

# ROSS WHIPPO

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## EDUCATION

UNIVERSITY OF OREGON PhD, Biology Focus: Coastal Community Ecology	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-Present)
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

**Whippo, R.**, N. S. Knight, C. Prentice, J. Cristiani, M. R. Siegle, and M. I. O'Connor. 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

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  
 Raymond Fellowship, UO, 2018-2019, \$20,000  
 Faculty of Science Graduate Award, UBC, 2011-2012, \$1,000/yr  
 Kevin Flanagan Travel Award, American Academy of Underwater Sciences, 2013, \$800  
 Graduate Research Grant, Bamfield Marine Sciences Centre, 2013, \$1,500  
 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, \$2,500

## OTHER PROFESSIONAL EXPERIENCE

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

## TECHNICAL SKILLS AND CERTIFICATIONS

Scientific Diver (American Academy of Underwater Sciences)  
 Divemaster (Professional Association of Diving Instructors)  
 Cylinder Inspector (Professional SCUBA/Cylinder Inspectors)  
 Small Vessel Operator Proficiency (Transport Canada)  
 Reef Life Survey Diver Trainer (Reef Life Survey/University of Tasmania)  
 CPR & Oxygen Administration (Divers' Alert Network)  
 Software (R, PRIMER, ArcGIS/Q GIS, Pix4D, MS Office, LaTeX, Git)

## PRESENTATIONS

'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 WASHINGTON  
Teaching Assistant, Friday Harbor Labs

Friday Harbor, WA  
(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  
Graduate Teaching Assistant, Department of Biology

Vancouver, BC  
(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.

## **UNDERGRADUATES AND INTERNS MENTORED**

(graduation year, current status if known)

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**

Director-at-Large, Board of Directors, American Academy of Underwater Sciences, 2019-Present

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