

Melissa R. Poe, PhD
Curriculum Vita

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PROFESSIONAL PROFILE

I am an environmental social scientist at Washington Sea Grant, University of Washington (Seattle), and a liaison/visiting research associate at NOAA Northwest Fisheries Science Center. My work focuses on social and cultural dimensions of Pacific Northwest marine ecosystems with a current focus on ocean change, food systems, and integrating local and indigenous knowledge in ecosystem-based management.

EDUCATION

Postdoc Fellow 2009-10	Institute for Culture and Ecology	Human Ecology Mapping
Ph.D., 2009	University of Washington	Environmental Anthropology
M.A., 2004	University of Washington	Anthropology
B.A., 1995	Whitworth University	Sociology; Spanish, Minor: Peace Studies

APPOINTMENTS

July 2017 – present **Lead Social Scientist and Liaison.** University of Washington, Washington Sea Grant Program, and liaison/Research Associate at NOAA Northwest Fisheries Science Center; Seattle WA

Oct 2013 – Jun 2017 **Social Scientist and Liaison.** University of Washington, Washington Sea Grant Program, and liaison/Research Associate at NOAA Northwest Fisheries Science Center

Mar 2012 – present **Director and Research Social Scientist.** Northwest Sustainability Institute, applied sustainability research firm; Seattle WA

Sept 2012 – Sept 2013 **Research Social Scientist.** Contract with NOAA Northwest Fisheries Science Center; Seattle WA

Mar 2010 – Mar 2012 **Principal Investigator, Senior Research Associate.** Institute for Culture and Ecology; Seattle, WA

Mar 2009 – Mar 2010 **Postdoctoral Fellow.** Institute for Culture and Ecology; Seattle, WA

Mar 2006 – Oct 2008 **Social Scientist/GS-11, STEP.** USDA Forest Service, Pacific Northwest Research Station, Communities & Forest Management Team; Seattle, WA

Sept 2004 – Mar 2006 **Research Assistant.** University of Washington and USDA Forest Service Pacific Northwest Station Joint Venture Agreement; Seattle, WA

Sept 2000 – Mar 2005 **Instructor, Research & Teaching Assistant.** University of Washington; Anthropology & Geography Departments, School of Environment and Forest Sciences, and Institute for Transnational Studies; Seattle WA

Mar 1996 – Aug 2003 **Program Manager, Wilderness Instructor and Guide.** Adventure Associates cultural and ecotourism; Seattle WA

PEER-REVIEW PUBLICATIONS

- Armitage, Derek, ... **Poe**, MR ... et al. (in review) "Integrating governance and natural resource management strategy evaluation (MSE) to improve social and ecological outcomes," *Bioscience*
- Leong, Kirsten; Wongbusarakum, Suipin; Ingram, Rebecca; Mawyer, Alexander; **Poe**, Melissa (in review). Improving Representation of Human Well-Being and Cultural Importance in the West Hawai'i Integrated Ecosystem Assessment, *Frontiers in Marine Science*
- Punt, André E. P; Daniel K. Okamoto, Alec D. MacCall, Andrew O. Shelton, Derek R. Armitage, Jaclyn S. Cleary, Ian P. Davies, Sherri C. Dressel, Tessa B. Francis, Phillip S. Levin, R. Russ Jones, Harvey Kitka, Lynn Chi Lee, Jim A. McIsaac, Melissa R. **Poe**, Steve Reifenhuth (2018). "When are estimates of spawning stock biomass for small pelagic fishes improved by taking spatial structure into account?" *Fisheries Research*, October 2018
- MacCall, Alec; Tessa B. Francis, André E. Punt, Derek R. Armitage, Jaclyn S. Cleary, R. Russ Jones, Harvey Kitka, Lynn C. Lee, Phillip S. Levin, Jim McIsaac, Daniel K. Okamoto, Melissa R **Poe**, Steve Reifenhuth, Jörn O. Schmidt, Andrew O. Shelton, Jennifer J. Silver, Margaret C. Siple, Thomas F. Thornton, Rudi Voss, John Woodruff. (2018) "A heuristic model of learned migration behavior exhibits distinctive spatial and reproductive dynamics", *ICES Journal of Marine Science*.
- Charnley, S; McLain, R; **Poe**, M.R. (2018) Natural Resource Access Rights and Wrongs: Nontimber Forest Products Gathering in Urban Environments. *Society and Natural Resources*
- McLain, **Poe**, Urgenson, Blahna, Buttolph, (2017) Urban Non-Timber Forest Products Stewardship Practices Among Foragers in Seattle, Washington (USA), *Urban Forestry & Urban Greening*, Volume 28: 36-42
- Breslow, S. ... **Poe**, MR, et al., (2017). Evaluating Indicators of Human Wellbeing for Ecosystem-Based Management" in *Ecosystem Health and Sustainability*, Vol 3:12
- Charnley, Susan; Carothers, C; Satterfield, T; Levine, A; **Poe**, M; Norman, K; Donatuto, J; Mascia, M; Breslow, S; Levin, P; Basurto, X; Hicks, C; Garcia-Quijano, C; St. Martin, K; Agrawal, A; Dolsak, N. (2017) Best Available Social Science for Natural Resource Decision-making. *Environmental Science & Policy*, 73 (2017): 80-88
- Poe**, M; Donatuto, J.; Satterfield, T. (2016) "Sense of Place:" Human Well-being Considerations for Ecological Restoration in Puget Sound, *Coastal Management*, 44(5)1-18.
- Hicks, C., Levine, A., Agrawal, A., Basurto, X., Breslow, S., Carothers, C., Charnley, S., Coulthard, S., Dolsak, N., Donatuto, J., Garcia Quijano, C., Mascia, M.B., Norman, K., **Poe**, M., Satterfield, T., St. Martin, K., Levin, P.S. (2016) Engage Key Social Concepts for Sustainability. *Science* April 1, 2016, Vol 352: 6281.
- Levin, P; Breslow, S; Harvey, C; Norman, K; **Poe**, M; Williams, G; Plummer, M (2016) Conceptualization of the Social-Ecological Systems of the California Current: an examination of interdisciplinary science supporting ecosystem-based mgt. *Coastal Management*, 44(5)1-12.
- Breslow, S. ... **Poe**, MR, et al., (2016). Conceptualizing and Operationalizing Human Wellbeing for Ecosystem-Based Management. *Environmental Science & Policy*
- Harvey, C.J., Reum, J.C.P, **Poe**, M.R., Williams, G.D, and Kim, S.J. (2016). Using conceptual models and qualitative network models to advance integrative assessments of marine ecosystems, *Coastal Management*, 44(5)1-18.
- Poe**, M; Levin, P; Tolimieri, N; Norman, K (2015) Subsistence Fishing in a 21st Century Capitalist Society: from commodity to gift. *Ecological Economics* 116:241-250.
- Wassilie, K; **Poe**, M. (2015) Pacific Walrus and Coastal Alaska Native Subsistence Hunting: Considering Vulnerabilities from Ocean Acidification, *Earthzine*

- Charnley, S; **Poe**, M; Spies, T; Ager, A; Platt, E; Olsen, K. (2015) "A Burning Problem: Social Dynamics of Disaster Risk Reduction through Wildfire Mitigation in the Western United States," *Human Organization* 74:329-340.
- Poe**, M. R., Norman, K. C., & Levin, P. S. (2014). Cultural Dimensions of Socioecological Systems: Key Connections and Guiding Principles for Conservation in Coastal Environments. *Conservation Letters*, 7(3), 166-175.
- Poe**, M. R., LeCompte, J., McLain, R., & Hurley, P. (2014). Urban Foraging and the Relational Ecologies of Belonging. *Social & Cultural Geography*, 15(8): 901-919.
- McLain, R. J., Hurley, P. T., Emery, M. R., & **Poe**, M. R. (2014). Gathering "wild" food in the city: rethinking the role of foraging in urban ecosystem planning and management. *Local Environment*, 19(2), 220-240.
- Poe**, M; McLain, R; Emery, M; Hurley, P. (2013). "Urban Forest Justice and Rights to Wild Foods, Medicines and Materials in the City," *Human Ecology* Vol 41(3) 409-422.
- McLain, R, **Poe**, M, Biedenweg, K, Cervený, L, Besser, D and Blahna, D. 2013. "Making sense of human ecology mapping: Approaches to integrating sociocultural data into GIS-based environmental planning." *Human Ecology*. Volume 41 (5): 651-665
- McLain, R; **Poe**, M; Hurley, P; LeCompte-Mastenbrook, J; Emery, M. (2012). "Producing Edible Landscapes in Seattle" *Urban Forests Urban Greening*, Volume 11, Issue 2.
- Charnley, S & **Poe**, M.R. (2007). "Community Forestry in Theory and Practice: Where are We Now?" *Annual Review of Anthropology*, Volume 36: 301-336.

EDITED VOLUMES AND BOOK CHAPTERS

- Levin, P.S. and **Poe** M.R. Editors. (2017). *Conservation in the Anthropocene Ocean: Interdisciplinary Science in Support of Nature and People*. Academic Press, San Diego, CA.
- Poe**, M.R. and Levin, P.S. (2017) "Looking Forward: Interconnectedness in the Anthropocene Ocean" in *Conservation in the Anthropocene*, eds. Levin and Poe, Academic Press, San Diego, CA, pp: 481-490
- Poe**, M. R., LeCompte, J., McLain, R., & Hurley, P. (2016). "Urban Foraging and the Relational Ecologies of Belonging." *Vegetal Politics: Belonging, Practices and Places*, eds. Lesley Head, Jennifer Atchison, Catherine Phillips, Kathleen Buckingham. Routledge, New York, NY.
- Hurley, P; Emery, M; McLain, R; **Poe**, M; Grabbatin, B; Goetcheus, C. (2014) "Whose Urban Forest? The Political Ecology of Foraging Urban Nontimber Forest Products" in Isenhour, Cindy, Gary McDonogh, and Melissa Checker, eds. *Sustainability in the Global City: Myth and Practice*. Cambridge University Press, 2014: 187-212.
- Poe**, Melissa R. (2009). Wild Mushrooms, Forest Governance, and Conflict in the Northern Sierra of Oaxaca. *PhD Thesis*. University of Washington, Seattle.

TECHNICAL PUBLICATIONS & REPORTS

- Harvey, CJ; Garfield,... **Poe**, et al (2017) Ecosystem status report of the California Current for 2017: a summary of ecosystem indicators compiled by the California Current Integrated Ecosystem Assessment Team; NOAA technical memorandum NMFS-NWFSC ; 139
- Poe**, Melissa; Donatuto, Jamie; Wilbur, Matika; Gregory, Robin. (2016). *Ocean Changes and Squaxin Island Tribal Community Health and Wellbeing*. A report in partial fulfillment of a National Library of Medicine #1R24LM011809-01 for the project, Developing Indigenous Health Indicators to Reflect Community Health Priorities.
- Poe**, M.R. (2016, 2014). Section author: "Personal Use: Subsistence and Informal Economic Practices Among Commercial Fisheries" in the *Annual State of the California Current*, A report of the NMFS Northwest and Southwest Fisheries Science Centers Integrated Ecosystem Assessment. <http://www.pcouncil.org/ecosystem-based-management/annual-state-of-the-california-current-ecosystem/>

- Martone, R; Mach M; Walecka, H; Kappel, C; Scarborough, C; Halpern, B; Samhouri, J; Stier, A; **Poe, M**; Levin, P. (2016). *Gwaii Haanas Marine Ecological Indicators: A synthesis of marine ecological indicators assessed for their suitability for monitoring species, habitats, food webs, and drivers in Gwaii Haanas marine ecosystems*. Ocean Tipping Points, Center for Ocean Solutions, National Center for Ecological Analysis and Synthesis and the National Oceanographic and Atmospheric Administration. 90pp.
- Poe, M.R.**, Watkinson, M; Trosin, B; Decker, K. (2015) *Social Indicators for Washington Coast Integrated Ecosystem Assessment*. Report to Washington Department of Natural Resources in fulfillment of Interagency Agreement IAA 14-204. *Washington Sea Grant WSG-TR 15-07*.
- Donatuto, J and **Poe, M.** (2015). Evaluating Sense of Place as a Domain of Human Well-Being for Puget Sound Restoration. Technical Report to Puget Sound Institute, Tacoma, WA
- Breslow, S; Holland, D; Levin, P; Norman, K; **Poe, M**; et al. (2014) "Human Dimensions of the CCIEA." in: Harvey, C.J., N. Garfield, E.L. Hazen and G.D. Williams (eds.). *The California Current Integrated Ecosystem Assessment: Phase III Report*. Available from <http://www.noaa.gov/jea/CCIEA-Report/>
- Dillingham C, **Poe M**, et.al. (2008). "Northwest Forest Plan-The First Ten Years: Socioeconomic Monitoring of the Okanogan-Wenatchee National Forest and Five Local Communities," *PNW Research Station Gen. Tech. Report, PNW-GTR-761*.

RESEARCH ACTIVITIES

Current and On-going

- **Olympic Coast as a Sentinel: An Integrated Social-Ecological Regional Vulnerability Assessment to Ocean Acidification** (co-Lead Principal Investigator with Jan Newton); an applied science collaboration with Quinault Indian Nation, the Hoh, Quileute and Makah Tribes, Olympic Coast National Marine Sanctuary, NOAA PMEL, and Washington Sea Grant; Funded by NOAA Ocean Acidification Program, 2017-2019
- **Community Resilience to Climate Vulnerability in California Current Fisheries** (ethnography project lead), part of National Science Foundation funded project, "Coupled Natural and Human Systems Research: The Dynamics of Adaptation to Climate-Driven Variability in California Current Fisheries and Fishing Communities" with lead Josh Abbott, and co-PIs Dan Holland, Malin Pinsky, Melissa Poe and Andre Punt; 2016-2020.
- **NOAA Integrated Ecosystem Assessment of the California Current**; collaborating scientist, and co-chair of the national Human Dimensions Working Group, Northwest Fisheries Sciences Center, Seattle, September 2012-present.
- **Reviving the Past to Protect the Future: developing a social-ecological clam garden site selection model**, collaborating scientist with Lead PIs: Jamie Donatuto and Jamie Barber, Swinomish Indian Tribal Community, funded by Washington Sea Grant, 2018-2020.
- **Ocean Tipping Points, Cultural-Ecological dimensions of Pacific Herring and other Fisheries in Haida Gwaii**; co-principal investigator with PIs Carrie Kappel and Phil Levin, National Center for Ecological Analysis and Assessment in partnership with Gwaii Haanas Parks Canada and the Council of the Haida Nation, September 2014-present.
- **Ocean Modeling Forum, Pacific Herring**; collaborating scientist, 2016-present.
- **Puget Sound Partnership Social Science Advisory Committee to the Science Panel**; Advisor, 2012-present.
- **State of Alaska Salmon and People Well-being Working Group, National Center for Ecological Analysis and Assessment**, Advisor, 2016-present.
- **Integrated Risk Assessment** working group, with Emma Hodgson, Tim Essington, Jameal Samhouri, University of Washington, May 2017-present

- **Methods and applications of integrating social and ecological sciences in qualitative network modeling**, with Chris Harvey (NOAA Lead) 2017-present

Previous

- **Social Wellbeing Indicators for Marine Management**; collaborating scientist, NOAA-UW-Washington Sea Grant social science collaboration and expert working group, Seattle, 2012-September 2017.
- **Coastal Almanac**: Mapping Indigenous and Local Environmental Knowledge and Community-Based Science Workshop, participant, University of Washington, 2017
- **Ocean Change and Indigenous Health and Wellbeing**; co-principal investigator, collaboration with Squaxin Island Tribe, and Co-PI Jamie Donatuto, March 2015-2016.
- **Evaluating Community Wellbeing as a Place-Based Cultural Ecosystem Service of the Puget Sound Region of the Salish Sea**, co-principal investigator with Jamie Donatuto, Swinomish Indian Tribal Community and Squaxin Island Tribe, July 2013-December 2014.
- **Tides of Change: Ocean change and implications for fisheries and fishing communities**; Science Panelist, Congressional Science Briefing with COMPASS, Washington, DC, June 28, 2016.
- **NOAA Workshop on Increasing Resilience of Fishing Communities in a Changing Climate**; collaborating scientist and facilitator, May 3-5, 2016, Silver Spring, MD.
- **Cultural Dimensions of Ecosystem-based Fisheries Management**; Lenfest Fishery Ecosystem Taskforce, contributing scientist, September 2014
- **Green Cities Research Alliance**; collaborating scientist, interdisciplinary effort on urban sustainability (www.fs.fed.us/pnw/research/gcra/), Seattle, 2009-2017
- **Cultural Values Mapping on the Olympic Peninsula**, with Lee Cerveney, USDA Forest Service and Rebecca McLain, Institute for Culture and Ecology, 2009-2010
- **Indigenous community forestry, wild mushroom and plant harvesting, and regional livelihoods in Oaxaca, Mexico** (social, cultural, political, historical, ecology and community economic dynamics), lead, 2002-2009
- **Community and Institutional Capacity for Wildland Fire Restoration**, collaboration with Susan Charnley (lead), USDA Forest Service, 2006-2009
- **Socioeconomic Monitoring of the Northwest Forest Plan**, collaboration with Susan Charnley (lead), USDA Forest Service, 2004-2006

PROFESSIONAL AND COMMUNITY SERVICE

- **Diversity, Equity and Inclusion Committee**, College of the Environment, Univ of Washington
- **Indigenous and Local Knowledge Visioning Network**, Sea Grant 10 year strategic vision
- **West Hawaii Integrated Ecosystem Assessment**, Advisor, 2017-present
- **Northwest Tribal Climate Change Network**, participant, 2013-present
- **Doris Duke Conservation Scholars Program**, UW Faculty mentor, Conservation Ethnography Practice Team, 2017
- **Olympic Coast Exploration**, E/V Nautilus, Ocean Exploration Trust, Scientist on Board, 2017
- **Review Panel**, Human Dimensions and Economics Program 5 year Review, Pacific Islands Fisheries Science Center, NOAA Fisheries, Honolulu HI, 2017
- **Board of Directors**, City Fruit, stewardship & food security organization, Seattle, 2014 to 2017
- **Academic Reviews**, Conservation Biology, Coastal Management, Ecological Economics, Human Ecology, Journal of Ethnobiology, Elsevier Academic Press, SeaDoc
- **Traditional Foods Wellness Network**, Seattle Children's Hospital/Ronald McDonald House, assist coordination of traditional foods donations for indigenous patients/families, 2011-2014
- **Climate Change and Salish Food Systems**, Salish Sea Ecosystem Conference, Panel Chair, 2016

- **Fishing for Food: the role of fish in local, regional and national food systems** in North America, Society for Applied Anthropology Conference, Vancouver BC, Panel Chair, 2016
- **Collaborations in a Climate of Change: Addressing Environmental Challenges through Culturally Appropriate Intersections of Research, Policy and Practice**, Society for Applied Anthropology Conference, Discussant, Vancouver BC, 2016
- **Community considerations in fisheries systems, examining the impacts of privatization**, Society for Applied Anthropology Conference, Discussant, Pittsburgh, PA 2015
- **Coastal food systems in North America: interactions, livelihoods, environmental change and governance**, Society for Applied Anthropology, Panel Chair, Albuquerque, NM 2014
- **Puget Sound Regional Food Policy Council Equity Subcommittee**, 2011 to 2013
- **Indigenous Ecological Knowledge**, Workshop Co-facilitator, Seattle Race Conference, 2012
- **Traditional Plants & Foods program**, Collaborator, Northwest Indian College, 2009-2012
- **Traditional Food Summit** Planning Committee, a collaborative Native-led summit to discuss cultural, political, and ecological dimensions of aboriginal food practices, Seattle, March 2011
- **Diversity Committee member**, Univ of Washington, Dept of Anthropology, Seattle, 2006-08
- **Teaching Effectiveness Committee**, UW Dept. of Anthropology, Seattle, 2002-2004
- **Environment and Society Interdisciplinary Forum** Coordinator, UW, Seattle, 2001-02
- **Affirmative Action Committee and Sexual Harassment Policy Task Force**, Whitworth University, 1990-1992

STUDENTS MENTORED

Deborah Bitanga (Evergreen State College, Economics) Lauren Drakopoulos (UW Geography), Mira Klein (Wesleyan, Environmental Studies), Joyce LeCompte (UW Anthropology), Sonni Tadlock (UW School of Public Health), Lauren Urgenson (UW School of Environment and Forest Science), Melissa Watkinson (UW-Bothell Policy Studies)

AWARDS AND HONORS

- **Postdoctoral Fellow**, Institute for Culture and Ecology, *Human Ecology and Cultural Values Participatory Mapping*; Seattle Mar 2009 – Mar 2010
- **Invited Scholar**, National Science Foundation course on Research Methods in Ethnoecology, Duke University Marine Lab, Beaufort, NC, 2010
- **Graduate Research Fellow**, Doctoral Research, *Community and Indigenous Forestry in Oaxaca Mexico*; Dept of Anthropology, U of Washington; Seattle, WA Sept 2001– Mar 2009
- **Merit Award for Superior Performance**, USDA Forest Service, Pacific Northwest Research Station
- **Civil Rights Competitive Award**, USDA Forest Service, Pacific Northwest Research Station
- **Graduate Opportunity Minority Affairs Program Fellowship**, University of Washington
- **Distinguished Dissertation nominee**, University of Washington
- **Merit Scholarship**, Baldwin Scholarship, University of Washington
- **Chester Fritz Graduate Fellowship**, University of Washington
- **Sociology-in-Action Award**, Whitworth University

POPULAR PRESS COVERAGE & PUBLIC SCHOLARSHIP

Science Magazine, Huffington Post, National Geographic, Scientific American, Science Daily, NPR, Public Radio International, KUOW, Burke Museum “Food Talks”, Earthzine, University of Washington Today, NOAA Feature Stories, Encyclopedia of Puget Sound, Taylor and Francis Animated Abstracts, Sea Star WA Sea Grant Newsletter; twitter handle: “mpoetree”

PROFESSIONAL SOCIETIES AND MEMBERSHIPS

Society for Applied Anthropology

Society for Conservation Biology

Association of American Geographers

American Fisheries Society