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Education

The Evergreen State College	Environmental Science and Policy	B.A. 1999
Central Washington University	Resource Management (Wildlife Biol.)	M.S. 2004
University of Washington	Aquatic and Fishery Sciences (Ecology)	Ph.D. 2013

Professional Academic History

Assistant Professor, Marine Conservation Biology, Marine Ecology, University of Oregon (OU). Oregon Institute of Marine Biology. August 2015 - present.

Affiliate Assistant Professor, University of Washington (UW) Civil & Environmental Engineering. March 2017 - present.

Instructor, Ecology Between & Below Pacific Tides. UW, Friday Harbor Labs (FHL). Summer (B) 2015.

Postdoctoral Research Associate, Faculty, Washington State University (WSU), School of the Environment, Pullman WA, USA. August 2014 - 2015.

Visiting Postdoctoral Researcher, Stockholm University, Department of Ecology, Environment and Plant Sciences, Sweden (Home Institution: University of California Davis). November 2013-14.

Postdoctoral Researcher, University of Eastern Finland, Department of Biology, Joensuu. June 2013- November 2013

Graduate Teaching Fellow, NSF Ocean and Coastal Interdisciplinary Science (OACIS) GK-12 Program Fellowship, Biology, Spring Street International School, FH, UW. 2012-2013.

Graduate Teaching Assistant, Marine Invertebrate Zoology, FHL, UW. Spring 2012.

Graduate Teaching Fellow, NSF OACIS GK-12, Oceanography, Physics, Chemistry, Robotics, Friday Harbor HS, FHL, UW. 2010-2011.

Graduate Teaching Assistant, Marine Botany, FHL, UW. Summer 2011.

Graduate Research Assistant, FHL, 2010-2012. School of Aquatic and Fishery Sciences (SAFS), UW. 2007-2010.

Peer-reviewed publications (27)

27. Galloway, AWE, AL Shanks, S Groth, SR Marion, AR Thurber. 2017. Massive crab recruitment events to the shallow subtidal zone. **Ecology** 98:1468-1470 *doi:10.1002/ecy.1740*
26. Brett, MT, SE Bunn, S Chandra, AWE Galloway, F Guo, MJ Kainz, DCP Lau, P Kankaala, TP Moulton, ME Power, JB Rasmussen, SJ Taipale, JH Thorp, JD Wehr. 2017. How important are terrestrial organic carbon inputs for secondary production in freshwater ecosystems? **Freshwater Biology** *doi:10.1111/fwb.12909*
25. Hampton, SE, AWE Galloway*, and 60 additional authors. 2016. Ecology under lake ice. **Ecology Letters** 20:98-111 (*2nd Author, where author order is organized by level of contribution) *doi:10.1111/ele.12699*
24. Brett, MT, ME Eisenlord, and AWE Galloway. 2016. Using multiple tracers and directly accounting for trophic modification improves dietary mixing model performance. **Ecosphere** 7(8):e01440 *doi:10.1002/ecs2.1440* [Special Issue on Biomarkers in Trophic Ecology]
23. Dalu, T, AWE Galloway, NB Richoux, and PW Froneman. 2016. Effects of substrate on biologically important fatty acids produced by phytoplankton in an austral temperate river. **Freshwater Science** 35(4):1189-1201 *doi:10.1086/688698*
22. Taipale, SJ, AWE Galloway, SL Aalto, KK Kahilainen, U Strandberg, and P Kankaala. 2016. Terrestrial carbohydrates support freshwater zooplankton during phytoplankton deficiency. **Scientific Reports** 6:30897 *doi:10.1038/srep30897*

21. Lowe, AT, EA Roberts, and AWE Galloway. 2016. Improved marine-derived POM availability and increased pH related to freshwater influence in an inland sea. **Limnology and Oceanography** 61:2122-2138 doi: 10.1002/lno.10357
20. Duggins, DO, M Gómez-Buckley, R Buckley, AT Lowe, AWE Galloway, and MN Dethier. 2016. Islands in the stream: kelp detritus as faunal magnets. **Marine Biology** 163:art17. doi:10.1007/s00227-015-2781-y
19. Galloway, AWE, M Winder. 2015. Partitioning the relative importance of phylogeny and environmental conditions on phytoplankton fatty acids. **PLoS ONE** 10(6):e0130053. doi:10.1371/journal.pone.0130053
18. Galloway, AWE, MT Brett, GW Holtgrieve, EJ Ward, AP Ballantyne, CW Burns, MJ Kainz, DC Muller-Navarra, J Persson, JL Ravet, U Strandberg, SJ Taipale, and G Ahlgren. 2015. A fatty acid based algorithm for inferring diet in aquatic consumers. **PLoS ONE** 10(6):e0129723. doi:10.1371/journal.pone.0129723
17. Hampton, SE, MV Moore, T Ozersky, E Stanley, CM Polashenski, and AWE Galloway. 2015. Heating up a cold subject: prospects for under-ice research in lakes. **Journal of Plankton Research** 37:277-284. doi:10.1093/plankt/fbv002
16. Strandberg, U, SJ Taipale, M Hiltunen, AWE Galloway, MT Brett, and P Kankaala. 2015. Inferring heterogeneous phytoplankton composition with a fatty acid mixing model. **Ecosphere** 6:art16. doi:10.1890/ES14-00382.1
15. Lowe, AT, R Whippo, AWE Galloway, KH Britton-Simmons, and MN Dethier. 2015. Sedentary urchins influence benthic community composition below the macroalgal zone. **Marine Ecology** 36:129-140 doi: 10.1111/maec.12124
14. McDonald, PS, AWE Galloway, K McPeck, and GR VanBlaricom. 2015. Effects of geoduck (*Panopea generosa* Gould, 1850) aquaculture gear on resident and transient macrofauna communities of Puget Sound, Washington, USA. **Journal of Shellfish Research** 34:189-202. doi:10.2983/035.034.0122
13. McDonald, PS, TE Essington, JP Davis, AWE Galloway, BC Stevick, GC Jensen, GR VanBlaricom, and DA Armstrong. 2015. Distribution, abundance, and habitat associations of a large bivalve (*Panopea generosa*) in a eutrophic fjord estuary. **Journal of Shellfish Research** 34:137-145. doi:10.2983/035.034.0117
12. Galloway, AWE, S Taipale, M Hultunen, E Peltomaa, U Strandberg, MT Brett, and P Kankaala. 2014. Diet specific biomarkers show that high quality phytoplankton fuel herbivorous zooplankton in large boreal lakes. **Freshwater Biology** 59:1902-1915. doi:10.1111/fwb.12394
11. Galloway, AWE, ME Eisenlord, MN Dethier, GW Holtgrieve, and MT Brett. 2014. Quantitative estimates of isopod resource utilization using a Bayesian fatty acid mixing model. **Marine Ecology Progress Series** 507:219-232. doi:10.3354/meps10860
10. Raymond, WR, AT Lowe, and AWE Galloway. 2014. Degradation state of algal diets affects fatty acid composition but not size of red urchin gonads. **Marine Ecology Progress Series** 509:213-225. doi:10.3354/meps10888
9. Dethier, MN, A Brown, S Burgess, ME Eisenlord, AWE Galloway, J Kimber, AT Lowe, CM O'Neil, WR Raymond, EA Sosik, and DO Duggins. 2014. Degrading detritus: changes in food quality of aging kelp tissue varies with species. **Journal of Experimental Marine Biology and Ecology** 460:72-79. doi:10.1016/j.jembe.2014.06.010
8. Lowe, AT, AWE Galloway, JS Yeung, MN Dethier, and DO Duggins. 2014. Broad sampling and diverse biomarkers allow characterization of nearshore particulate organic matter. **Oikos** 123:1341-1354 doi:10.1111/oik.01392
7. Galloway, AWE, AT Lowe, EA Sosik, JS Yeung, and DO Duggins. 2013. Fatty acid and stable isotope biomarkers suggest microbe-induced differences in benthic food webs between depths. **Limnology and Oceanography** 58:1452-1462. doi:10.4319/lo.2013.58.4.1451
6. Taipale, S, E Peltomaa, U Strandberg, AWE Galloway, A Ojala, and MT Brett. 2013. Fatty acid composition as biomarkers of freshwater microalgae: analysis of 37 strains of microalgae in 22 genera and in 7 classes. **Aquatic Microbial Ecology** 71:165-178. doi:10.3354/ame01671

5. Dethier, MN, EA Sosik, AWE Galloway, DO Duggins, and CA Simenstad. 2013. Addressing assumptions: variation in stable isotopes and fatty acids in marine macrophytes can confound conclusions of food web studies. **Marine Ecology Progress Series** 478:1-14. (Feature Article). doi:10.3354/meps10310
4. Galloway, AWE, KH Britton-Simmons, DO Duggins, PW Gabrielson, and MT Brett. 2012. Fatty acid signatures differentiate marine macrophytes at ordinal and family ranks. **Journal of Phycology** 48:956-965. doi:10.1111/j.1529-8817.2012.01173.x
3. Britton-Simmons, KH, AL Rhoades, RE Pacunski, AWE Galloway, AT Lowe, EA Sosik, MN Dethier, and DO Duggins. 2012. Habitat and bathymetry influence the landscape-scale distribution and abundance of drift macrophytes and associated invertebrates. **Limnology and Oceanography** 57:176-184. doi:10.4319/lo.2012.57.1.0176
2. Galloway, AWE, RJ Hickey, and GM Koehler. 2011. A Survey of ungulates by students along rural school bus routes. **Society and Natural Resources** 24:201-204. doi:10.1080/08941920903222572
1. Galloway, AWE, MM Tudor, and M Vander Haegen. 2006. The reliability of citizen science: a case study of Oregon white oak stand surveys. **Wildlife Society Bulletin** 34:1425-1429. doi:10.2193/0091-7648(2006)34[1425:TROCSA]2.0.CO;2

Manuscripts in press, revision, and review (2)

2. Winder, M, J Carstensen, AWE Galloway, H Jakobsen, J Cloern. *In Revision*. The land-sea interface: a source of high-quality phytoplankton to support secondary production. **Limnology and Oceanography**
1. Galloway, AWE, AL Shanks. *In Press*. Opening the black box of coastal crab life history: observation of an exceptionally high-density settlement event. **Bulletin of the Ecological Society of America**

Non-peer reviewed publications, software, and data sets (5)

5. Hampton, SE, SG Labou, KH Woo•, AWE Galloway, and 10 additional authors. 2016. Dataset: Winter and summer comparison of biological, chemical, and physical conditions in seasonally ice-covered lakes. **Knowledge Network for Biocomplexity**. doi:10.5063/F12V2D1V
4. Galloway, AWE, GW Holtgrieve, EJ Ward and MT Brett. 2015. Software/program: FASTAR (Fatty Acid Source Tracking Algorithm in R) mixing model approach. **EcologyBox** (an open-source code repository for ecological modeling and statistics). <http://conserver.iugo-cafe.org/user/gway>. Last updated June 2015. [475 total downloads as of April 2017]
3. Galloway, AWE. 2013. Trophic transfer of nearshore basal resources: interpreting fatty acid and stable isotope biomarkers. **PhD Dissertation**, UW.
2. Galloway, AWE, BL Murphie. 2007. Harbor seal haulout verification in Hood Canal, WA. Unpublished internal report, Washington Department of Fish and Wildlife, Wildlife Science Program, Marine Mammal Investigations. 22 pp.
1. Galloway, AWE. 2004. The use of rural school bus routes and students for monitoring ungulate distribution in Kittitas County, Washington. **Master's Thesis**, CWU.