CURRICULUM VITAE

CHELSEA L. WOOD

Assistant Professor, School of Aquatic and Fishery Sciences
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EMPLOYMENT

School of Aquatic and Fishery Sciences, University of Washington — Seattle, WA
Assistant Professor — *2016 – present*

Michigan Society of Fellows, University of Michigan — Ann Arbor, MI
Fellow, Department of Ecology and Evolutionary Biology — *2014–2016*

Department of Ecology and Evolutionary Biology, University of Colorado — Boulder, CO
Postdoctoral Researcher, Laboratory of Pieter Johnson — *2013–2014*

Department of Biology, Stanford University — Pacific Grove, CA
Ph.D. Candidate, Laboratory of Fiorenza Micheli — *2008–2013*

***Frontiers in Ecology and the Environment*, Ecological Society of America** — Washington, DC
Assistant Editor — *2006–2008*

EDUCATION

Stanford University, *Ph.D., Ecology, Evolution, and Population Biology* — Stanford, CA
- National Science Foundation Graduate Research Fellowship — *2008–2013*
- Alyce B. and Henry J. Ramey, Jr. Stanford Graduate Fellowship

Dartmouth College, *A.B., Ecology and Evolutionary Biology* — Hanover, NH
- Summa cum laude, Phi Beta Kappa, High Honors in the major — *2002–2006*

RESEARCH INTERESTS

Ecology of parasites and pathogens, effects of environmental change on disease transmission, marine and freshwater biology, schistosomiasis and other zoonoses, spatial ecology, biodiversity, conservation biology

PUBLICATIONS

Mentees: * indicates undergraduate student, ** indicates graduate student, *** indicates postdoc

Published and in press:

45. Claar DC***, Kuris AM, Leslie K, Welicky R***, Williams M***, and **Wood CL**. In press. Parasite biodiversity: A peer-reviewed, open-access module for teaching and learning. Produced in collaboration with the Network of Conservation Educators and Practitioners, Center for Biodiversity and Conservation, American Museum of Natural History, New York, NY. Available from http://ncep.amnh.org. *Lessons in Conservation*.

Published and in press (cont'd):

44. Carlson CJ, Hopkins S, Bell KC, Doña J, Godfrey SS, Kwak ML, Lafferty KD, Moir ML, Speer KA, Strona G, Torchin M, and **Wood CL**. In press. A global parasite conservation plan. *Biological Conservation*.
42. Chamberlin AJ, Jones IJ, Lund AJ, Jouanard N, Riveau G, Ndione R, Sokolow SH, **Wood CL**, Lafferty KD, De Leo GA. In press. Visualization of schistosomiasis snail habitat using light unmanned aerial vehicles. *Geospatial Health.*
41. Haggerty CJE, Bakhoum S, Civitello DJ, De Leo GA, Jouanard N, Ndione RA, Remais JV, Riveau G, Senghor S, Sokolow SH, Souleymane SOW, Wolfe C, **Wood CL**, Jones I[**], Chamberlin A, and Rohr JR. 2020. Aquatic macrophytes and macroinvertebrate predators affect densities of schistosome cercariae, the parasitic life stage causing human schistosomiasis. *PLoS Neglected Tropical Diseases* **14**: e0008417.
40. Fiorenza EA[**], Leslie KL, Torchin ME, Maslenikov KP, Tornabene L, and **Wood CL**. 2020. Fluid preservation causes minimal reduction of parasite detectability in fish specimens: A new approach for reconstructing parasite communities of the past. *Ecology and Evolution* **10**: 6449–6460.
39. Claar DC[***] and **Wood CL**. 2020. Pulse heat stress and parasitism in a warming world. *Trends in Ecology and Evolution* **35**: 704–715.
38. **Wood CL**, Summerside M[*], and Johnson PTJ. 2020. How host diversity and abundance affect parasite infections: Results from a whole-ecosystem manipulation of bird activity. *Biological Conservation* **248**: 108683.
37. Fiorenza EA[**], Wendt CA[**], Dobkowski KA[***], King TL, Pappaionou M, Rabinowitz P, Samhouri JF, and **Wood CL**. 2020. It's a wormy world: Meta-analysis reveals long-term change in the global abundance of parasitic anisakid nematodes in fishes and invertebrates. *Global Change Biology* **26**: 2854–2866.
36. Martinelli JC[***], Lopes HM[*], Hauser L, Jimenez-Hidalgo I, King TL, Padilla-Gamiño JL, Rawson P, Spencer LH[**], Williams J, and **Wood CL**. 2020. Confirmation of the shell-boring oyster parasite *Polydora websteri* (Polychaeta: Spionidae) in Washington State, USA. *Scientific Reports* **10**: 2961.
35. Rohr JR, Civitello DJ, Halliday FW, Hudson PJ, Lafferty KD, **Wood CL**, and Mordecai EA. 2020. Towards common ground in the biodiversity–disease debate. *Nature Ecology and Evolution* **4**: 24–33.
34. **Wood CL**, Sokolow S, Jones I, Chamberlin A, Lafferty KD, Kuris AM, Jocque M, Hopkins S, Adams G, Buck JC, Lund A, Garcia-Vedrenne AE, Fiorenza E[**], Rohr JR, Allan F, Webster B, Rabone M, Webster JP, Bandagny L, Ndione R, Senghor S, Schacht A-M, Jouanard N, Riveau G, and De Leo G. 2019. Precision mapping of snail habitat provides a powerful indicator of human schistosomiasis transmission. *Proceedings of the National Academy of Sciences of the USA* **116**: 23182–91.
33. Stewart Lowndes JS, Froehlich HE, Horst A, Jayasundara N, Pinsky ML, Stier AC, Therkildsen NO, and **Wood CL**. 2019. Supercharge your research: A ten-week plan for open science. *Nature*. doi:10.1038/d41586-019-03335-4.
32. **Wood CL**, Summerside M[*], and Johnson PTJ. 2019. An effective method for ecosystem-scale manipulation of bird abundance and diversity. *Ecology and Evolution* **9**: 9748–58.
31. Hoover CM, Sokolow SH, Kemp J, Sanchirico JN, Lund AJ, Jones I, Higginson T, Riveau G, Savaya-Alkalay A, Coyle S, **Wood CL**, Micheli F, Casagrandi R, Mari L, Gatto M, Rinaldo A, Perez-Saez J, Rohr JR, Sagi A, Remais JV, and De Leo GA. 2019. Modelled effects of prawn aquaculture on poverty alleviation and schistosomiasis control. *Nature Sustainability* **2**: 611–20.
30. Harmon A[**], Littlewood DTJ, and **Wood CL**. 2019. Parasites lost: Using natural history collections to track disease change across deep time. *Frontiers in Ecology and the Environment* **17**: 157–66.
29. Catalano S, Nadler SA, Fall CB, Marsh KJ, Léger E, Sène M, Priestnall SL, **Wood CL**, Diouf ND, Bâ K, and Webster JP. 2019. *Plagiorchis* sp. in small mammals of Senegal and the potential emergence of a zoonotic trematodiasis. *International Journal for Parasitology: Parasites and Wildlife* **8**: 164–70.

Published and in press (cont'd):

28. Arostegui MC[**], **Wood CL**, Jones IJ, Chamberlin A, Jouanard N, Faye DS, Kuris AM, Riveau G, De Leo GA, and Sokolow SH. 2019. Potential biological control of schistosomiasis by fishes in the lower Senegal River basin. *American Journal of Tropical Medicine and Hygiene* **100**: 117–26.
27. Hewitt TL[**], **Wood CL**, and Ó Foighil D. 2019. Ecological correlates and phylogenetic signal of host use in North American unionid mussels. *International Journal for Parasitology* **49**: 71–81.
26. Howard I[*], Davis E[*], Lippert G, Quinn TP, and **Wood CL**. 2019. Evidence from museum specimens confirms historical data: Abundance of an economically important nematode parasite increased in Puget Sound between 1930 and 2016. *Journal of Applied Ecology* 56: 190–200.
25. **Wood CL**, Zgliczynski BJ, Haupt AJ, Guerra AS[**], Micheli F, and Sandin SA. 2018. Human impacts decouple a fundamental ecological relationship – the positive association between host diversity and parasite diversity. *Global Change Biology* **24**: 3666–79.
24. Sokolow SH, **Wood CL**, Jones IJ, Lafferty KD, Kuris A, Hsieh MH, and DeLeo G. 2018. To reduce the global burden of human schistosomiasis, use "old-fashioned" snail control. *Trends in Parasitology* **34**: 23–40.
23. **Wood CL**, McInturff A, Young HS, Kim DH, and Lafferty KD. 2017. Human infectious disease burdens decrease with urbanization but not with biodiversity. *Philosophical Transactions of the Royal Society B* **372**: 20160117.
22. Sokolow SH, Jones IJ, Jocque M, La D, Cords O, Knight A, Lund A, **Wood CL**, Lafferty KD, Kuris AM, Hoover CM, Collender PA, Remais J, Lopez-Carr D, DeLeo G. 2017. Nearly 400 million people are at higher risk of schistosomiasis because dams block the migration of snail-eating river prawns. *Philosophical Transactions of the Royal Society B* **372**: 20160127.
21. Young HS, **Wood CL**, Kilpatrick AM, Lafferty KD, Nunn CL, and Vincent JR. 2017. Conservation, biodiversity, and infectious disease: Scientific evidence and policy implications. *Philosophical Transactions of the Royal Society B* **372**: 20160124.
20. **Wood CL** and Johnson PTJ. 2016. How does space influence the relationship between host and parasite diversity? *Journal of Parasitology* **102**: 485–94.
19. Sokolow SS, **Wood CL**, Jones IJ, Swartz S, Lopez M, Hsieh M, Lafferty KD, Kuris AM, and DeLeo GA. 2016. Global assessment of schistosomiasis control over the past century shows targeting the snail intermediate host works best. *PLoS Neglected Tropical Diseases* **10**: e0004794.
18. Johnson PTJ, **Wood CL**, Joseph MB, Preston DL, Haas S, and Springer Y. 2016. Habitat heterogeneity drives the host-diversity-begets-parasite-diversity relationship: Evidence from experimental and field studies. *Ecology Letters* **19**: 752–61.
17. Guerra AS[*], Micheli F, and **Wood CL**. 2016. Ecology of a vulnerable shorebird across a gradient of habitat alteration: Bristle-thighed Curlews (*Numenius tahitiensis*) on Palmyra Atoll. *Pacific Science* **70**: 159–74.
16. **Wood CL**, Lafferty KD, DeLeo GA, Young HS, Hudson PJ, and Kuris AM. 2016. Does biodiversity protect humans against infectious disease? Reply. *Ecology* **97**: 542–46.
15. Swartz SJ, DeLeo GA, **Wood CL**, and Sokolow SH. 2015. Infection with schistosome parasites in snails leads to increased predation by prawns: implications for human schistosomiasis control. *Journal of Experimental Biology* **218**: 3962–67.
14. **Wood CL** and Johnson PTJ. 2015. A world without parasites: Exploring the hidden ecology of infection. *Frontiers in Ecology and the Environment* **13**: 425–34.
13. **Wood CL**, Baum J, Reddy SMW, Trebilco R, Sandin S, Zgliczynski B, Briggs A, and Micheli F. 2015. Productivity and fishing pressure drive variability in fish parasite assemblages of the Line Islands, equatorial Pacific. *Ecology* **96**: 1383–98.
12. **Wood CL** and Lafferty KD. 2015. How have fisheries affected parasite communities? *Parasitology* **142**:134-44.
11. **Wood CL**. 2014. Environmental change and the ecology of infectious disease. *Science* **346**: 1192.

Published and in press (cont'd):

10. Papastamatiou YP, **Wood CL**, Bradley DE, McCauley DJ, Pollock AL, and Caselle JE. 2014. First record of the Pacific lemon shark, *Negaprion acutidens*, in Palmyra Atoll, central Pacific: A recent colonization event? *Marine Biodiversity Records* **14**: e114.
9. **Wood CL**, Sandin S, Zgliczynski B, Guerra AS*, and Micheli F. 2014. Fishing drives declines in fish parasite diversity and has variable effects on parasite abundance. *Ecology* **95**: 1929–46.
8. **Wood CL**, Lafferty KD, DeLeo G, Young HS, Hudson PJ, and Kuris AM. 2014. Does biodiversity protect humans against infectious disease? *Ecology* **95**: 817–32.
7. **Wood CL**, Micheli F, Fernández M, Castilla JC, and Carvajal J. 2013. Marine protected areas facilitate parasite populations among four fished host species of central Chile. *Journal of Animal Ecology* **82**: 1276–87.
6. Lafferty KD and **Wood CL**. 2013. It's a myth that protection against disease is a strong and general service of biodiversity conservation: Response to Ostfeld and Keesing. *Trends in Ecology and Evolution* **28**: 503–04.
5. Young HS, Griffin RH, **Wood CL**, and Nunn CL. 2013. Does habitat disturbance increase infectious disease risk for primates? *Ecology Letters* **16**: 656–63.
4. **Wood CL** and Lafferty KD. 2013. Biodiversity and disease: A synthesis of opposing ecological models for Lyme disease transmission. *Trends in Ecology and Evolution* **28**: 239–47.
3. Gaither MR, Aeby G, Vignon M, Meguro Y, Runion C, Toonen RJ, **Wood CL**, and Bowen BW. 2013. An invasive fish and the time-lagged spread of its parasite across the Hawaiian archipelago. *PLoS One* **8**: e56940.
2. **Wood CL**, Lafferty KD, and Micheli F. 2010. Fishing out marine parasites? Impacts of fishing on rates of parasitism in the ocean. *Ecology Letters* **13**: 761–75.
1. **Wood CL**, Byers JE, Cottingham KL, Altman I, Donahue MJ, and Blakeslee AMH. 2007. Parasites alter community structure. *Proceedings of the National Academy of Sciences of the USA* **104**: 9335–39.

Published book chapters (cont'd):

Behringer DC, **Wood CL**, Krkosek M, and Bushek D. In press. Disease in fisheries and aquaculture. 2020. In: Marine Disease Ecology (Behringer DC, Lafferty KD, and Silliman BR, Eds). Oxford University Press. pp. 183–209.

Micheli F, DeLeo G, Ferretti F, Hines AM, Honey K, Kroeker K, Martone RG, McCauley DJ, O'Leary JK, Rosim D, Sokolow S, Stock A, and **Wood CL**. 2016. Ocean Health. In: Routledge Handbook of Ocean Resources and Management (Smith HD, Suarez de Vivero JL, and Agardy TS, Eds). Routledge Taylor & Francis Group. Pp. 108–126.

DeLeo G and **Wood CL**. 2012. Disease dynamics. In: Encyclopedia of Theoretical Ecology (Hastings A and Gross L, Eds). University of California Press. pp. 179–87.

Published abstracts:

De Leo GA, Sokolow SH, Garchitorena A, Ngonghala CN, Lund A, Barry M, Burke KS, Mordecai EA, Daily GC, Jones JH, Andrews JR, Bendavid E, Luby SP, LaBeaud AD, Seetah K, Guegan J-F, Lafferty KD, **Wood CL**, Jones IJ, Bonds MH. 2017. A novel framework to account for ecological drivers in the control and elimination of environmentally transmitted disease: A modelling study. *Lancet* **389**: S5.

Sokolow SH, Jones IJ, Jocque M, La D, Cords O, Knight A, Lund A, **Wood CL**, Lafferty KD, Hoover CM, Collender PA, Remais J, Lopez-Carr D, Fisk J, Kuris AM, De Leo GA. 2017. Water, dams, and prawns: Novel ecological solutions for the control and elimination of schistosomiasis. *Lancet* **389**: S20.

PUBLICATIONS (CONT'D)

Outreach materials:

Wood CL. Identifying aquatic plants with drones could be the key to reducing a parasitic infection in people. 2020. The Conversation. https://theconversation.com/identifying-aquatic-plants-with-drones-could-be-thekey-to-reducing-a-parasitic-infection-in-people-127422.

Sokolow S, Jones I, Jocque M, La D, Cords O, Knight A, Lund A, **Wood CL**, Lafferty KD, Hoover C, Collender P, Remais J, Lopez-Carr D, Fisk J, Kuris M, De Leo G. 2018. More river prawns = less snail fever? *Science Journal for Kids*. http://www.sciencejournalforkids.org/uploads/5/4/2/8/54289603/schisto_article.pdf.

Publications in review or revision:

Hopkins SR, Sokolow SH, De Leo GA, Buck JC, Jones I, Kwong L, LeBoa C, Lund AJ, MacDonald AJ, Nova N, Olson SH, Peel AJ, **Wood CL**, and Lafferty KD. Identifying win–wins for people and nature.

McLaughlin JP, Jaramillo AG, Shaw JC, **Wood CL**, Vidal-Martinez VM, Aguirre-Macedo ML, James AK, Caselle JE, Friedlander AM, Brant SV, Hechinger RF, Kuris AM, and Lafferty KD. Body size, density, biomass, and life stages of all organisms, including infectious agents from the intertidal sand flats at Palmyra Atoll, Northern Line Islands.

Quinn J[*], Lee SC, Greeley D[*], Gehman A, Kuris AM, and **Wood CL**. Long-term change in the parasite burden of shore crabs (*Hemigrapsus oregonensis* and *H. nudus*) on the northwestern Pacific coast of North America.

Sokolow SH, Jones IJ, **Wood CL**, Lafferty KD, Garchitorena A, Hopkins SR, Lund A, MacDonald A, Nova N, LeBoa C, Peel AJ, Mordecai EA, Chamberlin A, Howard M, Buck JC, Lopez-Carr D, Barry M, Bonds M, and DeLeo G. More than one third of global human infectious disease burden is environmentally mediated, with disproportionate effects in rural poor areas.

Spencer LH[**], Martinelli JC[***], King TL, Crim R, Blake B, Lopes HM[*], and **Wood CL**. The risks of shell-boring polychates to shellfish aquaculture in Washington, USA: A mini-review to inform mitigation actions.

Welicky R[***], Preisser W[***], Leslie K, Mastick N[**], Fiorenza E[**], Maslenikov K, Tornabene L, Kinsella M, and **Wood CL**. Parasites of the past: Ninety years of change in parasitism for English Sole.

Welicky R[***], Rolfe F, Leazer K, Maslenikov K, Tornabene L, Holtgrieve G, and **Wood CL**. Fluid-preserved fishes are one solution for assessing historical change in fish trophic level.

RESEARCH GRANTS AND CONTRACTS

Funding agency, program, and award number	Title	Total amount	Wood amount	Wood role	Dates
UW Population Health Initiative and EarthLab Pilot Research Grant	Environmental and human health impacts of a new invasive species in Madagascar	$49,943	$49,943	**Wood** is lead PI; co-PIs include Peter Rabinowitz, Luciano Andriamaro, Susanne Sokolow, Giulio DeLeo, and Julia PG Jones	05/01/2020–04/30/2021
Belmont Forum	Integrated risk mapping and targeted snail control to support schistosomiasis elimination in Brazil and Cote d'Ivoire under future climate change	$1,000,000	$9,839	PI = Giulio DeLeo, co-PIs = **Chelsea Wood**, Susanne Sokolow, N'Goran Eliezer Kouakou, Andrew Brierly, Liu Ping, Rachel Norman, Kamazima Lwiza, Roseli Tuan, and Robert Lima Caldeira	01/01/2020–12/31/2022
National Science Foundation Research Traineeship (NRT)	Future Rivers: Training a scientifically innovative, communication-savvy STEM workforce for sustaining food-energy-water services in large and transboundary river ecosystems	$3,000,000	$24,675	PI and Director of Future Rivers NRT = Gordon Holtgrieve, co-PIs and co-Directors = **Chelsea Wood**, Magdalena Balazinska, David Butman, and Faisal Hossain	09/01/2019–08/31/2024
Western Regional Aquaculture Center (US Department of Agriculture, National Institute of Food and Agriculture)	Detection and control of mud blister worm (*Polydora* spp.) infestation on commercial oyster farms throughout the Pacific Northwest	$359,065	$218,117	**Wood** is lead PI; co-PIs include Jacqueline Padilla-Gamiño, Lorenz Hauser, Steven Rumrill, and Teri King	06/01/2019–08/31/2023
Washington Research Foundation Postdoctoral Fellowship	Using compound-specific stable isotope analysis to evaluate trophic downgrading of Puget Sound fishes over the past 100 years	$270,353	$270,353	**Wood** is the supervisor of the funded postdoc, Rachel Welicky	01/01/2019–12/31/2022
National Science Foundation, Division of Geosciences, Biological Oceanography Program (OCE-1829509)	Collaborative Research: Decomposing the effects of diversity on the abundance of marine parasites	$1,000,000	$606,634	**Wood** is lead PI; co-PIs include Stuart Sandin and Alison Haupt	10/01/2018–09/30/2021
Sloan Research Fellowship, Alfred P. Sloan Foundation	A rising tide of marine disease? Unraveling the dynamics of infection in a changing ocean	$65,000	$65,000	**Wood** is sole PI	09/15/2018–09/14/2020
Contract with Oceans Initiative	Assessing fitness effects of parasitism for southern resident killer whales	$64,112	$64,112	**Wood** is sole PI	09/14/2018–09/25/2020
UW Innovation Award, UW President's Innovation Imperative	A rising tide of marine disease? Unraveling the dynamics of infection in a changing ocean	$297,067	$297,067	**Wood** is lead PI; co-PI is Luke Tornabene	03/01/2018–02/28/2021
Washington Sea Grant Program Development Grant	Uniting ecology and epidemiology to address anisakiasis risk from seafood consumption	$24,589	$24,589	**Wood** is sole PI	02/01/2018–08/31/2019
Contract with US Geological Survey	Transmission dynamics of *Ichthyophonus* in Pacific herring	$206,706	$206,706	**Wood** is sole PI	01/16/2017–01/14/2022
UW Royalty Research Fund	A rising tide of marine disease? Unraveling the dynamics of infection in a changing ocean	$34,779	$34,779	**Wood** is sole PI	02/01/2017–01/31/2018
TOTAL AWARDED		**$6,371,614**	**$1,871,814**	Lead PI on 10 projects, co-PI on 2 projects	

HONORS

2020 Kavli Fellow, Kavli Frontiers of Science Program, US National Academy of Sciences www.nasonline.org/programs/kavli-frontiers-of-science/
2020 Runner-up, Asia–Pacific Economic Cooperation (APEC) Science Prize for Innovation, Research, and Education (ASPIRE) www.apec.org/aspire/aspire2020
2019 Rising Star in Ecology Lecture, Atwood Colloquium, University of Toronto Department of Ecology and Evolutionary Biology
2018 University of Washington Distinguished Teaching Award
2018 University of Washington College of the Environment Exceptional Mentoring of Undergraduates Award
2018 Sloan Research Fellow, Alfred P. Sloan Foundation
2017 ESA Early Career Fellow
2015 Outstanding Research Mentor Award, UROP, University of Michigan
2014 *Science* & SciLifeLab Prize for Young Scientists
2013 Frances Lou Kallman Award, Stanford University Department of Biology
2011 Arthur C. Giese Award for Original Experimental Work in Marine Biology, Stanford University
2010 National Science Foundation Graduate Research Fellowship
2009 Honorable Mention, National Science Foundation Graduate Research Fellowship Competition
2009 Stanford Biology Excellence in Teaching Award, Stanford University
2009 Eugene C. and Aileen E. Haderlie Memorial Award, Stanford University
2008 Ecological Society of America Outstanding Student Research Award
2008 Honorable Mention, National Science Foundation Graduate Research Fellowship Competition
2008 Stanford Graduate Fellowship, Stanford University (awarded to 4 of ~50 incoming Biology PhD students)
2006 Honorable Mention, Best Oral Presentation, Benthic Ecology Meeting

INVITED PRESENTATIONS

2020 **Public lecture on "biodiversity for a prosperous economy", organized by the US State Department, Asia-Pacific Economic Cooperation (APEC) Science Prize for Innovation, Research, and Education (ASPIRE).** Seminar: *Better living through ecology: How understanding biodiversity can advance human health.*
2020 **Hakai Institute's Synchronizing Biodiversity Seminar Series**. Seminar: *How has marine parasite biodiversity changed over time, why has it changed, and who cares?*
2020 **Kavli Frontiers of Science Symposium, US National Academy of Sciences.** Flash presentation: *Ghosts of oceans past: What can data on historical parasite burdens tell us about the future of marine disease?*
2020 **University of California Davis / Nanjing Agricultural University Online One Health Workshop.** Seminar: *Ghosts of oceans past: What can data on historical parasite burdens tell us about the future of marine disease?*
2020 **University of British Columbia / University of East Anglia Ecology and Evolution Online Seminar Series.** Seminar: *Ghosts of oceans past: What can data on historical parasite burdens tell us about the future of marine disease?*
2019 **University of Oregon, Oregon Institute of Marine Biology**, Charleston, OR. Seminar: *Ghosts of oceans past: What can data on historical parasite burdens tell us about the future of marine disease?*
2019 **Gordon Research Conference on Urbanization, Water, and Food Security**, Hong Kong, China. Seminar: *Ghosts of oceans past: What can data on historical parasite burdens tell us about the future of marine disease?*
2019 **University of Toronto, Department of Ecology and Evolutionary Biology, Atwood Colloquium, Rising Star in Ecology Lecture**, Toronto, Canada. Seminar: *Ghosts of oceans past: How fishing reshapes communities of fishes and their parasites.*
2019 **School of Aquatic and Fishery Sciences Centennial Celebration**, Seattle, WA. Seminar: *Lessons from "lesser" taxa.* https://www.youtube.com/watch?v=IfwMBQd-9sM

INVITED PRESENTATIONS (CONT'D)

2019 **University of California San Diego, Scripps Institution of Oceanography, Marine Biology Seminar Series**, La Jolla, CA. Seminar: *Ghosts of oceans past: How fishing reshapes communities of fishes and their parasites.*

2019 **School of Aquatic and Fishery Sciences Quantitative Seminar Series**, Seattle, WA. Seminar: *Habitat area integrates over spatial and temporal variability in snail abundance to predict human urogenital schistosomiasis burden.*

2018 **Ecological Society of America Annual Meeting**, New Orleans, LA. Oral presentation: *Human impacts decouple a fundamental ecological relationship – the positive association between host diversity and parasite diversity.*

2018 **University of Puget Sound Phi Sigma Biological Honors Society Undergraduate Research Symposium**, Tacoma, WA. Keynote address: *People, nature, and disease: Adventures in parasite ecology.*

2018 **Barro Colorado Island Research Station**, Barro Colorado Island, Panama. Seminar: *Biodiversity and disease: Ecosystem services or ecosystem disservices?*

2018 **Smithsonian Tropical Research Institute**, Panama City, Panama. Seminar: *Ghosts of oceans past: How fishing reshapes communities of fishes and their parasites.*

2018 **College of William and Mary, Virginia Institute of Marine Science**, Gloucester Point, VA. Seminar: *Ghosts of oceans past: How fishing reshapes communities of fishes and their parasites.*

2017 **Ecology and Evolution of Infectious Diseases Meeting**, Santa Barbara, CA. Seminar: *Human infectious disease burdens decrease with urbanization but not with biodiversity.*

2017 **US Food and Drug Administration, Pacific Regional Laboratory Northwest**, Bothell, WA. Seminar: *Nature's services, nature's disservices: How ecology can help us understand and reduce human infectious disease burdens.*

2017 **University of Victoria, Department of Biology**, Victoria, BC, Canada. Seminar: *Biodiversity and disease: ecosystem services or ecosystem disservices?*

2016 **Indiana University, Department of Biology**, Bloomington, IN. Seminar: *Ghosts of oceans past: How fishing reshapes communities of fishes and their parasites.*

2016 **Friday Harbor Laboratories**, Friday Harbor, WA. Seminar: *Ghosts of oceans past: How fishing reshapes communities of fishes and their parasites.*

2016 **Harvard University, Harvard TH Chan School of Public Health, Center for Communicable Disease Dynamics**, Boston, MA. Seminar: *How do human impacts on the environment change patterns of disease transmission?*

2016 **Boston University, Department of Biology**, Boston, MA. Seminar: Ghosts of oceans past: *How fishing reshapes communities of fishes and their parasites.*

2016 **University of California, Riverside**, Department of Biology, Riverside, CA. Seminar: *Global environmental change and the ecology of infectious disease.*

2016 **George Washington University, Department of Biological Sciences**, Washington, DC. Seminar: *Ghosts of oceans past: How fishing reshapes communities of fishes and their parasites.*

2016 **University of Washington, School of Aquatic and Fishery Sciences**, Seattle, WA. Seminar: *Feedbacks between fishing and parasitism in a changing ocean.*

2015 **Trinity College Dublin, Department of Zoology**, Dublin, Ireland. Seminar: *Global environmental change and the spatial ecology of infectious disease.*

2015 **University of Michigan, Department of Ecology and Evolutionary Biology**, Ann Arbor, MI. Seminar: *Ghosts of oceans past: How fishing reshapes communities of fishes and their parasites.*

2015 **Imperial College London, Department of Life Sciences**, Silwood Park, UK. Seminar: *Winners and losers among parasites in a changing world.*

2015 **American Society of Parasitologists**, Omaha, NE. Seminar: *Winners and losers among parasites in a changing ocean.*

INVITED PRESENTATIONS (CONT'D)

2015 **ETH Zurich, Department of Environmental Systems Science**, Zurich, Switzerland. Seminar: *Winners and losers among parasites in a changing world.*

2015 **Michigan Society of Fellows**, Ann Arbor, MI. Seminar: *People, nature, and disease: Adventures in parasite ecology.*

2014 **University of Hawaii at Mānoa, Department of Biology**, Honolulu, HI. Seminar: *Winners and losers among parasites in a changing ocean.*

2014 **Wildlife Disease Association Student Chapter**, Colorado State University, Fort Collins, CO. Panel discussion: *Fisheries health and disease.*

2012 **Ecology and Evolution of Infectious Disease Conference**, Ann Arbor, MI. Seminar: *How does fishing affect the parasites of fished species?*

2011 **Fulbright Visiting Scholar Conference**, Monterey, CA. Seminar: *People, oceans, and disease.*

2011 **American Fisheries Society Annual Meeting**, Seattle, WA. Seminar: *Fishing out marine parasites? Impacts of fishing on the abundance and diversity of fish parasites.*

2006 **American Society of Limnology and Oceanography Ocean Sciences Meeting**, Honolulu, HI. Poster presentation: *Can parasites alter a community via effects on hosts? Influence of trematode parasitism on growth and grazing in* Littorina littorea.

CONTRIBUTED PRESENTATIONS

2018 **Western Society of Naturalists Meeting**, Tacoma, WA. Oral presentation: *Evidence from museum specimens confirms historical data: 86 years of increasing parasitism for Puget Sound English sole.*

2017 **Ecological Society of America Annual Meeting**, Portland, OR. Oral presentation: *Human infectious disease burdens decrease with urbanization but not with biodiversity.*

2016 **Western Society of Naturalists Meeting**, Monterey, CA. Oral presentation: *Ghosts of oceans past: How fishing reshapes communities of fishes and their parasites.*

2016 **Oceans Past Platform: Historical Ecology of Semi-enclosed Basins, University of Padova**, Chioggia, Italy. Poster presentation: *A rising tide of marine disease? Unraveling the dynamics of infection in a changing ocean.*

2015 **Ecological Society of America Annual Meeting**, Baltimore, MD. Oral presentation: *Productivity and fishing pressure drive variability in fish parasite assemblages of the Line Islands, equatorial Pacific.*

2013 **Ecological Society of America Annual Meeting**, Minneapolis, MN. Oral presentation: *Fishing has variable effects on parasite abundance: Evidence from fished and unfished coral atolls of the Line Islands.*

2013 **Ecology and Evolution of Infectious Disease Conference**, State College, PA. Poster presentation: *Fishing drives declines in fish parasite diversity and has variable effects on parasite abundance: Evidence from fished and unfished coral atolls of the Line Islands.*

2012 **Ecological Society of America Annual Meeting**, Portland, OR. Oral presentation: *Epidemiological and ecological effects of fishing on parasites of fished host species.*

2011 **Stanford–UC Santa Cruz Species Interactions Workshop**, Stanford, CA. Oral presentation: *Epidemiological and ecological effects of fishing on parasites of fished host species.*

2011 **Western Society of Naturalists Meeting**, Vancouver, WA. Oral presentation: *Fishing out marine parasites? Marine reserves facilitate parasite populations among exploited host species of central Chile.*

2010 **American Society of Limnology and Oceanography Meeting**, Portland, OR. Oral presentation: *Fishing out marine parasites? Rates of parasitism along a fishing gradient on the central Chilean coast.*

2008 **Stanford–UC Santa Cruz Species Interactions Workshop**, Santa Cruz, CA. Oral presentation: *Parasites alter community structure:* Littorina littorea *and its trematode parasite in the rocky intertidal zone.*

2006 **Benthic Ecology Meeting**, Quebec City, QC, Canada. Oral presentation: *Can parasites alter community structure through effects on hosts? Influence of trematode parasitism on grazing in* Littorina littorea.

MENTORING

Postdoctoral researchers supervised

Postdoc name	Project title	Funding mechanism	Start	Completion
Danielle Claar	Large-scale climatic drivers of parasitism in coral reef fishes	NOAA Climate and Global Change Postdoctoral Fellowship	2019	in progress
Whitney Preisser	A rising tide of marine disease? Unraveling the dynamics of infection in a changing ocean	Wood funds (UW Innovation Award and Sloan Research Fellowship)	2019	in progress
Rachel Welicky	Using compound-specific stable isotope analysis to evaluate trophic downgrading of Puget Sound fishes over the past 100 years	Washington Research Foundation Postdoctoral Fellowship	2019	in progress
Maureen Williams	Decomposing the effects of diversity on the abundance of marine parasites	Wood funds (NSF Biological Oceanography Program)	2019	in progress
Julieta Martinelli	Detection and control of mud blister worm (*Polydora* spp.) infestation on commercial oyster farms throughout the Pacific Northwest	Wood funds (Western Regional Aquaculture Center)	2019	in progress
Julieta Martinelli	Detection and control of mud blister worm (*Polydora* spp.) infestation on commercial oyster farms throughout the Pacific Northwest	National Fund for Scientific and Technological Development (FONDECYT) Fellowship from the Chilean government	2017	2018
Katie Dobkowski	It's a wormy world: Meta-analysis reveals long-term change in the global abundance of parasitic anisakid nematodes in fishes and invertebrates	University of Washington Department of Biology Teaching Postdoc	2017	2018

Graduate students supervised

Supervisory role	Student name	Dissertation title	Start	Completion
Chaired doctoral degrees	Sara Faiad	TBD	2019	in progress
	Natalie Mastick	Assessing fitness effects of parasitism for southern resident killer whales	2018	in progress
Chaired master's degrees	Catrin Wendt	*Ichthyophonus* in Pacific herring: Investigating a transmission hotspot	2017	2020
	Evan Fiorenza	Parasites of the past: Tracking change in marine parasite abundance over time	2017	2019

Graduate student committee participation

Degree	Student	University	Department	Committee chair	Start	Completion
PhD	Ashley Townes	University of Washington	SAFS	Ray Hilborn and Daniel Schindler	2018–2023	in progress
PhD	Hannah Bassett	University of Washington	SAFS	Ray Hilborn	2017–2022	in progress
PhD	Kimberly Yazzie	University of Washington	SAFS	Daniel Schindler	2016–2021	in progress
PhD	Reyn Yoshioka	University of Oregon	Oregon Institute of Marine Biology	Aaron Galloway	2016–2021	in progress
PhD	Michelle Fearon	University of Michigan	Ecology and Evolutionary Biology	Elizabeth Tibbetts	2014–2020	completed
MS	Grace Crandall	University of Washington	SAFS	Steven Roberts	2018–2020	completed

Undergraduate students supervised

Student role	Dates	Student name	Topic	Student affiliation	Status
Undergrad capstone	2019–2020	Ryan Fox-Horn	Diets of offshore and harbor age-zero herring (*Clupea pallasii*)	University of Washington	completed
Undergrad capstone	2019–2020	Daisey Newman	Testing the enemy release hypothesis for invasive European green crabs (*Carcinus maenas*) in the Pacific Northwest	University of Washington	completed
Undergrad capstone	2019–2020	Jess Quinn	Long-term change in the parasite burden of shore crabs (*Hemigrapsus oregonensis* and *H. nudus*) in the Pacific Northwest	University of Washington	completed
Undergrad capstone	2019–2020	Aery Yoo	Impacts of schistosomiasis infection on behavior of intermediate host snails	University of Washington	completed
Undergrad capstone	2017–2019	Rachel Fricke	Dams and the transmission of schistosomiasis and fascioliasis	University of Washington	completed
Undergrad capstone	2018–2019	Duncan Greeley	Long-term change in the parasite burden of shore crabs (*Hemigrapsus oregonensis* and *H. nudus*) in the Pacific Northwest	University of Washington	completed
Undergrad capstone	2018–2019	Hiruni Jayasekera	Impacts of schistosomiasis infection on behavior of intermediate host snails	University of Washington	completed
Undergrad capstone	2018–2019	Chyenne Lisenby	Periodicity in emission of *Nanophyetus salmincola* cercariae by *Juga plicifera* snails	University of Washington	completed
Undergrad capstone	2018–2019	Abigail Moosmiller	How have the diets of English sole (*Parophrys vetulus*) changed over the past 100 years?	University of Washington	completed
Undergrad capstone	2018–2019	Kara Skaw	Historical ecology of Clavinema mariae "blood worms" in high cockscomb prickleback (Anoplarchus purpurescens) of Puget Sound	University of Washington	completed
Undergrad capstone	2018–2019	Emily Oven	Impact of habitat on parasite assemblages of herring (*Clupea harengus*) of Puget Sound	University of Washington	completed
Undergrad capstone	2017–2018	Sarah Colosimo	Spatial variability in intestinal parasite load of Puget Sound harbor seals (*Phoca vitulina*)	University of Washington	completed
Undergrad capstone	2017–2018	Ellie Davis	Historical ecology of *Clavinema mariae* "blood worms" in rock sole (*Lepidopsetta bilineata*) of Puget Sound	University of Washington	completed
Undergrad capstone	2017–2018	Sara Galer	The value of urban eelgrass beds as nursery habitats for juvenile rockfishes (*Sebastes* spp.) of Puget Sound	University of Washington	completed

Undergraduate students supervised (cont'd)

Student role	Dates	Student name	Topic	Student affiliation	Status
Undergrad capstone	2017–2018	Hiromi Katagiri	Historical ecology of *Clavinema mariae* "blood worms" in blackbelly eel pout (*Lycodes pacificus*) of Puget Sound	University of Washington	completed
Undergrad capstone	2017–2018	Heather Lopes	*Polydora* spp. polychaete parasites of Pacific oysters	University of Washington	completed
Undergrad capstone	2016–2017	Ingrid Howard	Historical ecology of *Philometra* spp. nematode parasitism in Puget Sound	University of Washington	completed
Visiting McNair Scholar	Summer 2019	Veronica Torres	How does sociality affect parasite burden in schooling convict tang (*Acanthurus triostegus*)?	University of California, Santa Barbara	completed
Undergrad honors thesis	2015–2016	Margaret Summerside	Linking biodiversity and parasite transmission in freshwater ponds of California	University of Colorado	completed
Undergrad honors thesis	2011–2013	Ana Sofía Guerra	Ecology of *Numenius tahitiensis* on Palmyra Atoll	Stanford University	completed
Northwest Fisheries Science Center intern	2019–2020	Alanna Greene	Variation in lingcod (*Ophiodon elongatus*) parasite burden in relation to genetic breaks and exploitation history	University of Washington	completed
Undergrad independent research	2017–2019	Hyejoo Ro	Effects of trematode parasite (*Microphallus similis)* on the behavior of green crabs (*Carcinus maenas*)	University of Washington	completed
Undergrad independent research	2014–2016	Cassandra Coulter	Evaluating parasite effects on host fitness in *Acanthurus nigricans*	University of Michigan	completed
Undergrad independent research	2011–2012	Sabina Perkins	How do humans affect the distribution of trematode parasites on Palmyra Atoll?	Stanford University	completed
Undergrad independent research	2011–2012	Aaron Peterson		Stanford University	completed
Undergrad independent research	2010–2013	Amanda Zerbe	Inter- and intra-specific competition among trematode parasites in the intestines of their surgeonfish hosts	Stanford University	completed

MENTORING (CONT'D)

Student grants, scholarships, and awards

2020 **Sara Faiad**, UW Graduate School Boeing International Fellowship (one quarter of salary, benefits, and tuition to support a three-month field expedition to Madagascar)
2020 **Sara Faiad**, foundry10 Research Grant ($2,500)
2020 **Sara Faiad**, Women Divers Hall of Fame (WDHOF) 20 for 2020 Dive Training Grant ($1,000)
2019 **Natalie Mastick**, UW Graduate School Graduate Student Conference Travel Award ($500)
2019 **Natalie Mastick**, UW School of Aquatic and Fishery Sciences Student Travel Award ($500)
2019 **Natalie Mastick**, UW School of Aquatic and Fishery Sciences Fisheries Interdisciplinary Network of Students (FINS) Travel Award ($300)
2019 **Jess Quinn**, Undergraduate Capstone Funding Award, School of Aquatic and Fishery Sciences ($800)
2019 **Natalie Mastick**, World Marine Mammal Conference (WMMC) Student Travel Grant ($250)
2019 **Rachel Welicky**, NSF Workshop Travel Grant, Understanding Freshwater Ecosystem Change through Analysis of Long-term Samples from Regional U.S. Fish Collections ($850)
2019 **Rachel Fricke**, Undergraduate Capstone Funding Award, School of Aquatic and Fishery Sciences ($800)
2019 **Rachel Welicky**, Johan Hjort Symposium Early Career Scientist Grant, sponsored by International Council for the Exploration of the Sea, Institute of Marine Research, The Research Council of Norway, and the Institutional Commission of the History of Oceanography ($2,400)
2019 **Rachel Welicky**, UW College of the Environment Student Travel Fund ($1,000)
2018 **Hyejoo Ro**, UW Dean of the College of the Environment Student Meeting and Travel Award ($108)
2018 **Heather Lopes**, Scholarship from the Mary Gates Endowment for Students ($3,000)
2018 **Sarah Colosimo**, People's Choice Award for her oral presentation at the Northwest Student Chapter of the Society for Marine Mammalogy
2018 **Heather Lopes**, School of Fishery and Aquatic Sciences Travel Award ($275)
2017 **Sarah Colosimo**, Research Scholarship from the Mary Gates Endowment for Students ($5,000)
2017 **Rachel Fricke**, Research Scholarship from the Mary Gates Endowment for Students ($5,000)
2017 **Catrin Wendt**, Top 3 Poster Award, Washington Cooperative Fish and Wildlife Research Unit Poster Session
2017 **Heather Lopes**, Undergraduate Capstone Funding Award, School of Aquatic and Fishery Sciences ($850)
2017 **Heather Lopes**, UW Library Research Award honorable mention and UW Library Population Health Award for her paper, "Battle of the filter feeders: Bacterial transmission in the presence of ascidians"
2017 **Ingrid Howard**, UW Undergraduate Research Conference Travel Award ($300)
2015 **Hannah Maier**, Biosphere 2 Research Experiences for Undergraduates Program, University of Arizona
2014 **Ana Sofía Guerra**, North American Rolex Scholar of the Our World Underwater Scholarship Society

TEACHING

University of Washington, School of Aquatic and Fisheries Sciences, Instructor

			Student evaluation scores		
Course name	Course number	Quarter	Response rate	Combined median (out of 5)	Adjusted combined median (out of 5)
Fisheries Ecology*	FISH 312	Spring 2020	88%	4.8	4.6
Fisheries Ecology	FISH 312	Spring 2019	81%	4.9	4.8
Historical Ecology	FISH 511	Winter 2019	100%	5.0	5.0
Parasite Ecology	FISH 406	Autumn 2018	100%	5.0	5.0
Biology of Shellfishes	FISH 310	Spring 2018	91%	4.7	4.8
Parasite Ecology	FISH 406	Autumn 2017	100%	4.9	4.9
Hot Topics in Aquatic and Fishery Sciences	FISH 522	Autumn 2017	76%	4.5	4.8
Biology of Shellfishes	FISH 310	Winter 2017	93%	4.8	4.7

**Note that the Spring 2020 academic quarter was impacted by COVID-19, which necessitated a last-minute switch to online teaching.*

Teaching awards

2018 University of Washington Distinguished Teaching Award
2018 University of Washington College of the Environment Exceptional Mentoring of Undergraduates Award
2015 Outstanding Research Mentor Award, UROP, University of Michigan
2009 Stanford Biology Excellence in Teaching Award

Guest lectures

2019 How specialist and generalist parasites impact fish health, Hot Topics in Aquatic and Fishery Sciences (FISH 522), University of Washington
2019 Habitat area integrates over spatial and temporal variability in snail abundance to predict human urogenital schistosomiasis burden, Biology of Shellfishes (FISH 310), University of Washington
2018 Biodiversity and disease, Hot Topics in Aquatic and Fishery Sciences (FISH 522), University of Washington
2018 Ghosts of oceans past, Diseases of Aquatic Animals (FISH 404), University of Washington
2017 Biodiversity and disease, Topics in Advanced Ecology (BIOL 567A), University of Washington
2016 Marine parasites, Marine Biology (BIO 345), California State University Monterey Bay
2015 Community epidemiology, Ecology and Evolution of Infectious Diseases (EEB 315), UM
2015 Gender in academia, Undergraduate Research Opportunities Program, University of Michigan
2013 Winners and losers among parasites in a changing world, One Health (PBHL 692), Colorado School of Public Health, Colorado State University Fort Collins
2013 Cryptic effects of fishing on marine biodiversity, Stanford at Sea (Bio 182H), Stanford University
2013 Parasite ecology, lecture and laboratory section for Invertebrate Zoology (Bio 161H), Stanford
2012 Parasite ecology, lecture and laboratory section for Invertebrate Zoology (Bio 161H), Stanford
2011 Cryptic effects of fishing on marine biodiversity, Stanford at Sea (Bio 182H), Stanford
2011 Parasite ecology, lecture and laboratory section for Invertebrate Zoology (Bio 161H), Stanford
2011 Intro to statistics and the scientific method, Stanford at Sea (Bio 182H), Stanford
2011 Biodiversity and ecosystem function, Stanford at Sea (Bio 182H), Stanford

PROFESSIONAL OFFICES AND PROFESSIONAL SOCIETY SERVICE

Professional offices

UW Future Rivers NSF Research Traineeship (NRT) *Co-Director*	Seattle, WA Oct 2019–present
Proceedings of the Royal Society of London B: Biological Sciences *Associate Editor*	London, UK *Jun 2018–present*
International Journal for Parasitology: Parasites and Wildlife *Editorial Board Member*	Smithfield, Australia *Jun 2019–present*
UW Quaternary Research Center (QRC) Member	Seattle, WA Aug 2020–present
SESYNC Working Group: How does a historical perspective inform ecosystem management targets, goals, and outcomes? *Working Group Member*	Annapolis, MD *May 2020–present*
NCEAS Future of Synthesis Workshop 2020, an NSF-funded working group that will envision the future of synthesis in the field of ecology *Member of the Steering Committee and Working Group Member*	Santa Barbara, CA *Sep 2019–present*
NCEAS Science for Nature & People Partnership (SNAPP) Working Group, "Environmental levers for health: Advancing an agenda for planetary health in the 21st century" *Working Group Member*	Santa Barbara, CA *May 2017–present*
Disease Working Group, Puget Sound Ecosystem Monitoring Program *Charter Member*	Seattle, WA *Sep 2016–present*
NCEAS/Mozilla Openscapes Champions Program for open practices in environmental science (www.openscapes.org) *Member of the inaugural Openscapes Champions cohort*	Santa Barbara, CA *Jan 2019–Jun 2019*
Student Awards Committee, American Society of Parasitologists *Committee Member*	New York, NY *Jul 2015–Jun 2017*
Special issue of *Philosophical Transactions of the Royal Society B*, "Biodiversity, conservation, and infectious disease: Scientific evidence and policy implications" *Guest Editor*	London, UK *Dec 2015–April 2017*

Professional society memberships

- American Society of Limnology and Oceanography (since 2016)
- American Society of Parasitologists (since 2012)
- Ecological Society of America (since 2008)
- National Association of Science Writers (since 2007)
- Sigma Xi Scientific Research Society (since 2006)

UNIVERSITY OF WASHINGTON COMMITTEES, DUTIES, AND SERVICE

Departmental service

- SAFS Fall 2020 Seminar Committee, May 2020–Dec 2020
- SAFS School Council, Sep 2017–present
- SAFS Fall 2019 Seminar Committee, May 2019–Dec 2019
- SAFS 100th-Anniversary Planning Committee, Organismal Biology Section, May 2018–Apr 2019
- SAFS Recruitment, Admissions, and Scholarship Committee, Sep 2016–Aug 2017

College and university service

- Co-Director, UW Future Rivers NSF Research Traineeship (NRT), Oct 2019–present
- Center for One Health Research Visioning Committee, Jun 2020–present
- College of the Environment Scholarship Review Committee, Apr 2020
- College of the Environment Awards Review Committee, Mar 2019
- College Marshal for UW Commencement Ceremony, Jun 2018
- University of Washington Faculty 2050 Working Group, Jan 2018
- Workshop on Funding and Academic Careers, UW Office of Postdoctoral Affairs, presenter, Apr 2017
- College of the Environment GO-MAP and GO-RA Diversity Scholarship Committee, Jan 2017

Community outreach

- **Open lab events –** Engaged the public during a Labs Unlocked event organized by the College Advancement office in April 2019. Opened the Wood Lab to the public during SAFS' annual open house in May 2018, the SAFS Centennial Celebration in April 2019, and for a SeaDawgs event in January 2019.
- **Bringing parasites into the classroom –** In collaboration with the Network of Conservation Educators and Practitioners (NCEP), a program of the American Museum of Natural History's Center for Biodiversity and Conservation, my group has developed an open-access learning module (Claar et al. 2020, *Lessons in Conservation*). Like all modules developed by NCEP, ours is peer-reviewed, designed for the university and professional level (but adaptable to other audiences), and targets educational outcomes central to conservation practice.
- **Outreach to oyster growers –** As part of our WRAC-funded efforts to address the problem of shell-boring invasive polychaetes in the Pacific Northwest, my group launched an industry advisory group to ensure a two-way flow of information: industry partners communicate their information needs, concerns, and observations to scientists, scientists report their findings back to industry, and the entire group collaboratively brainstorms creative solutions for reducing *Polydora* transmission and infection-induced product-value loss. This project will also result in published outreach products for oyster growers.

Presentations for nonprofessional audiences

2019 **UW News**, Seattle, WA. Video with interview and narration by Wood: *Drone photos help predict tropical disease infections*. https://www.youtube.com/watch?v=uoWQDA1Syok.

2019 **California Academy of Sciences bioGraphic**, San Francisco, CA. Video containing interview with Wood: *Protected by prawns: Restoring native crustaceans along West Africa's Senegal River may be a critical step in controlling one of the world's deadliest tropical diseases*. www.biographic.com/protected-by-prawns.

2019 **Northwest Science**, Seattle, WA. Video with interview and narration by Wood, designed as a pilot for a web series about women scientists by the production company Northwest Science: *Chelsea Wood, PhD, Parasite Ecologist*. https://www.youtube.com/watch?v=tU8zUktdnK4&t=10s

2017 **Seattle Aquarium Science & Cocktails event**, Seattle, WA. Lightning talk: *How to enjoy sushi without getting infested by parasites.* *https://www.youtube.com/watch?list=PLAwvRGotm5euvtKl7WCxa6rzfEo_4Au0O&time_continue=7&v=aXFtTExxe_w&feature=emb_logo*

PEER REVIEW

The American Naturalist ● *Aquaculture Environment Interactions* ● *Aquatic Conservation: Marine and Freshwater Ecosystems* ● *Biotropica* ● *Bulletin of Marine Science* ● *Czech Science Foundation* ● *Ecology* ● *Ecology Letters* ● *EcoHealth* ● *Ecological Applications* ● *Ecosphere* ● *Environmental Health Perspectives* ● *Estuarine, Coastal, and Shelf Science* ● *Fisheries Research* ● *Food Webs* ● *Frontiers in Biogeography* ● *Frontiers in Ecology and the Environment* ● German National Science Foundation ● *Global Change Biology* ● *Global Ecology and Biogeography* ● Graduate Women in Science Fellowship Program ● *Hydrobiologia* ● Italian Antarctic Research Programme (PNRA) ● James Cook University, ARC Centre of Excellence for Coral Reef Studies, PhD Confirmation of Candidature review ● *Journal of Animal Ecology* ● *Journal of the Marine Biological Association of the United Kingdom* ● *Lancet Global Health* ● *Marine Ecology Progress Series* ● National Commission for Scientific and Technological Development (CONICYT) and the Superior Council of the National Fund for Scientific & Technological Development (FONDECYT) of the Government of Chile ● National Science Center of Poland ● *Nature Communications* ● *Scientific Reports* ● *Northwest Science* ● *Pacific Science* ● *Parasites and Vectors* ● *Parasitology* ● *Perspectives in Ecology and Conservation* ● *Philosophical Transactions of the Royal Society B: Biological Sciences* ● *PLoS Neglected Tropical Diseases* ● *PLoS One* ● *Proceedings of the National Academy of Sciences of the USA* ● *Proceedings of the Royal Society of London B: Biological Sciences* ● *Science Advances* ● Swiss National Science Foundation ● *Trends in Ecology and Evolution* ● US National Science Foundation

SCIENCE WRITING

Wood CL. 2014. Adieu to an invasive flatworm? *Front Ecol Environ* **12**(4): 206.
Wood CL. 2012. Parasites aren't all in the family for primates. *Front Ecol Environ* **10**(7): 402.
Wood CL. 2011. Infectious disease: from wetland to farm and back? *Front Ecol Environ* **9**(4): 204.
Wood CL. 2011. Plight of the living dead. *Front Ecol Environ* **9**(3): 146.
Wood CL. 2009. Chilean salmon farms face deadly virus. *Front Ecol Environ* **7**(9): 460.
Wood CL. 2009. Do you want fries with that? *Front Ecol Environ* **7**(5): 234.
Wood CL and Ferguson K. 2008. Editorial: Beyond the Frontier. *Front Ecol Environ* **6**(5): 171.
Wood CL. 2007. Commercial ocean-fertilization trial moves forward. *Front Ecol Environ* **5**(6): 291.
Wood CL. 2007. New to science, but not to consumers. *Front Ecol Environ* **5**(3): 118.

SPECIALIZED SKILLS

- PADI Rescue Diver Certification (2008)
- NAUI Advanced Scuba Diver Certification (2007)
- American Academy of Underwater Scientists (AAUS) Scientific Diver Certification (2005)
- NAUI Scuba Diver Certification (2000)