

SARAH T. FRIEDMAN

CONTACT

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EDUCATION

2015 – Present Ph.D. in Evolution and Ecology
University of California, Davis
Expected Graduation Date: June 2020
Advisor: Dr. Peter C. Wainwright

2010 – 2014 B.S. in Aquatic and Fishery Sciences
Minor in Marine Biology
University of Washington
Advisor: Dr. Ted W. Pietsch

PUBLICATIONS

Vaz, D., **Friedman, S.T.**, Martinez, C., and Rizzato, P. (In Review). Taxonomy and Morphology. Chapter 6 in *Methods for Fish Biology*. American Fisheries Society, Bethesda, Maryland.

Friedman, S. T., Price, S.A., Corn, K.A., Larouche, O., Martinez, C.M., and Wainwright, P.C. (In prep). Morphological diversification along the benthic-pelagic axis in marine teleosts.

Price, S.A., **Friedman, S.T.**, Corn, K.A., Martinez, C.M., Larouche, O., and Wainwright, P.C. (2019). Building a body shape morphospace of teleostean fishes. *Integrative and Comparative Biology*. doi:10.1093/icb/icz115/5523207.

Friedman, S.T., Martinez, C.M., Price, S.A., and Wainwright, P.C. (2019) The influence of size on body shape diversification across Indo-Pacific shore fishes. *Evolution*. doi:10.1111/evo.13755.

Minicozzi, M., Kimball, D., Finden, A., **Friedman, S.**, and Gibb, A.C. (2019). Are extreme anatomical modifications required for fish to move effectively on land? Comparative anatomy of the posterior axial skeleton in the Cyprinodontiformes. *The Anatomical Record*. <https://doi.org/10.1002/ar.24117>.

Friedman, S.T., Price, S.A., Hoey, A.S., and Wainwright, P.C. (2016). Ecomorphological convergence in planktivorous surgeonfishes. *Journal of Evolutionary Biology*. doi: 10.1111/jeb.12837.

Price, S.A., **Friedman, S.T.**, and Wainwright, P.C. (2015). How predation shaped fish: the impact of fin spines on body form evolution across teleosts. *Proceedings of the Royal Society of London B: Biological Sciences*. 282:20151428.

RESEARCH AND GRANTS

2019	UC Davis Center for Population Biology Travel Award (\$1,500)
2017	Ecology Student Endowment (\$2,475)
2016	Center for Population Biology Research Award (\$1,385)
2016	Ecology Student Endowment (\$2,310)

AWARDS AND FELLOWSHIPS

2019	W.D. Hamilton Award finalist, Evolution, awarded Honorable Mention
2019	UC Davis Outstanding Graduate Student Teaching Award
2017	Graduate Group in Ecology Fellowship
2016	Stephen and Ruth Wainwright Endowed Fellowship (\$2,500)
2016	Ted and Silvia Hillyer Fellowship (\$1,000)
2016	James P. Micheletti Research Fellowship
2016	Graduate Group in Ecology Fellowship
2014	Wake Award for Best Student Poster, SICB Conference
2013	Clarence H. Campbell Endowed Lauren Donaldson Scholarship (\$5,106)
2013	Thomas and Mary Peck Scholarship (\$2,100)

TEACHING EXPERIENCE

2019	Teaching Assistant, Life in the Sea (EVE 12), UC Davis
2019	Teaching Assistant, Data Carpentry in R, UC Davis
2018	Teaching Assistant, Evolution and Ecology (BIS 2B), UC Davis
2015 – 2018	Instructor, Biodiversity of Fishes, UC Davis
2013 – 2014	Teaching Assistant, Biology of Fishes (FISH 311), University of Washington

RESEARCH EXPERIENCE

- 2014 – 2015 Junior Specialist, University of California Davis, Davis, CA
Using comparative phylogenetic methods to assess ecomorphological convergence in zooplanktivorous surgeonfishes
- 2010 – 2014 Curatorial Assistant, Burke Museum Ichthyology Collection, Seattle, WA
- Summer 2013 SSI Intern, California Academy of Sciences, San Francisco, CA
Evaluating genetic structure of *Microspathodon chrysurus* populations from two biogeographic provinces divided by the Amazon River freshwater outflow
- Summer 2012 MPL Intern, Scripps Institute of Oceanography, San Diego, CA
Estimating spatial and temporal distributions of fish species after the Deepwater Horizon oil spill using passive acoustics

SELECT CONFERENCE PRESENTATIONS

- Friedman, S.,** Price, S., and P. Wainwright. Getting to the bottom of it: Morphological diversification in benthic teleosts. Oral presentation delivered at Evolution, Providence, RI. June 2019.
- Friedman, S.,** Price, S., and P. Wainwright. Getting to the bottom of it: Morphological diversification in benthic teleosts. Oral presentation delivered at the Society for Integrative and Comparative Biology, Tampa, FL. January 2019.
- Friedman, S.,** Price, S., and P. Wainwright. The influence of body size on morphological diversification across fishes. Oral presentation delivered at the Society for Integrative and Comparative Biology, San Francisco, CA. January 2018.
- Friedman, S.,** Price, S., Hoey, A. and P. Wainwright. Ecomorphological convergence in planktivorous surgeonfishes. Oral presentation delivered at the Society for Integrative and Comparative Biology, New Orleans, LA. January 2017.
- Friedman, S.,** Price, S., Hoey, A. and P. Wainwright. Ecomorphological convergence in planktivorous surgeonfishes. Oral presentation delivered at the American Society of Ichthyologists and Herpetologists, Reno, NV. July 2015.

FIELDWORK

- 2016 – 2018 Data collection of linear morphometric measurements of fish body shape at the Smithsonian Museum of Natural History
- 2012 Acoustician, Localizing on sperm whale calls for tagging efforts in the Gulf of Mexico aboard the R/V Gordon Gunter (2 weeks)

PROFESSIONAL SOCIETIES

Evolution

Gilbert Ichthyological Society

Society for Integrative and Comparative Biology (SICB)

American Society of Ichthyologists and Herpetologists (ASIH).

SERVICE AND OUTREACH

REVIEWER

Integrative and Comparative Biology (1), Systematic Biology (1), Journal of Anatomy (1), Journal of Fish Biology (1), The American Naturalist (1), Proceeding of the Royal Society B: Biological Sciences (1), Evolution (2)

RECENT COMMUNITY OUTREACH

2019 Scientist Educator, Skype A Scientist program

2016 - 2019 Presenter, Biodiversity Day, Bohart Museum, Davis, CA

2016 - 2017 Exhibitor, Picnic Day, University of California, Davis, CA

2014 Educator, Nightlife, California Academy of Sciences, San Francisco, CA

2013 Teaching Assistant, Marine Biology 250 field trips, Friday Harbor, WA