

SARAH T. FRIEDMAN

CONTACT

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PROFESSIONAL EXPERIENCE

Hutchinson Environmental Postdoctoral Fellow | Sept 2020 – Present
Department of Ecology and Evolutionary Biology
Yale University

EDUCATION

Ph.D. in Ecology | 2015 – 2020
University of California, Davis
Advisor: Dr. Peter C. Wainwright

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

PEER-REVIEWED PUBLICATIONS

- 8) Larouche, O., Benton, B., Corn, K.A., **Friedman, S.T.**, Gross, D., Iwan, M., Kessler, B., Martinez, C.M., Rodriguez, S., Whelpley, H., Wainwright, P.C., and Price, S. A. (2020). Reef-associated fishes have more maneuverable body shapes at a macroevolutionary scale. *Coral Reefs*. doi:10.1007/s00338-020-01976-w.
- 7) **Friedman S.T.**, Price S.A., Corn, K.A., Larouche O., Martinez C.M., Wainwright P.C. (2020). Body shape diversification along the benthic–pelagic axis in marine fishes. *Proc. R. Soc. B* 287: 20201053. doi:10.1098/rspb.2020.1053.
- 6) Price, S.A., Larouche, O., **Friedman, S.T.**, Corn, K.A., Wainwright, P.C. and Martinez, C.M. (2020). A CURE for a major challenge in phenomics: a practical guide to implementing a quantitative specimen-based undergraduate research experience. *Integrative Organismal Biology*. doi:10.1093/iob/obaa004
- 5) 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.

- 4) **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.
- 3) 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>.
- 2) **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.
- 1) 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.

MANUSCRIPTS IN PROGRESS

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

Friedman, S.T., Collyer, M.L., Price, S.A., and Wainwright, P.C. (In Review). Divergent processes drive parallel evolution in marine and freshwater fishes. *Systematic Biology*.

Friedman, S.T., Price, S.A., and Wainwright, P.C. (In Review). The effect of locomotion mode on body shape evolution in teleost fishes. *American Naturalist*.

Martinez, C.M., **Friedman, S.T.**, Corn, K.A., Larouche, O., Price, S.A., and Wainwright, P.C. (In Review). The deep sea is a hot spot of fish body shape evolution. *Ecology Letters*.

AWARDS AND FELLOWSHIPS

2020	NSF Postdoctoral Research Fellowship in Biology (\$138,000; declined)
2020	Wake Award for Best Student Presentation, SICB Conference
2019	W.D. Hamilton Award finalist, awarded Honorable Mention (\$500)
2019	UC Davis Outstanding Graduate Student Teaching Award (\$500)
2019	UC Davis Center for Population Biology Travel Award (\$1,500)
2017	Ecology Student Endowment (\$2,475)
2017	Elizabeth P. Wood Fellowship (\$2,072)
2017	Graduate Group in Ecology Fellowship (\$11,864)
2016	Center for Population Biology Research Award (\$1,385)
2016	Ecology Student Endowment (\$2,310)

2016	Stephen and Ruth Wainwright Endowed Fellowship (\$2,500)
2016	Ted and Silvia Hillyer Fellowship (\$1,000)
2016	James P. Michelletti Research Fellowship (\$7,319)
2016	Graduate Group in Ecology Fellowship (\$18,876)
2014	Wake Award for Best Student Poster, SICB Conference

TEACHING EXPERIENCE

2018 – 2020	Teaching Assistant, Evolution and Ecology (BIS 2B), UC Davis
2019	Teaching Assistant, Life in the Sea (EVE 12), UC Davis
2019	Teaching Assistant, Data Carpentry in R, UC Davis
2015 – 2018	Instructor, Biodiversity of Fishes, UC Davis
2013 – 2014	Teaching Assistant, Biology of Fishes (FISH 311), Univ. of Washington

INVITED SEMINARS

2020	University of Minnesota, Mankato
2021	Yale University

SELECT CONFERENCE PRESENTATIONS

Friedman, S. Collyer, M., Price, S., and P. Wainwright. Divergent processes drive parallel evolution in marine and freshwater fishes. Oral presentation delivered at SICB, Austin, TX. Jan 2020.

Friedman, S., Price, S., and P. Wainwright. Morphological diversification along the benthic-pelagic axis in marine teleosts. Oral presentation delivered at Gilbert Ichthyological Society, Eatonville, WA. Sept 2019.

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.

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 (2), Evolution (2), BMC Evolutionary Biology (1), Copeia (1), Scientific Reports (1), Nature Climate Change (1)

RECENT COMMUNITY OUTREACH

2020	STEM Career Workshop for Girl Scouts
2019 - 2020	Scientist Educator, Skype A Scientist program
2016 - 2020	Presenter, Biodiversity Day, Bohart Museum, Davis, CA
2016 - 2018	Exhibitor, Picnic Day, University of California, Davis, CA

References available upon request
