

**Mark D. Scheuerell**  
USGS Washington Cooperative Fish and Wildlife Research Unit  
School of Aquatic and Fishery Sciences  
University of Washington  
Seattle, WA 98195-5020  
scheuerl@uw.edu  
206.543.5997

## Education

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

## Employment

<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

## Professional recognition

Presidential Early Career Award for Scientists and Engineers, White House Office of Science and Technology Policy, Washington, District of Columbia (2006)  
Member, Ecological Society of America  
Member, Association for the Sciences of Limnology and Oceanography  
Member, American Fisheries Society

## Graduate students and post-doctorates supervised

### Post-doctoral

Guillaume Bal (2012-2013, co-advised with EJ Ward)  
Daniel Pendleton (2010-2012, co-advised with EE Holmes)  
Jim Thorson (2011, co-advised with EE Holmes & EJ Ward)  
Daniel Pendleton (2010-2012, co-advised with EE Holmes)  
Jim Thorson (2011, co-advised with EE Holmes & EJ Ward)  
Kirstin Holsman (2007-2010)  
Eric Buhle (2007-2009)

## M.S. students

Kelly Mistry, Univ Washington (2020-present)

Markus Min, Univ Washington (2020-present)

## Principal publications related to this proposal

Magel C, **Scheuerell MD**, Buhle ER, Lewis DJ, Weeber M, Hacker SD. In review. Estuary and upland habitats are equally important for the production of threatened Oregon Coast coho salmon populations

DeFilippo LB, Buehrens TW, **Scheuerell MD**, Kendall NW, Schindler DE. In review. Improving short-term recruitment forecasts for coho salmon using a spatiotemporal integrated population model

**Scheuerell MD**, Ruff CP, Anderson JH, Beamer EM. 2021. 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* 58:114-124

Thorson JT, **Scheuerell MD**, Olden JD, Schindler DE. 2018. Spatial heterogeneity contributes more to portfolio effects than species differences in bottom-associated marine fishes. *Proceedings of the Royal Society B* 285:20180915

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.

Ward EJ, Oken K, Rose KA, Sable S, Watkins K, Holmes EE, **Scheuerell MD**. 2018. Applying spatiotemporal models to monitoring data to quantify fish responses to the Deepwater Horizon oil spill in the Gulf of Mexico. *Environmental Monitoring and Assessment* 190:530

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

Ardón M, Helton AM, **Scheuerell MD**, Bernhardt ES. 2017. Fertilizer legacies meet saltwater incursion: challenges and constraints for coastal plain wetland restoration. *Elementa: Science of the Anthropocene* 5:41

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

**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

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