

# Corrine Avidan

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## Education:

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### 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:

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- **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.**, and Holzman, R. (2021). Butterflyfish are poor bioindicators of coral health. *Journal of Experimental Biology*. 224(6).
- **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:

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- **Avidan C.**, Holzman R., (2022). The mechanism behind the power in syngnathids. Talk given at Fast Movements: Nature, Robotics and Materials, Duke University, Durham, NC.
- **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:**

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- 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:**

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- 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:**

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Dr Roi Holzman

The Interuniversity Institute for Marine Sciences in Eilat & Tel Aviv University

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Dr. Erin Hackett

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