

## Jonathan M. Huie

Friday Harbor Laboratories  
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### EDUCATION

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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

### ACADEMIC EXPERIENCE

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- 2019 – pres. Lab Technician, Friday Harbor Laboratories, Friday Harbor, WA
- Generate micro-CT data for oVert, upload scans to MorphoSource.org, train visiting researchers on the equipment, live animal care, and oversee high school and undergraduate students
- Advisors: Dr. Adam Summers and Dr. Luke Tornabene
- 2019 Curatorial Assistant, UW Burke Fish Collection, Seattle, WA
- Catalogued and organized specimen lots, collected tissue samples, and participated in outreach events
- Advisor: Dr. Luke Tornabene
- 2018 – 2019 Capstone Student, University of Washington, Seattle, WA
- Combined functional morphology with comparative phylogenetic methods to investigate the evolution and adaptations of cleaner 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 scanning 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
- 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

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**Huie, J.M.**, Thacker, C.E., Tornabene, L. (2019). Co-evolution of cleaning and feeding morphology in western Atlantic and eastern Pacific gobies. *Evolution*, 74(2), 419-433.

George, M.N., Andino, J., **Huie, J.M.**, Carrington, E. (2019). Microscale pH and dissolved oxygen fluctuations within mussel aggregations and their implications for mussel attachment and raft aquaculture. *Journal of Shellfish Research*, 38(3), 795-809.

**Huie, J.M.**, Summers, A.P., Kolmann, M.A. (2019). Body shape separates guilds of rheophilic herbivores (Myleinae: Serrasalminidae) better than feeding morphology. *Proceedings of the Academy of Natural Sciences in Philadelphia*, 166(1), 1-15.

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.

## INVITED SEMINARS

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- 2019 **Huie, J.M.** Heroes and villains: Using microCT to study the evolution of interspecific relationships in fishes. Friday Harbor Labs, Friday Harbor, WA. December 4.

## PRESENTATIONS

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\*Awarded best student presentation

- 2020 **Huie, J.M.**, Thacker, C., Tornabene, L. Co-evolution of cleaning and morphology in Caribbean and eastern Pacific gobies. Society for Integrative and Comparative Biology, San Francisco, CA. January 3-7. Oral Presentation.

- 2020 Kolmann, M.A., Hughes, L.C., Evans, K., **Huie, J.M.**, Orti, G., Hernandez, L.P. Carnivorous grazers? How to build scale-feeding and fin-feeding fishes from less egregious relatives. Society for Integrative and Comparative Biology, San Francisco, CA. January 3-7. Oral Presentation.
- 2019 **Huie, J.M.**, Thacker, C., Tornabene, L. Co-evolution of cleaning and morphology in Caribbean and eastern Pacific gobies. Gilbert Ichthyological Society, Eatonville, WA. September 20-22. Oral 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 24-28. 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 21-25. 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 17. 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 3-7. 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 5-7. 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 2. 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 18. 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 3-7. Oral presentation.
- 2018 **Huie, J.M.**, Evans, K., Summers, A.P., Kolmann, M.A. Ontogeny of jaw biomechanics in lepidophagous fishes. Society for Integrative and Comparative Biology, San Francisco, CA. January 3-7. Poster presentation.

## AWARDS & SCHOLARSHIPS

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- 2019 Friday Harbor Laboratories Student SICB Travel Funds – SICB (\$250)
- 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 (\$1,250)
- 2016 Friday Harbor Laboratories Financial Aid (\$500)
- 2015 Hearing Loss Association Scholarship (\$1,000)

## RECENT SERVICE AND OUTREACH

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- 2019 – pres. Train high school and undergraduate students at Friday Harbor Labs
- 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 – 2019 Editor of *FieldNotes*, an undergraduate-run environmental research journal
- 2018 Outreach facilitator at the Smithsonian National Museum of Natural History
- 2017 – 2019 Vice President of SeaDawgs, the official UW Marine Biology Club
- 2017 Scientist in the classroom, Spring Street School, Friday Harbor, WA
- 2016 Fieldtrip leader for UW marine biology class (BIOL 250)
- 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

## PROFESSIONAL AFFILIATIONS

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- 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