foundation Graduate Research Fellowship - 2020
 - (2 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.

PhD Work:

Characterizing suction flows
Dr Roi Holzman

October 2015 – September 2020

The Interuniversity Institute for Marine Sciences in Eilat & Department of Zoology, Tel Aviv University

holzman@post.tau.ac.il

08-6360134

BA Work:

Sediment transport/larvae dispersal lab

Coastal Carolina University

Dr. Erin Hackett

Assistant Professor, School of Coastal and Marine Systems Science, Coastal Carolina University

ehackett@coastal.edu

843-349-4087

Plankton monitoring

January 2014 - May 2015

- Study the abundance of plankton indicators