

Jonathan Michael Huie

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EDUCATION

- 2020 – 2025 Ph.D. in Biological Sciences (emphasis on systematics, evolution, and ecology)
The 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

- 2021 – pres. Graduate Student Fellow, Smithsonian National Museum of Natural History
- 2020 – 2025 NSF Graduate Research Fellow, George Washington University
- 2019 – 2020 Micro-CT Lab Technician, Friday Harbor Laboratories

PEER-REVIEWED PUBLICATIONS (U = undergraduate student; * = Co-first authorship)

21. [in press]. Arnette SD, Donatelli CM, Rosen, J, Hawkins OH, **Huie JM**. Clinging for shear life: active input improves adhesion in the northern clingfish. *Integrative and Comparative Biology*.
20. **Huie JM**, Arnette SD, Evans AJ, Cohen KE, Buser TJ, Crawford CC, Kane EA, Kolmann MA. 2025. Behavioral novelties and morphological exaptation underlie trophic novelty in an anemone-feeding fish. *Journal of Zoology*.
19. Carr EM, Martin RP, Thurman MM, Cohen KE, **Huie JM**, Gruber DF, Sparks JS. 2025. Repeated and widespread evolution of biofluorescence in marine fishes. *Nature Communications*, 16(1), 1-10.
18. Crawford CH, Yadav S, **Huie JM**, Kane EA. 2025. Stop, chomp, and roll: rotational feeding behavior in marine sculpins. *Northwestern Naturalist*, 105(1):54-58.
17. Evans AJ, Egan JP, **Huie JM**, Hernandez LP. 2025. Comparative anatomy of otomorph an epibranchial organs. *The Anatomical Record*, 1-23.
16. Kawano SM, Martin J, Medina J, Doherty C, Zheng G, Hsiao E, Evans MJ, de Queiroz K, Pyron RA, **Huie JM**, Lima R, Langan EM, Peters A, Irschick DJ. 2024. Applying 3D models of giant salamanders to explore form-function relationships in early digit-bearing tetrapods. *Integrative and Comparative Biology*, icae129.
15. Cohen KE, Fitzpatrick A^U, **Huie JM**. 2024. *Dental Dynamics*: a fast new tool for quantifying tooth and jaw biomechanics in 3D Slicer. *Integrative Organismal Biology*, 6(1): obae015.
14. de Queiroz K, **Huie JM**, Hammel JU, Müller P, Baranov P. 2024. A New Fossil Anolis Lizard in Hispaniolan Amber: Ecomorphology and Systematics. *Journal of Herpetology*, 58(1): 1-8.
13. Hoover RC, Hawkins OH, Rosen J, Wilson CD, Crawford CH, Holst M, **Huie JM**, Summers AP, Donatelli CM, Cohen KE. 2023. It pays to be bumpy: drag reducing armor in the Pacific

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spiny lump sucker, *Eumicrotremus orbis*. [Integrative and Comparative Biology](#), 63(3): icad076.

12. Heiple Z^U, **Huie JM**, Medeiros APM, Hart PB, Goatley CHR, Arcila D, Miller EC. 2023. Many ways to build an angler: An analysis of feeding morphologies in a radiation of deep-sea fishes. [Biology Letters](#), 19: 20230049.
11. de Queiroz K, **Huie JM**, Langan EM. 2023. No longer in doubt: discovery of a second specimen corroborates the validity of *Anolis incredulus* Garrido and Moreno 1998 (Reptilia, Iguania). [Zootaxa](#), 5284(1): 121-141.
10. **Huie JM***, Wainwright DK*, Summers AP, Cohen KE. 2022. Sticky, stickier, and stickiest: a comparison of adhesive performance in clingfish, lump suckers, and snailfish. [Journal of Experimental Biology](#), 225(22): jeb244821.
9. Brodnicke OB*, Hansen CE*, **Huie JM**, Brandl S, Worsaae K. 2022. Trophic morphology and the functional impact of small, sand-sifting fish on coral reefs. [Functional Ecology](#), 36: 1936-1948.
8. **Huie JM**, Summers AP. 2022. The effects of soft and rough substrates on suction-based adhesion. [Journal of Experimental Biology](#), 225(9): jeb243773.
7. **Huie JM**, Summers AP, Kawano SM. 2022. SegmentGeometry: a tool for measuring second moment of area in 3D Slicer. [Integrative Organismal Biology](#), 4(1): 1-10.
6. Woodruff EC^U, **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.
5. **Huie JM**, Prates I, Bell RC, de Queiroz K. 2021. Convert patterns of adaptive radiation between island and mainland *Anolis* lizards. [Biological Journal of the Linnean Society](#), 134(1): 85-110.
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.
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.
2. **Huie JM**, Summers AP, Kolmann MA. 2019. Body shape separates guilds of rheophilic herbivores (Myleinae: Serrasalmidae) better than feeding morphology. [Proceedings of the Academy of Natural Sciences in Philadelphia](#), 166(1): 1-15.
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.

PUBLICATIONS IN PROGRESS (U = undergraduate student; * = Co-first authorship)

1. [in review]. **Huie JM**, Pyron RA, Kawano SM. Functional trade-offs and complex life cycles promote limb bone diversity in salamanders. *Proceedings of the National Academy of Sciences*.

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2. [in review]. **Huie JM**, Park G^U, Kawano SM. Ecomorphology of climbing salamanders reveals a new suite of adaptations. *Proceedings of the Royal Society B: Biological Sciences*.
3. [in prep]. Wagner M, Resl P, Klar N, **Huie JM**, Biasta I, McCarthy S, Smith M, Durbin R, Koblmüller S, Svardal H. The genomics of convergent adaptation to intertidal gravel beaches in Mediterranean clingfishes. *Molecular Biology and Evolution*.
4. [in prep]. Poulin E, Kolmann MA, Stiassny MLJ, Cohen KE, **Huie JM**, Chabain J, Martinez CM. Stingray spine diversity reflects performance trade-offs linked to puncture and breakability. *Proceedings of the Royal Society B: Biological Sciences*.

BOOK CHAPTERS

1. [in press]. Kolmann MA, Bonato K, Evans KM, **Huie JM**, Malabarba L. Ecological diversity of Neotropical ectoparasitic fishes in *Ecology and Evolution of Amazonian Fishes*.

RESEARCH AWARDS AND FELLOWSHIPS (total: \$169,532)

- | | | |
|------|--|--------------------|
| 2024 | Stephen and Ruth Wainwright Endowment Fellowship | (\$1898) |
| 2023 | American Society for Ichthyology and Herpetology Gaige Fund Award | (\$600) |
| 2023 | Washington Biology Field Club Research Award | (\$2534) |
| 2022 | Stephen and Ruth Wainwright Endowment Fellowship | (\$1500) |
| 2021 | Wilbur V. Harlan Research Fellowship | (\$7,000) |
| 2020 | NSF Graduate Research Fellowship | (\$138,000) |
| 2018 | Levinson Emerging Scholars Award | (\$7,000) |
| 2018 | NSF REU Internship at the Smithsonian National Museum of Natural History | (\$6,000) |
| 2018 | Mary Gates Research Scholarship | (\$5,000) |

TRAVEL GRANTS AND SCHOLARSHIPS (total: \$8,038)

- | | | |
|------|---|------------------|
| 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 | Melvin Anderson Memorial Scholarship | (\$2,000) |
| 2017 | College of the Environment Student Travel Fund – SICB | (\$402) |
| 2017 | School of Aquatic and Fishery Sciences Travel Award – SICB | (\$500) |
| 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) |

HONORS AND AWARDS

- | | |
|------|---|
| 2025 | Nominated into the Edward A. Bouchet Honor Graduate Society |
| 2024 | Best Student Presentation Seibert Award, SSAR Annual Meeting |
| 2022 | American Microscopical Society Photomicrograph Contest (micro-CT) |
| 2018 | Best Student Presentation, Gilbert Ichthyological Society |
| 2017 | Friday Harbor Labs Ellie Dorsey Best Student Presentation Award |

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TEACHING EXPERIENCE

Workshop Instructor

2024 Developed a two day workshop for 3D Slicer, The George Washington University

Guest Lecturer

- 2024 Functional Morphology and Ecology of Marine Fishes (FHL 528), Friday Harbor Laboratories (1 lecture on kinematics, 1 lecture on fish feeding)
2021 Intro to 3D Slicer, Mid-Atlantic Funky Morph Users Group (1 session)
2016 Marine Biology (BIOL 250), University of Washington (1 lecture of beached birds)

Teaching Assistant

- 2021 Human Physiology Lab (BISC 3123), The George Washington University (1 semester)
2020 Intro Biology Lab: Cells and Molecules (BISC 1111), The George Washington University (1 semester)

INVITED SEMINARS

- 2025 **Huie JM**, Cohen KE. Ecomorphology in 3D: developing faster tools to study evolutionary morphology. Joint Meeting for Ichthyologists and Herpetologists, Invited Symposium Speaker. St. Paul, MN.
- 2023 **Huie JM**. Best of both worlds: morphological adaptations in fishes and salamanders. SUNY Geneseo Biology Seminar Series, Rochester, NY.
- 2023 **Huie JM**. Best of both worlds: biomechanical adaptations in fishes and salamanders. 2023. The George Washington University Biology Department Seminar Series, Washington, DC.
- 2022 **Huie JM**. Evolutionary form and function across ecological gradients. California State University, Long Beach Biology Seminar Series. Long Beach, CA. (virtual)
- 2022 **Huie JM**. Evolutionary form and function across ecological gradients. Wake Forest University Seminar Series. Winston-Salem, NC.
- 2021 **Huie JM**. The evolution of habitat and morphology in amphibians and reptiles. Smithsonian National Museum of Natural History, Vertebrate Zoology Seminar. Washington, DC. (virtual)
- 2021 **Huie JM**. Scale scrapers & parasite pickers: many ways to build a specialist. Joint Meeting for Ichthyologists and Herpetologists, Invited Symposium Speaker. Phoenix, AZ. (virtual)
- 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 (Total = 21)

- 2025 **Huie JM**, Pyron RA, Kawano SM. Toe tips and tricks: climbing kinematics and morphology of Aneides salamanders. Society for Integrative and Comparative Biology Annual Meeting, Atlanta, GA. (Oral) *Finalist in best student presentation competition for the Division of Comparative Biomechanics*

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- 2024 **Huie JM**, Pyron RA, Kawano SM. Climbing kinematics and morphology of *Aneides* salamanders. Society for the Study of Amphibians and Reptiles Annual Meeting, Ann Arbor, MI. (Oral) Won best student presentation
- 2024 **Huie JM**, Pyron RA, Kawano SM. Locomotor kinematics and morphology of climbing *Aneides* salamanders. Society for Integrative and Comparative Biology Annual Meeting, Seattle, WA. (Oral)
- 2023 **Huie JM**, Pyron RA, Kawano SM. Climbing kinematics and ecomorphology of *Aneides* salamanders. International Congress of Vertebrate Morphology, Cairns, Australia. (Oral)
- 2023 **Huie JM**, Cohen KE. Cutting corners: a new tool for measuring functional homodonty in 3D Slicer. International Congress of Vertebrate Morphology, Cairns, Australia. (Poster)
- 2023 **Huie JM**, Crawford CH, Kane EA, Evans A, Cohen KE, Buser TJ, Kolmann MA. The enemy of your anemone: feeding kinematics and biomechanics of a narrow niche cnidarian nibbler. Society for Integrative and Comparative Biology Annual Meeting, Austin, TX. (Oral, in-person & virtual)
- 2023 **Huie JM**, Wainwright DK, Summers AP, Cohen KE. A sticky ichthy trinity: adhesive performance in clingfish, lumpsuckers, and snailfish. Society for Integrative and Comparative Biology Annual Meeting, Austin, TX. (Poster, in-person & virtual)
- 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, Phoenix, AZ. (Oral, in-person & virtual)
- 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. (Oral, virtual) Finalist in best student presentation competition for the Division of Vertebrate Morphology
- 2020 **Huie JM**, Tornabene L. A family of thrifty sifters: morphological variation of winnowing gobies. Joint Meeting for Ichthyologists and Herpetologists. Norfolk, VA. (Meeting canceled 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. (Oral) Finalist for best student presentation competition for the Frederick H. Stoye Ichthyology Award
- 2019 **Huie JM**, Prates I, Bell RC, de Queiroz K. Morphological diversification of mainland *Draconura* clade anoles. Evolution Meeting, Providence, RI. (Oral)

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- 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 (Total = 22; U = undergraduate student)

- 2025 Harner A, **Huie JM**, Donatelli CD, AutoVert: Semi-Automatic segmentation of repeated structures in 3D Slicer. Society for Integrative and Comparative Biology Annual Meeting, Atlanta, GA. (Poster)
- 2025 Arnette S, Donatelli CD, Hawkins OH, Rose J, **Huie JM**. Clinging for shear life: modulation of suction performance in the northern clingfish. Society for Integrative and Comparative Biology Annual Meeting, Atlanta, GA. (Poster)
- 2025 Eno CT, Ko H, El Khoury C, Montalvo M, Truman S, Donatelli CD, Flammang BE, **Huie JM**. Active tail modulation in snailfishes reduces drag. Society for Integrative and Comparative Biology Annual Meeting, Atlanta, GA. (Oral)
- 2025 Borruso S, **Huie JM**, Vandenberg ML, Hawkins OH, Donatelli CM, Short G. Scaling of head morphology and the four bar linkage in seahorses (*Hippocampus*). Society for Integrative and Comparative Biology Annual Meeting, Atlanta, GA. (Oral)
- 2024 Crawford CH, Yadav S, **Huie JM**, Kane EA. Stop, Chomp, and Roll: Rotational feeding behavior in marine sculpins. Society for Integrative and Comparative Biology Annual Meeting, Seattle, WA. (Oral)
- 2024 Naylor ER, **Huie JM**, Pyron RA, Kawano SM. Phylogeographic variation in the standard metabolic rates of dusky salamanders (*Desmognathus*). Society for Integrative and Comparative Biology Annual Meeting, Seattle, WA. (Oral)
- 2024 Kawano SM et al. Applying 3D models of giant salamanders to explore form-function relationships in early tetrapods. Society for Integrative and Comparative Biology Annual Meeting, Seattle, WA. (Oral)

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- 2024 Harner A^U, Kahane-Rapport SR, **Huie JM**, Donatelli CM. Fractals and Filters: Using fractal analysis to describe function in filter feeders. Society for Integrative and Comparative Biology Annual Meeting, Seattle, WA. (Oral)
- 2023 Wagner M, Respl P, Koblmüller S, **Huie JM**, Svardal H. High levels of morphological and genomic parallelism in the interstitial clingfish genus *Gouania*. European Ichthyological Society, Prague, Czech Republic. (Oral)
- 2023 Quigley ZMG, **Huie JM**, Pyron RA, Kawano SM. Kinematic variation in ecologically diverse *Desmognathus* salamanders during terrestrial locomotion. Society for Integrative and Comparative Biology Annual Meeting, Austin, TX. (Oral)
- 2023 Lungstrom LL, Westneat MW, **Huie JM**, Kolmann MA, Cohen KE. Sink your teeth into the puncture performance of a payara pendulum. Society for Integrative and Comparative Biology Annual Meeting, Austin, TX. (Oral)
- 2023 Drupta S^U, Donatelli CM, Summers AP, **Huie JM**, Cohen KE. The Hardest Part is Letting Go: Shear Adhesion in the Northern Clingfish. Society for Integrative and Comparative Biology Annual Meeting, Austin, TX. (Oral)
- 2023 Poulin E, **Huie JM**, Chabain JJ, Cohen KE, Kolmann MA, Martinez CM. Making a point: exploring the form and function of stingray spines. Society for Integrative and Comparative Biology Annual Meeting, Austin, TX. (Oral)
- 2023 Hoover RC, Hawkins O, Rosen J, Wilson C, Crawford CH, Holst M, **Huie JM**, Summers AP, Donatelli CM, Cohen KE. The hydrodynamic cost of armor and its tradeoff with adhesion across ontogeny in *E. orbis*. Society for Integrative and Comparative Biology Annual Meeting, Austin, TX. (Oral)
- 2022 Heiple Z^U, **Huie JM**, Hart P, Goatley C, Arcila D, Miller EC. Many ways to build an angler: An analysis of feeding morphologies in deep sea anglerfishes (Ceratioidei: Lophiiformes). Joint Meeting for Ichthyologists and Herpetologists, Spokane, WA. (Oral)
- 2022 Heiple Z^U, **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^U, **Huie JM**, Summers AP, Cohen KE. Morphology, ontogeny, and investment of the abrasion resistant lumpsucker armor. Society for Integrative and Comparative Biology Annual Meeting, Phoenix, AZ. (Poster)
- 2021 Wagner M, Real P, Koblmüller S, **Huie JM**, Svardal 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)

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- 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)

MUSEUM AND FIELD EXPERIENCE

- 2024 Visiting Researcher, North Carolina Science Museum of Natural Sciences
- 2024 Visiting Researcher, UC Berkeley Museum of Vertebrate Zoology
- 2024 Visiting Researcher, California Academy of Sciences
- 2023 Collection of salamanders from Southwest United States (NM)
- 2023 Visiting Researcher, Highlands Biological Station
- 2021 – pres. Collection of salamanders from Southeast United States (VA, NC, TN, KY, WV)
- 2021 – pres. 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

ACADEMIC SERVICE

- 2022 – 2024. President of the GWU Biology Graduate Student Council
- 2023 Reviewer for Conservation Nation Research Grant
- 2022 – pres. Member of the GWU Biology Diversity Equity and Inclusion Committee
- 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 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

Reviewer for: *Journal of Zoology* (1), *Integrative Comparative Biology* (1), *Frontiers in Cell and Developmental Biology* (1), *Journal of Experimental Biology* (1), *Journal of Fish Biology* (1), *Proceedings of the Royal Society B: Biological Sciences* (1), Book Chapters (2)

OUTREACH

- 2023 “Be A Scientist” Volunteer; Highlands Nature Center, Highlands, NC
- 2020 – 2022. 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)

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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

2023 – pres. International Society for Vertebrate Morphology
2017 – pres. Society for Integrative and Comparative Biology; DCB, DVM
2019 – 2022 Society for the Study of Evolution
2019 – pres. American Society of Ichthyologists and Herpetologists

PROFESSIONAL REFERENCES

Sandy M. Kawano, PhD
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Mountain Lake Biological Station
Phone: 562-900-2303
Email: sandy.kawano@gmail.com

Kevin de Queiroz, PhD
National Museum of Natural History
Vertebrate Zoology
Phone: 202-487-0727
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Adam P. Summers, PhD
University of Washington
Friday Harbor Laboratories
Phone: 310-854-1491
Email: fishguy@uw.edu

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