Ian M. Miller, PhD

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Blog: http://coastnerd.blogspot.com
YouTube: https://www.youtube.com/user/CoastNerd

PROFESSIONAL PROFILE

I am a Coastal Hazards Specialist for the Washington Sea Grant program, where I use applied research, outreach and science synthesis to build coastal community resilience to natural coastal hazards. I am also adjunct faculty at Peninsula College in Port Angeles, WA. My research interests include sea level, coastal geomorphology, sediment transport, biophysical interactions in the coastal environment and the application of these disciplines to management problems related to hazards and climate change. I also am interested in undergraduate education methods and pedagogy in the ocean and earth sciences.

ACADEMIC QUALIFICATIONS

2011 PhD. Department of Ocean Sciences, UC Santa Cruz. Dissertation titled, "Mixed beach morphodynamics and shoreline evolution on the dammed Elwha River Delta, Washington State, USA". Advisors: Drs. Gary Griggs, Jon Warrick, Noah Finnegan, and Chris Edwards.

1996 Bachelors of Science, cum laude. Degree in Environmental Science with an emphasis in Marine Ecology. Huxley College of Environmental Studies, Western Washington University. Advisor: Dr. Bert Webber.

1995 Quarter-in-residence. Oregon Institute of Marine Biology, University of Oregon.

1994 National Science Foundation Research Experience for Undergraduates Fellow. University of Hawaii at Manoa. Advisors: Drs. Ed Parnell and Craig Smith.

SELECT PUBLICATIONS

2019 **Miller, I.M**., Yang, Z., VanArendonk, N., Grossman, E., Mauger, G. S., Morgan, H., 2019. Extreme Coastal Water Level in Washington State: Guidelines to Support Sea Level Rise Planning. A collaboration of Washington Sea Grant, University of Washington Climate Impacts Group, Oregon State University, University of

Washington, and U.S. Geological Survey. Prepared for the Washington Coastal Resilience Project.

Warrick, J.A., Stevens, A.W., **Miller, I.M.**, Harrison, S.R., Ritchie, A.C. and G. Gelfenbaum. 2019. World's largest dam removal reverses coastal erosion. Scientific Reports.

2018 **Miller, I.M.** 2018. A coastal scientist's perspective on dam removal. International Water Power and Dam Construction. December 2018: pp. 42-44

Miller, I.M., Morgan, H., Mauger, G., Newton, T., Weldon, R., Schmidt, D., Welch, M., Grossman, E. 2018. Projected Sea Level Rise for Washington State – A 2018 Assessment. A collaboration of Washington Sea Grant, University of Washington Climate Impacts Group, Oregon State University, University of Washington, and US Geological Survey. Prepared for the Washington Coastal Resilience Project. Available at http://www.wacoastalnetwork.com/wcrp-documents.html

2017 Rubin, S.P., **Miller, I.M.**, Foley, M.M., Berry, H.D., Duda, J.J, Hudson, B., Elder, N.E., Beirne, M.M., Warrick, J.A., McHenry, M.L, Stevens, A.W. and E.F. Eidam. 2017. Increased sediment load during a large-scale dam removal changes nearshore communities. PLoS ONE 12(12): e0187742. https://doi.org/10.1371/journal.pone.0187742

Garrison-Laney, C., and **I.M. Miller**. 2017. Tsunamis in the Salish Sea: Recurrence, Sources, Hazards. Field Trip Guidebook for Geological Society of America 2017 Meeting. Seattle, Washington; 22-25 October 2017

RECENT TEACHING/EDUCATION

1x/year, 2012-present **Instructor,** OCEA 101, Introduction to Oceanography. Peninsula College, Port Angeles, WA

1x/year, 2014, 2016 and 2018 **Co-Instructor**, Ocean 492, Marine Sedimentary Processes: Elwha River Dam Removal Impacts Research Apprenticeship. University of Washington, Friday Harbor, WA. Lead Instructor: Dr. Andrea Ogston

RECENT GRANTS, AWARDS and HONORS

2019
- Outstanding Community Impact Award, University of Washington College of the Environment

2018
- Exceptional Faculty Grant Award, Peninsula College
- US Geological Survey Unit Award for Excellence of Service for the Elwha River Science Team