

# Jonathan Michael Huie

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## EDUCATION

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- 2020 – pres. Ph.D. student in Biology (emphasis on systematics, evolution, and ecology)  
George Washington University, Washington, DC  
Advisor: Dr. Sandy Kawano
- 2015 – 2019 B.S. in Aquatic and Fishery Sciences & Marine Biology Double Major  
University of Washington, Seattle, WA  
Advisor: Dr. Luke Tornabene

## PROFESSIONAL POSITIONS

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- 2021 – pres. Graduate Student Fellow, Smithsonian National Museum of Natural History
- 2020 – pres. NSF Graduate Research Fellow, George Washington University
- 2019 – 2020 Micro-CT Lab Technician, Friday Harbor Laboratories

## PEER-REVIEWED PUBLICATIONS (U = undergraduate student)

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7. **Huie JM**, Summers AP, Kawano SM. 2022. SegmentGeometry: a tool for measuring second moment of area in 3D Slicer. *Integrative Organismal Biology*. [doi.org/10.1093/iob/obac009](https://doi.org/10.1093/iob/obac009)
6. Woodruff EC<sup>U</sup>, **Huie JM**, Summers AP, Cohen KE. 2022. Pacific Spiny Lump sucker armor - development, damage, and defense in the intertidal. *Journal of Morphology* 283(2): 164-173. [doi.org/10.1002/jmor.21435](https://doi.org/10.1002/jmor.21435)
5. **Huie JM**, Prates I, Bell RC, de Queiroz K. 2021. Convergent patterns of adaptive radiation between island and mainland *Anolis* lizards. *Biological Journal of the Linnean Society* 134(1): 85-110. [doi.org/10.1093/biolinnean/blab072](https://doi.org/10.1093/biolinnean/blab072)
4. **Huie JM**, Thacker CE, Tornabene L. 2020. Co-evolution of cleaning and feeding morphology in western Atlantic and eastern Pacific gobies. *Evolution* 74(2): 419-433. [doi.org/10.1111/evo.13904](https://doi.org/10.1111/evo.13904)
3. George MN, Andino J, **Huie JM**, 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. [doi.org/10.2983/035.038.0329](https://doi.org/10.2983/035.038.0329)
2. **Huie JM**, Summers AP, Kolmann MA. 2019. Body shape separates guilds of rheophilic herbivores (Myleinae: Serrasalminae) better than feeding morphology. *Proceedings of the Academy of Natural Sciences in Philadelphia* 166(1): 1-15. [doi.org/10.1635/053.166.0116](https://doi.org/10.1635/053.166.0116)
1. Kolmann MA, **Huie JM**, Evans KM, Summers AP. 2018. Specialized specialists and the narrow niche fallacy: a tale of scale-feeding fishes. *Royal Society open science* 5(1): 171581. [doi.org/10.1098/rsos.171581](https://doi.org/10.1098/rsos.171581)

## PUBLICATIONS IN REVIEW AND IN PREP

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1. **Huie JM**, Summers AP. *In review*. The effects of soft and rough substrates on suction-based adhesion. *Journal of Experimental Biology*.
2. Brodnicke OB, Hansen CE, **Huie JM**, Brandl S, Worsaae K. *In prep*. Trophic morphology and the functional impact of small, sand-sifting fish on coral reefs. *Functional Ecology*.

## RESEARCH GRANTS, FELLOWSHIPS, AND AWARDS

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- 2021 George Washington University Student Travel Funds – SICB (\$515)

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- 2021 Wilbur V. Harlan Research Fellowship **(\$7,000)**
- 2020 NSF Graduate Research Fellowship **(\$138,000)**
- 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 REU Internship 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 Friday Harbor Labs Ellie Dorsey Best Student Presentation 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)**

## TEACHING EXPERIENCE

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- 2021 **Guest Instructor:** Mid-Atlantic Funky Morph Users Group, Intro to 3D Slicer (1 session)
- 2021 **Teaching Assistant:** George Washington University, BISC 3123, Human Physiology Lab (1 semester)
- 2020 **Teaching Assistant:** George Washington University, BISC 1111, Intro Biology Lab (1 semester)
- 2016 **Field Trip Leader,** University of Washington, BIOL 250, Marine Biology (1 quarter)

## MUSEUM AND FIELD EXPERIENCE

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- 2021 – pres. Collection of salamanders in the field (Virginia)
- 2021 Visiting Researcher, University of Washington Friday Harbor Laboratories
- 2019 Visiting Researcher, Harvard Museum of Comparative Zoology
- 2018 Visiting Researcher, UC Berkeley Museum of Vertebrate Zoology
- 2018 Visiting Researcher, California Academy of Sciences
- 2018, 2019 Visiting Researcher, Smithsonian National Museum of Natural History

## INVITED SEMINARS AND PRESENTATIONS

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- 2021 **Huie JM.** The evolution of habitat and morphology in amphibians and reptiles. Smithsonian National Museum of Natural History, Vertebrate Zoology Seminar. Washington, DC.
- 2021 **Huie JM.** Scale scrapers & parasite pickers: many ways to build a specialist. Joint Meeting for Ichthyologists and Herpetologists, Invited Symposium Speaker. Phoenix, AZ.
- 2019 **Huie JM.** Heroes and villains: Using microCT to study the evolution of interspecific relationships in fishes. Friday Harbor Labs Fall Seminar Session, Friday Harbor, WA.

## PRESENTATIONS

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- 2022 **Huie JM,** Pyron RA, Kawano SM. The effects of habitat and development on the evolution of salamander limb bones. Society for Integrative and Comparative Biology Annual Meeting. (Oral)

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- 2021 **Huie JM**, Pyron RA, Kawano SM. Do you have a second moment to talk about salamander limbs? George Washington University Harlan Research Symposium. (Poster)
- 2021 **Huie JM**, Hall KC, Summers AP, Conway, K.W. Stick with it: potential convergent evolution of eco-morphotypes in clingfishes. Society for Integrative and Comparative Biology Annual Meeting. *Best student presentation competitor for the Division of Vertebrate Morphology*. (Oral, virtual)
- 2020 **Huie JM**, Tornabene L. A family of thrifty sifters: morphological variation of winnowing gobies. Joint Meeting for Ichthyologists and Herpetologists. Norfolk, VA. (Meeting cancelled due to Covid-19)
- 2020 **Huie JM**, Thacker C, Tornabene L. Co-evolution of cleaning and morphology in Caribbean and eastern Pacific gobies. Society for Integrative and Comparative Biology Annual Meeting, Austin, TX. (Oral)
- 2019 **Huie JM**, Thacker C, Tornabene L. Co-evolution of cleaning and morphology in Caribbean and eastern Pacific gobies. Gilbert Ichthyological Society Annual Meeting, Eatonville, WA. (Oral)
- 2019 **Huie JM**, Tornabene L. Co-evolution of cleaning and morphology in Caribbean neon gobies. Joint Meeting for Ichthyologists and Herpetologists, Snowbird, UT. *Best student presentation competitor for the Frederick H. Stoye Ichthyology Award*. (Oral)
- 2019 **Huie JM**, Prates I, Bell RC, de Queiroz K. Morphological diversification of mainland *Draconura* clade anoles. Evolution Meeting, Providence, RI. (Oral)
- 2019 **Huie JM**, Tornabene L. Co-evolution of morphology and cleaning in Caribbean cleaner gobies. University of Washington Undergraduate Research Symposium, Seattle, WA. (Oral)
- 2019 **Huie JM**, Summers AP, Kolmann MA. Body shape and feeding morphology explain ecological differences in riverine herbivorous fishes. Society for Integrative and Comparative Biology, Tampa, FL. (Oral)
- 2018 **Huie JM**, Evans KM, Summers AP, Kolmann MA. Diversity of tooth form and function in scale-feeding fishes. Gilbert Ichthyological Society Annual Meeting, Blue River, OR. (Oral) Won best student presentation
- 2018 **Huie JM**, Prates I, Bell RC, de Queiroz K. Morphological and ecological diversity of mainland *Draconura* clade anoles. National Museum of Natural History NSF REU Research Symposium, Washington, D.C. (Poster)
- 2018 **Huie JM**, Summers AP, Kolmann MA. Are all herbivores created equal? Linking diet and morphology in phytophagous pacus. University of Washington Undergraduate Research Symposium, Seattle, WA. (Oral)
- 2018 **Huie JM**, Evans K, Summers AP, Kolmann MA. Ontogeny of jaw biomechanics in lepidophagous fishes. Society for Integrative and Comparative Biology Annual Meeting, San Francisco, CA. (Poster)

## CO-AUTHORED PRESENTATIONS (U = undergraduate student)

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- 2022 Heiple Z<sup>U</sup>, **Huie JM**, Goatley C, Arcila D, Miller EC. The diversity of deep sea anglerfishes: describing trends in cranial and tooth morphologies. Society for Integrative and Comparative Biology Annual Meeting, Phoenix, AZ. (Poster)
- 2022 Woodruff EC<sup>U</sup>, **Huie JM**, Summers AP, Cohen KE. *In review*. Morphology, ontogeny, and investment of the abrasion resistant lumpsucker armor. Society for Integrative and Comparative Biology Annual Meeting, Phoenix, AZ. (Poster)

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- 2021 Wagner M, Real P, Koblmüller S, **Huie JM**, Svoldal H. Parallel evolution and genomics of adaptations in interstitial clingfishes. Network of Biological Systematics Austria Annual Meeting. (Oral, virtual)
- 2021 Kolmann MA, MacLeod L, Racy JM, **Huie JM**, Donatelli CM, Summers AP. Carnivorous Grazers Part Deux! Form and function in scale-feeding and fin-feeding Neotropical fishes. Joint Meeting for Ichthyologists and Herpetologists. Phoenix, AZ. (Oral, virtual)
- 2021 Palecek-McClung AM, **Huie JM**, Cohen KE, Donatelli CD, Summers AP. Stuck on you: How pelvic girdle morphology influences adhesion. Society for Integrative and Comparative Biology. (Poster, virtual)
- 2020 Kolmann MA, Hughes LC, Evans K, **Huie JM**, Orti G, Hernandez LP. Carnivorous grazers? How to build scale-feeding and fin-feeding fishes from less egregious relatives. Society for Integrative and Comparative Biology Annual Meeting, Austin, TX. (Oral)
- 2018 Kolmann, MA, **Huie JM**, Evans KM, Summers AP. View to a keel: aggression, armor, and scale-feeding in piranhas. Society for Integrative and Comparative Biology Annual Meeting, San Francisco, CA. (Oral)

## ACADEMIC SERVICE

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- 2021 Panelist for George Washington University CCAS Info Session on NSF GRFP
- 2021 Panelist for California Academy of Sciences REU Info Session on Grad School
- 2021 Co-organizer of the Mid-Atlantic Funky Morph Users Group
- 2020 – pres. Outreach Associate, *Integrative Organismal Biology* (SICB)
- How to win a game of tag: lizard edition (blog post)
  - You can't stop the (heart) beat! (blog post)
  - Walk with your tail, not your legs (blog post)
- 2020 Panelist for Friday Harbor Labs REU Info Session on Grad School
- 2019 – 2020 Trained researchers how to micro-CT scan at Friday Harbor Labs, WA
- 2018 – 2019 Editor of *FieldNotes*, an undergraduate-run research journal

## PEER-REVIEWER

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Reviewer for: *Journal of Zoology* (1)

## OUTREACH

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- 2019 Polar Science Weekend volunteer, Pacific Science Center, Seattle, WA
- 2019 *Labs Unlocked*, UW Burke Fish Collection, Seattle, WA
- 2019 SAFS Open House volunteer, University of Washington, Seattle, WA
- 2018 *Scientist Is In*, Smithsonian National Museum of Natural History, Washington, DC
- 2016 – 2017 Intern, Coastal Observation and Seabird Survey Team, Seattle, WA
- 2017 Scientist in the classroom, Spring Street School, Friday Harbor, WA
- 2016, 2017 Open House volunteer, 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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- 2017 – pres. Society for Integrative and Comparative Biology; DCB, DVM
- 2019 – 2021 Society for the Study of Evolution
- 2019 American Society of Ichthyologists and Herpetologists
- 2018 – 2020 Gilbert Ichthyological Society
- 2017 – pres. PADI Open Water

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Last updated: 3/12/2022