

ROSS WHIPPO

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EDUCATION

UNIVERSITY OF OREGON
PhD, Biology
Focus: Coastal Trophic Ecology
Advisor: Aaron W.E. Galloway
Coos Bay, OR
Current

UNIVERSITY OF BRITISH COLUMBIA
Master of Science, Zoology
Focus: Marine Community Ecology
Advisor: Mary I. O'Connor
Vancouver, BC
2013/12

UNIVERSITY OF WASHINGTON
Bachelor of Science, Aquatic and Fishery Sciences
Cum Laude, Faculty Honors
Seattle, WA
2011/08

SEATTLE CENTRAL COMM COLLEGE
Associate of Arts
Seattle, WA
2009/08

PROFESSIONAL APPOINTMENTS

SMITHSONIAN INSTITUTION
Research Associate, Tennenbaum Marine Observatories Network
Edgewater, MD
(2018/05-2021/05)

SMITHSONIAN INSTITUTION
Lead Technician, Tennenbaum Marine Observatories Network
Edgewater, MD
(2015/01-2018/05)

HAKAI INSTITUTE
Dive Technician, Kelp and Seagrass Monitoring Team
Calvert Island, BC
(2014/04-2014/09)

UNIVERSITY OF BRITISH COLUMBIA
Graduate Researcher, Department of Zoology
Vancouver, BC
(2011/09-2013/12)

FRIDAY HARBOR LABORATORIES
Dive Technician, Duggins Lab
Friday Harbor, WA
(2011/04-2011/08)

PUBLICATIONS

- de Pablo LX, Lefcheck JS, Harper L, Paul VJ, Jones S, **Whippo R**, Seemann J, Kline DI, Duffy JE (2021). A doubling of stony coral cover on shallow forereefs at Carrie Bow Cay, Belize from 2014 to 2019. *Scientific Reports* 11, 19185
<https://doi.org/10.1038/s41598-021-96799-2>
- Ritter CJ, Harper LM, Lefcheck JS, Paul VJ, **Whippo R**, Jones S, Ogburn MB, Duffy JE (2021). Patterns of consumption across a Caribbean seascape: Roles of habitat and consumer species composition through time. *Frontiers in Marine Science* 8:742907. doi: 10.3389/fmars.2021.742907
- Whalen M, **Whippo R**, (64 additional authors), and Duffy JE (2020). Climate drives the geography of marine consumption by changing predator communities. *PNAS* 117 (45) 28160-28166; DOI: 10.1073/pnas.2005255117.
- Whippo R**, Knight NS, Prentice C, Cristiani J, Siegle MR, and O'Connor MI (2018). Epifaunal diversity patterns within and among seagrass meadows suggest landscape-scale biodiversity processes. *Ecosphere* 9(11):e02490.
10.1002/ecs2.2490
- Staaterman E, Ogburn MB, Altieri AH, Brandl SJ, **Whippo R**, Seemann J, Goodison M, Duffy JE (2017). Bioacoustic measurements complement visual biodiversity surveys: preliminary evidence from four shallow marine habitats. *Marine Ecology Progress Series* 575: 207-215. doi:10.3354/meps12188
- Lowe AT, **Whippo R**, Galloway AWE, Britton-Simmons KH, Dethier MN (2015). Sedentary urchins influence benthic community composition below the macroalgal zone. *Marine Ecology* 36: 129–140. doi:10.1111/maec.12124
- Whippo R** (2013). Seagrass epifaunal communities of Barkley Sound: Epifaunal diversity varies across small spatial and temporal scales (Master's Thesis).
doi:10.13140/RG.2.2.10089.70245

FELLOWSHIPS, GRANTS, AND AWARDS

- PADI Foundation Grant, 2022, \$4750
- Friday Harbor Graduate Research Fellowship, 2022, \$4000
- Friday Harbor Graduate Research Fellowship, 2021, \$2400
- Friday Harbor Graduate Research Fellowship, 2020, \$2359
- Oregon Department of Fish and Wildlife Graduate Scholarship, 2019, \$1500
- Friday Harbor Graduate Research Fellowship, 2019, \$1500
- National Science Foundation - Graduate Research Fellowship, 2018, \$138,000
- Raymund Fellowship, UO, 2018-2019, \$20,000
- Faculty of Science Graduate Award, UBC, 2011, \$2000
- Kevin Flanagan Travel Award, American Academy of Underwater Sciences, 2013, \$800
- Graduate Research Grant, Bamfield Marine Sciences Centre, 2013, \$1500
- Dean's Medal, College of the Environment, UW, 2011
- Faculty Merit Award, School of Aquatic & Fishery Sciences, UW, 2011, \$500
- Mary Gates Endowment Scholarship, UW, 2010, \$2500

OTHER PROFESSIONAL EXPERIENCE

BAMFIELD MARINE SCIENCES CENTRE Asst. Dive and Safety Officer, Marine Operations	Bamfield, BC (2013/05-2013/09)
SEATTLE AQUARIUM Shift Supervisor, Interpretive Staff	Seattle, WA (2008/05-2009/08)

TECHNICAL SKILLS AND CERTIFICATIONS

Scientific Diver (American Academy of Underwater Sciences)
Divemaster (Professional Association of Diving Instructors)
Small Vessel Operator Proficiency (Transport Canada)
Marine Reserve Survey Diver (Oregon Department of Fish and Wildlife)
Reef Life Survey Diver Trainer (Reef Life Survey/University of Tasmania)
CPR & Oxygen Administration (Divers' Alert Network)
Software (R, PRIMER, GCMS PostRun Analysis, Linux, MS Office, Git)

PRESENTATIONS

- 'From the Poles to the Equator: Diving for Marine Ecology' (2021) - oral, University of Washington Stories in Marine Biology Seminar (**Invited**), Seattle, WA, USA
- 'In Search of the Seaweed Forests of Antarctica' (2019) - oral, University of British Columbia BLISS Seminar (**Invited**), Vancouver, BC, Canada
- 'In Search of Seaweeds in Antarctica: A Diver's Journey to the Bottom of the World' (2019) - oral, 7 Devils Science Pub Series (**Invited**), Coos Bay, OR, USA
- 'Macroalgal Communities in Oregon Marine Research Reserves' (2019) - poster, Markham Symposium, Newport, OR, USA
- 'Smithsonian Scientific Diving and the MarineGEO Network' (2018) - oral, Baltimore/D.C. Dive Show (**Invited**), Baltimore, MD, USA
- 'Logistical Realities of Simultaneous, Multi-OM Operations: Challenges and Lessons Learned from Two Case Studies' (2017) - oral, American Academy of Underwater Sciences Symposium, Alpena, MI, USA
- 'Ocean Bitemap: Creating a global map of marine predation' (2016) - oral, American Academy of Underwater Sciences Symposium, Newport, RI, USA
- 'MarineGEO: A global biodiversity network' (2016) - oral, Pelican Resort Science Cafe (**Invited**), Dangriga, Belize
- 'The MarineGEO Network: Integrated ecological observatories for changing marine ecosystems' (2015) - oral, American Academy of Underwater Sciences Symposium, Key West, FL, USA
- 'The MarineGEO Network: Observatories for changing marine ecosystems' (2015) - oral, Pelican Resort Science Cafe (**Invited**), Dangriga, Belize
- 'Invertebrate epifaunal communities are structured by local and regional processes in

- seagrass' (2013) – oral (**Winner – best oral presentation**), American Academy of Underwater Sciences Symposium, Curaçao
- 'Linking local and regional diversity of invertebrate mesograzer communities' (2013) – oral, Ecological Society of America, Minneapolis, MN, USA
- 'The application of metacommunity theory to BC seagrass meadows' (2012) – oral, Pacific Ecology and Evolution Conference, Bamfield, BC, Canada
- 'Benthic community structure mediated by the red sea urchin in the San Juan Archipelago' (2011) - oral, Western Society of Naturalists Conference, Vancouver, WA, USA
- 'Effects of the red sea urchin on benthic invertebrate communities: A link to spatial subsidies' (2011) – oral (**Winner – best oral presentation**), American Academy of Underwater Sciences Symposium, Portland, Maine, USA
- 'Effects of the red sea urchin on benthic invertebrate communities: A link to spatial subsidies' (2011) – poster (**Winner – best poster**), Salish Sea Ecosystem Conference, Vancouver, British Columbia, Canada

TEACHING EXPERIENCE

UNIVERSITY OF OREGON Charleston, OR
 Teaching Assistant, Oregon Institute of Marine Biology (2019/10, 2019/12)
Marine Conservation, 400-level, 10 students supervised. Participated in weekly lecture activities, led field trips, and provided feedback on independent research projects. Graded exams and papers.

UNIVERSITY OF WASHINGTON Friday Harbor, WA
 Teaching Assistant, Friday Harbor Labs (2014/08, 2010/08)
Scientific Diving, 400-level, 6-8 students supervised. Developed curricula for a two-week intensive scientific diving course with the Friday Harbor Laboratories dive safety officer. Supervised divers in training and conducted rescue, task loading and survey technique in-water exercises.

UNIVERSITY OF BRITISH COLUMBIA Vancouver, BC
 Graduate Teaching Assistant, Department of Biology (2011/09-2013/12)
Advanced Ecology, 300-level, 30-40 students supervised. Led weekly lab sessions, graded lab assignments and exams, planned and led monthly field trips, and held office hours for student assistance.

Fundamentals of Ecology, 200-level, 30-40 students supervised. Led weekly lab sessions, graded lab assignments and exams, planned and led monthly field trips, and held office hours for student assistance.

Fundamentals of Genetics, 200-level, 40-50 students supervised. Led weekly lecture sessions, graded assignments and exams, and held office hours for student assistance.

Aquatic Ecology, 400-level, 25 students supervised. Led weekly lab sessions, graded lab assignments and exams, planned and led monthly field trips, and held office hours for student assistance.

UNIVERSITY OF WASHINGTON
Undergraduate Teaching Assistant, SAFS

Seattle, WA
(2011/03-2011/05)

Biology of Shellfish, 300-level, 40-50 students supervised. Assisted with lab activities and delivered select lectures on marine invertebrate biology. Supervised students on field trips, helped develop exams and assignments.

WORKSHOPS

'Introduction to R Analyses', UO, 2019, 2022
'Using Version Control in Research', UO, 2019

UNDERGRADUATES AND INTERNS MENTORED

(graduation year, current status if known)

UO	Ethan Porter-Huges ('22, UO graduate)
Smithsonian	Celina Scott-Buechler ('19, Cornell U. undergrad), Claire Gasque ('19, Dartmouth undergrad), Rachel Wimmer ('16, Communications at Smithsonian)
UBC	Carolyn Prentice ('13, MSc student at SFU), Samantha James ('12, MSc student at UBC), John Cristiani ('09, MSc student at UBC), Frances Ratcliffe ('15, Field Tech, Bangor U.), Nicole Knight ('14, PhD student at McGill U.)

LEADERSHIP AND SERVICE

Secretary, Board of Directors, American Academy of Underwater Sciences Foundation, 2021-Present

Director-at-Large (Scholarships, Standards, Diversity), Board of Directors, American Academy of Underwater Sciences, 2019-2021

Appointed Director (Scholarships), Board of Directors, American Academy of Underwater Sciences, 2018-2019

Advisory Committee, Black Girls Dive Foundation, 2018- Present

Committee Member, American Academy of Underwater Sciences, Membership, Scholarship, and Standards Committees 2012-Present

Science Volunteer, Friday Harbor Elementary, Expert Day, 2011-2012

Dive Presenter, San Juan Island Schools, Diver for a Day, 2011

Education Volunteer, Friday Harbor Elementary, Science Outreach Program, 2009

Volunteer, Seattle Aquarium, Life Sciences and Environmental Interpretation, 2008-2010