

## SARAH T. FRIEDMAN

CONTACT

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EDUCATION

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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

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- 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.
- Price, S.A., **Friedman, S.T.**, Corn, K.A., Martinez, C.M., Larouche, O., and Wainwright, P.C. (Submitted). Building a body shape morphospace of teleost fishes. *Integrative and Comparative Biology*.
- 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 shore fishes. *Evolution*.
- 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

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

#### AWARDS AND FELLOWSHIPS

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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

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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

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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 <i>Microspathodon chrysurus</i> 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

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**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

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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

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Gilbert Ichthyological Society  
Society for Integrative and Comparative Biology (SICB)  
American Society of Ichthyologists and Herpetologists (ASIH)

#### SERVICE AND OUTREACH

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#### 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,  
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