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Education

Ph.D., Zoology, University of Washington (2002)
M.S., Fishery and Aquatic Science, Cornell University (1995)
B.S., Zoology, University of Wisconsin (1991)

Professional experience

<i>Assistant Unit Leader</i> USGS Washington Cooperative Fish and Wildlife Research Unit	2019 - present
<i>Associate Professor</i> School of Aquatic and Fishery Sciences, University of Washington	2019 - present
<i>Research Fisheries Biologist</i> Northwest Fisheries Science Center, NOAA Fisheries	2003 - 2019
<i>Affiliate Associate Professor</i> School of Aquatic and Fishery Sciences, University of Washington	2016 - 2019
<i>Affiliate Assistant Professor</i> School of Aquatic and Fishery Sciences, University of Washington	2007 - 2016

Other professional activities

Member, Chinook Salmon Expert Panel, Arctic-Yukon-Kuskokwim Sustainable Salmon Initiative (2011-2012)
Member, Expert Advisory Panel, Pacific Salmon Commission Bilateral Scientific Workshop to Examine the Decline in Fraser River Sockeye (2010)
Member, Biological Review Team, National Marine Fisheries Service Risk Assessment of Oregon Coast Coho Salmon (2009-2010)

Relevant publications

Holmes EE, Ward EJ, **Scheuerell MD**. 2020. Analysis of multivariate time-series using the MARSS package, Version 3.10.12. <http://cran.r-project.org/web/packages/MARSS/vignettes/UserGuide.pdf>.
Scheuerell MD, Ruff CP, Anderson JH, Beamer EM. *In press*. An integrated population model for estimating the relative effects of natural and anthropogenic factors on a threatened population of steelhead trout. *Journal of Applied Ecology*

- Buhle ER, **Scheuerell MD**, Cooney TD, Ford MJ, Zabel RW, Thorson JT. 2018. Using Integrated Population Models to Evaluate Fishery and Environmental Impacts on Pacific Salmon Viability. U.S. Department of Commerce, NOAA Technical Memorandum NMFS-NWFSC-140.
- Bal G, **Scheuerell MD**, Ward EJ. 2018. Characterizing the strength of density dependence in at-risk species through Bayesian model averaging. *Ecological Modelling* 381:1-9
- Honea JM, McClure MM, Jorgensen JC, **Scheuerell MD**. 2016. Assessing the vulnerability of freshwater life stages of Chinook salmon to climate change. *Climate Research* 71:127-137
- Goertler PAL, **Scheuerell MD**, Simenstad CA, Bottom DL. 2016. Estimating common growth patterns in juvenile Chinook salmon (*Oncorhynchus tshawytscha*) from diverse genetic stocks and a large spatial extent. *PLoS ONE* 11:e0162121
- Ohlberger J, **Scheuerell MD**, Schindler DE. 2016. Population coherence and environmental impacts across spatial scales: a case study of Chinook salmon. *Ecosphere* 7:e01333
- Jorgensen JC, Ward EJ, **Scheuerell MD**, Zabel RW. 2016. Assessing spatial covariance among time series of abundance. *Ecology and Evolution* 6:2472–2485
- Scheuerell MD**, Buhle ER, Semmens BX, Ford MJ, Cooney T, Carmichael RW. 2015. Analyzing large-scale conservation interventions with Bayesian hierarchical models: A case study of supplementing threatened Pacific salmon. *Ecology and Evolution* 5:2115–2125
- Griffiths JR, Schindler DE, Armstrong JB, **Scheuerell MD**, Whited DC, Clarke RA, Hilborn R, Holt CA, Lindley ST, Stanford JA, Volk EC. 2014. Performance of salmon fishery portfolios across western North America. *Journal of Applied Ecology* 51:1554–1563
- Stachura MM, Mantua NJ, **Scheuerell MD**. 2014. Oceanographic influences on spatio-temporal patterns in North Pacific salmon abundance. *Canadian Journal of Fisheries and Aquatic Sciences* 71:226-235
- Thorson JT, **Scheuerell MD**, Buhle ER, Copeland T. 2014. Spatial diversity buffers temporal variability in early juvenile survival for an endangered Pacific salmon. *Journal of Animal Ecology* 83:157–167
- Schindler D, Krueger C, Bisson P, Bradford M, Clark B, Conitz J, Howard K, Jones M, Murphy J, Myers K, **Scheuerell M**, Volk E, Winton J. 2013. Arctic-Yukon-Kuskokwim Chinook Salmon Research Action Plan: Evidence of Decline of Chinook Salmon Populations and Recommendations for Future Research. Prepared for the AYK Sustainable Salmon Initiative, Anchorage, Alaska. v + 70 p.
- Holsman KK, **Scheuerell MD**, Buhle ER, Emmett R. 2012. Interacting effects of translocation, artificial propagation, and environmental conditions on the marine survival of Chinook salmon from the Columbia River, Washington, U.S.A. *Conservation Biology* 26:912-922
- Crozier LG, **Scheuerell MD**, Zabel RW. 2011. Using time series analysis to characterize evolutionary and plastic responses to environmental change: a case study of a shift toward earlier migration date in sockeye salmon. *The American Naturalist* 178:755-773
- Scheuerell MD**, Zabel RW, Sandford BP. 2009. Relating juvenile migration timing and survival to adulthood in two species of threatened Pacific salmon (*Oncorhynchus* spp.). *Journal of Applied Ecology* 46:983–990
- Buhle ER, Holsman KK, **Scheuerell MD**, Albaugh A. 2009. Using an unplanned experiment to evaluate the effects of hatcheries and environmental variation on threatened populations of wild salmon. *Biological Conservation* 142:2449–2455
- Waples RS, Zabel RW, **Scheuerell MD**, Sanderson BL. 2008. Evolutionary responses by native species to major anthropogenic changes to their ecosystems: Pacific salmon in the Columbia River hydropower system. *Molecular Ecology* 17:84-96