

Anthony Lapsansky

Department of Zoology
University of British Columbia
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EDUCATION AND TRAINING

2021-2023	Postdoctoral Fellow, University of British Columbia, Vancouver, BC Advisors: Douglas Altshuler, Douglas Wylie Research Topic: Visual guidance and neural control of avian flight
2016-2021	Ph.D., University of Montana, Missoula, MT Advisor: Bret Tobalske Dissertation Title: Aquatic locomotion in birds – biomechanics, morphometrics, and evolution
2012-2016	Bachelor of Science, Gonzaga University, Spokane, WA Advisors: Brook Swanson, Peter Pauw Biology with Research Concentration, <i>magna cum laude</i>

GRANTS AND FELLOWSHIPS

Total (USD): \$299,550

2023	Michael Smith Health Research BC, Postdoctoral Fellowship	\$145,000
2021	National Science Foundation, Postdoctoral Fellowship	\$138,000
2021	University of Montana, Bertha Morton Fellowship	\$3,000
2019	Drollinger-Dial Foundation, Travel Award	\$1,500
2018	University of Washington, Stephen and Ruth Wainwright Endowed Fellowship	\$900
2018	Drollinger-Dial Foundation, Travel Award	\$1,500
2017	Montana Space Grant Consortium, Research Fellowship	\$9,650

HONORS AND AWARDS

2021	SICB Division of Biomechanics, Best Student Presentation
2021	SICB Division of Phylogenetics and Comparative Biology, David and Marvalee Wake Award for Best Student Presentation
2017	National Science Foundation, GRFP Honorable Mention
2016	Gonzaga University, McDonald Award for Academic Distinction

PUBLICATIONS

* denotes undergraduate mentee co-author

1. Shah A, Hotaling S, **Lapsansky AB**, Malison R, Birrell J, Keeley T*, Giersch J, Tronstad L, Woods A. Warming undermines emergence success in a threatened alpine stonefly: A multi-trait perspective on vulnerability to climate change. *Functional Ecology* (2023).
2. **Lapsansky AB**, Armstrong RH. Common Mergansers (*Mergus merganser*) use wings to pursue a fish underwater. *Marine Ornithology*. 50, 111–114 (2022).
3. **Lapsansky AB**, Warrick DR, Tobalske BW. High wing-loading correlates with dive performance in birds, suggesting a strategy to reduce buoyancy. *Integrative and Comparative Biology*. 62, 878–889 (2022).
4. **Lapsansky AB**, Zatz D, Tobalske BW. Alcids ‘fly’ at efficient Strouhal numbers in both air and water but vary stroke velocity and angle. *eLife*. 9, e55774 (2020).
5. **Lapsansky AB** & Tobalske BW. Upstroke-based acceleration and head stabilization are the norm for the wing-propelled swimming of alcid seabirds. *J Exp Biol*. 222, jeb201285 (2019).
6. **Lapsansky AB**, Igoe JA*, Tobalske BW. Zebra finch (*Taeniopygia guttata*) shift toward aerodynamically efficient flight kinematics in response to an artificial load. *Biology Open*. 8 (2019).

INVITED PRESENTATIONS

2024	IEEE, International Conference on Robotics and Automation (ICRA), <i>Between sea and sky: Workshop on aerial and aquatic robotics</i> , Yokohama, Japan
2023	University of British Columbia, Evening Comparative Physiology Seminar, Vancouver, BC
2022	University of British Columbia, BRS: Biodiversity Research Seminar, Vancouver, BC
2022	Society for Integrative and Comparative Biology (SICB) Symposium, <i>Lesser known transitions: organismal form and function across abiotic gradients</i> , Phoenix, AZ
2019	Gonzaga University, Biology Seminar Series, Spokane, WA

TEACHING EXPERIENCE

2023	Volunteer Instructor, Northwest Indian College: Salish Sea Research Center Summer Internship
2021	Teaching Assistant, University of Montana, Ornithology
2021	Guest Lecturer, University of Montana, Ornithology
2017-2020	Teaching Assistant, University of Montana, Freshwater Ecology
2018-2020	Teaching Assistant, University of Montana, Comparative Anatomy
2017	Teaching Assistant, University of Montana, Principles of Living Systems
2017	Teaching Assistant, University of Montana, Discover Biology
2015-2016	Teaching Assistant, Gonzaga University, Organic Chemistry
2013-2015	Academic Tutor, Gonzaga University, Athletic Department

STUDENT MENTORSHIP

* denotes co-authored publication

- 2023 Brian Mgbiri, vergence eye movements in hummingbirds
- 2022 Alonso Daboub, spatial position of optic flow and visual guidance of flight in zebra finches
- 2022 Emily Saysanasy, Minda Zhang, Janice Wong, and Dhivya Thiagarajan, *BRC Biodiversity Undergraduates in Research Program*
- 2018 Tylor Keeley*, surface skimming performance of stoneflies reared at variable temperatures
- 2016 Jennifer Igoe*, kinematic responses of zebra finches to artificial loading

COMMUNITY OUTREACH

- 2023 Volunteer Instructor, Northwest Indian College: Salish Sea Research Center Summer Internship (8-weeks, 2 days per week of instruction and mentorship)
- 2019 Lab Docent, Montana Natural History Center: Wings Over Water Program
- 2018 Lab Docent, Montana Natural History Center: Wings Over Water Program
- 2017 Lab Docent, Montana Natural History Center: Wings Over Water Program
- 2016 Presentation, Vista Middle School, *Raptor Biology and Falconry*, Ferndale, WA
- 2016 Volunteer Instructor, Gonzaga University, *Science in Action* with Holmes Elementary School (8 hands-on lessons in science)
- 2015 Presentation, Ferndale High School, *Raptors, Falconry and Bird Abatement: Turning a Passion into a Career*. Ferndale, WA
- 2015 Presentation, Vista Middle School. *Raptors, Falconry and Bird Abatement*. Ferndale, WA
- 2014 Presentation, Barnyard Kids 4H group, *Falcons and other natural predators: the importance of wildlife to healthy agriculture*. Lynden, WA

PROFESSIONAL DEVELOPMENT

- 2023 University of British Columbia, Equity, Diversity and Inclusion Learning Journey (online course)
- 2020 University of Washington, 3D Morphometrics and Image Analysis Intense Winter Workshop
- 2019 University of Montana, Professional Scientist Skills (semester-long course)
- 2018 University of Montana, Evidence-Based Teaching in Science (semester-long course)
- 2017 University of Montana, Diane Ebert-May Scientific Teaching Workshop
- 2016 University of Montana, Grant Proposal Writing (semester-long course)

SERVICE

University of Montana, Co-President of Graduate Students in Ecology and Evolution (2020-2021)

Society for Integrative and Comparative Biology, Session chairperson (2017-2021)

University of Montana, Seminar Series Organizer (2018-2020)

Reviewer: *Proceedings of the Royal Society B*, *Nature Scientific Reports*, *Animal Behavior*, *Polar Biology*, *Journal of Experimental Biology*, *Journal of Avian Biology*

REFERENCES

Douglas Altshuler
Postdoctoral advisor

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