

Jonathan M. Huie

Friday Harbor Laboratories
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EDUCATION

2015 – 2019 **University of Washington**, Seattle, WA
B.S in Aquatic and Fishery Sciences & Marine Biology Double Major
Study abroad: Prague, Czech Republic, Fall 2017

RESEARCH EXPERIENCE

- 2019– pres. Lab Technician, Friday Harbor Laboratories, Friday Harbor, WA
- Generate micro-CT data and uploaded scans to MorphoSource.org as part of the NSF-funded oVert TCN. Also, trained visiting researchers on how to CT scan
 - Oversee live animal care and other day to day tasks
 - Currently involved with multiple research projects in the lab
- Advisors: Dr. Adam Summers and Dr. Luke Tornabene
- 2018 – 2019 Capstone Student, University of Washington, Seattle, WA
- Combined functional morphology with comparative phylogenetic methods to assess the co-evolution of cleaning and morphology in Caribbean neon gobies.
- Advisor: Dr. Luke Tornabene
- Summer 2018 NSF-REU Intern, Smithsonian National Museum of Natural History Washington, DC
- Constructed a large morphological data set to examine patterns of ecomorphological diversification in mainland *Draconura* clade anoles.
- Advisors: Dr. Kevin de Queiroz and Dr. Ivan Prates
- Summer 2017 Student Researcher, Friday Harbor Laboratories, Friday Harbor, WA
- Used micro-CT scans and geometric morphometrics to examine the feeding morphology and body shape of a specialized guild of rheophilic herbivores
- Advisors: Dr. Adam Summers and Dr. Matthew Kolmann
- Spring 2017 Student Researcher, Friday Harbor Laboratories, Friday Harbor, WA

- Coupled micro-CT scanning with iodine-contrast staining to compare the ontogeny of jaw biomechanics in scale-feeding fishes using

Advisor: Dr. Matthew Kolmann

2016 – 2017 Research Assistant, University of Washington, Seattle, WA

- Assessed the effects of ocean acidification on the tensile strength of mussel byssal threads

Advisor: Dr. Matt George

PUBLICATIONS

Huie, J.M., Thacker, C., Tornabene, L. (*in review*). Co-evolution of cleaning and feeding morphology in Caribbean and eastern Pacific gobies. *Evolution*.

Huie, J.M., Summers, A.P., Kolmann, M.A. (2019). Body shape separates guilds of rheophilic herbivores (Myleinae: Serrasalmidae) better than feeding morphology. *Proceedings of the Academy of Natural Sciences in Philadelphia*.

George, M.N., Andino, J., **Huie, J.M.**, Carrington, E. (*in press*). Microscale pH and dissolved oxygen excursions within mussel raft aggregations: implications for byssal thread adhesion and mussel attachment. *Journal of Shellfish Research*.

Kolmann, M.A., **Huie, J.M.**, Evans, K.M., Summers, A.P. (2018). Specialized specialists and the narrow niche fallacy: a tale of scale-feeding fishes. *Royal Society open science*, 5(1), 171581.

PRESENTATIONS

*Awarded best student presentation

2019 **Huie, J.M.**, Tornabene, L. Co-evolution of cleaning and morphology in Caribbean neon gobies. Joint Meeting for Ichthyologist and Herpetologists, Snowbird, UT. July 2019. Oral presentation.

2019 **Huie, J.M.**, Prates, I., Bell, R.C., de Queiroz, K. Morphological diversification of mainland *Draconura* clade anoles. Evolution, Providence, RI. June 2019. Oral Presentation.

2019 **Huie, J.M.**, Tornabene, L. Co-evolution of morphology and cleaning in Caribbean cleaner gobies. University of Washington Undergraduate Research Symposium, Seattle, WA. May 2019. Oral presentation.

2019 **Huie, J.M.**, Summers, A.P., Kolmann, M.A. Body shape and feeding morphology explain ecological differences in riverine herbivorous fishes. Society for

Integrative and Comparative Biology, Tampa, FL. January 2019. Poster presentation.

- 2018 ***Huie, J.M.**, Evans, K.M., Summers, A.P., Kolmann, M.A. Diversity of tooth form and function in scale-feeding fishes. Gilbert Ichthyological Society, Blue River, OR. October 2018. Oral Presentation.
- 2018 **Huie, J.M.**, Prates, I., Bell, R.C., de Queiroz, K. Morphological and ecological diversity of mainland *Draconura* clade anoles. National Museum of Natural History, Smithsonian Institution, Washington, D.C. August 2018. Poster presentation.
- 2018 **Huie, J.M.**, Summers, A.P., Kolmann, M.A. Are all herbivores created equal? Linking diet and morphology in phytophagous pacus. University of Washington Undergraduate Research Symposium, Seattle, WA. May 2018. Oral presentation.
- 2018 Kolmann, M.A., **Huie, J.M.**, Evans, K.M., Summers, A.P. View to a keel: aggression, armor, and scale-feeding in piranhas. Society for Integrative and Comparative Biology, San Francisco, CA. January 2018. Oral presentation.
- 2018 **Huie, J.M.**, Evans, K.M., Summers, A.P., Kolmann, M.A. Ontogeny of jaw biomechanics in lepidophagous fishes. Society for Integrative and Comparative Biology, San Francisco, CA. January 2018. Poster presentation.

AWARDS & SCHOLARSHIPS

- 2019 UW Undergraduate Research Conference Travel Award – Evolution (\$563)
- 2018 UW Undergraduate Research Conference Travel Award – SICB (\$573)
- 2018 Best Student Presentation, Gilbert Ichthyological Society
- 2018 Levinson Emerging Scholars Award (\$7,000)
- 2018 Melvin Anderson Memorial Scholarship (\$2,000)
- 2018 NSF Research Experience for Undergraduates (REU) at the Smithsonian National Museum of Natural History (\$6,000)
- 2018 Mary Gates Research Scholarship (\$5,000)
- 2017 College of the Environment Student Travel Fund – SICB (\$402)
- 2017 School of Aquatic and Fishery Sciences Travel Award – SICB (\$500)
- 2017 Ellie Dorsey Award (\$200)
- 2017 Wilbert McLeod Chapman Memorial Scholarship (\$1,000)
- 2017 Mary Gates Endowment Scholarship (\$1250)
- 2016 Friday Harbor Laboratories Financial Aid (\$500)
- 2015 UW Purple and Gold Scholarship (\$18,000)
- 2015 Hearing Loss Association Scholarship (\$1,000)

RECENT SERVICE AND OUTREACH

2019 SAFS Open House, University of Washington, Seattle, WA
 2019 Polar Science Weekend Volunteer, Pacific Science Center, Seattle, WA
 2019 Labs Unlocked, UW Burke Fish Collection, Seattle, WA
 2018 – pres. Editor of *FieldNotes*, an undergraduate-run environmental research journal
 2018 – pres. Treasurer for the American Fisheries Society – UW Chapter
 2018 Smithsonian National Museum of Natural History, Outreach Facilitator
 2017 – pres. Vice President of SeaDawgs, the official UW Marine Biology Club
 2017 Scientist in the classroom, Spring Street School, Friday Harbor, WA
 2016 UW marine biology class (BIOL 250), Fieldtrip Facilitator
 2016 – 2017 Intern at Coastal Observation and Seabird Survey Team
 2016, 2017 Open house volunteer at Friday Harbor Laboratories, Friday Harbor, WA
 2016 Scientist in the classroom, Friday Harbor Elementary, Friday Harbor, WA
 2016 Scientist in the classroom, Stillpoint School, Friday Harbor, WA

SKILLS

R Programming, CT scanning, geometric morphometrics, Geneious, phylogenetic comparative methods, Python, Adobe Software, and MS Office.

PROFESSIONAL AFFILIATIONS

2019 – pres. Society for the Study of Evolution
 2019 – pres. American Society of Ichthyologists and Herpetologists
 2018 – pres. Gilbert Ichthyological Society
 2017 – pres. Society for Integrative and Comparative Biology; DCB, DVM
 2017 – pres. PADI Open Water