

# 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.    Marine Technician, Friday Harbor Laboratories, Friday Harbor, WA

- Generate micro-CT data for oVert, upload scans to MorphoSource.org, train visiting researchers on the equipment, and live animal care
- Currently involved with multiple research projects in the lab

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., Tornabene, L. (*Accepted*). Co-evolution of cleaning and feeding morphology in the western Atlantic and eastern Pacific gobies. *Evolution*.

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*.

**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*.

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.

## 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. Poster presentation.

## **AWARDS & SCHOLARSHIPS**

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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 <i>FieldNotes</i> , 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