

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.**, Martinez, C., and Rizzato, P. (Submitted). Taxonomy and Morphology. Chapter 6 in *Methods for Fish Biology*. American Fisheries Society, Bethesda, Maryland.

Friedman, S.T., Martinez, C.M., Price, S.A., and Wainwright, P.C. (In Revision). The influence of size on body shape diversification across Indo-Pacific reef fishes. *Evolution*.

Minicozzi, M., Kimball, D., Finden, A., **Friedman, S.**, and Gibb, A.C. (Accepted). 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*.

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

2017 Ecology Student Endowment (\$2,475)

2016 Center for Population Biology Research Award (\$1,385)
2016 Ecology Student Endowment (\$2,310)

Awards and Fellowships

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

Conference Presentations

- 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.
- Friedman, S. and L. Rocha.** Molecular evidence for biogeographic speciation of the yellowtail damselfish, *Microspathodon chrysurus*. Poster presentation delivered at the Society for Integrative and Comparative Biology, Austin, TX. January 2014.
- Friedman, S. and L. Rocha.** A Great Divide: Allopatric Speciation in the Yellowtail Damselfish, *Microspathodon chrysurus*. Oral presentation delivered at the Gilbert Ichthyological Society. Pack Forest, WA. September 2013.

Fieldwork

- 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

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)

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, FHL, Friday Harbor, WA