

BIOGRAPHY – RYAN P. KELLY

University of Washington; School of Marine and Environmental Affairs; rpkelley@uw.edu

A. Professional Preparation

University of California, Los Angeles. Organismic Biology, Ecology, and Evolution. B.Sc. 2000
Columbia University. Ecology, Evolution, and Environmental Biology. M.A. 2003.
Columbia University. Ecology, Evolution, and Environmental Biology. Ph.D. 2006.
Stanford University. Postdoctoral Training in Marine Ecology and Evolution 2006-2008.
University of California, Berkeley. School of Law (Boalt Hall). J.D. 2011.

B. Appointments

March 2013 – Present: Asst. Professor, School of Marine and Environ. Affairs, University of Washington.
September 2011 – March 2013: Fellow, Center for Ocean Solutions, Stanford University.
August 2009 – May 2011: Graduate Student Instructor, UC Berkeley.
September 2006 – August 2008: Postdoctoral researcher, Stanford University.

C. Related Products

Kelly, R.P., J.A. Port, K.M. Yamahara, R.G. Martone, N. Lowell, P.F. Thomsen, M.E. Mach, E. Prahler, M.R. Caldwell, and L.B. Crowder. 2014. Harnessing DNA to Improve Environmental Management, *Science* 344 (6191): 1455-1456. doi:10.1126/science.1251156.
Kelly, R.P., J.A. Port, K.M. Yamahara, and L.B. Crowder. 2014. Using Environmental DNA to Census Marine Fishes in a Large Mesocosm. *PLoS ONE* 9(1): e86175. doi:10.1371/journal.pone.0086175.
Kelly, R.P., and S.R. Palumbi. 2010. Genetic Structure Among 50 Species of the Northeastern Pacific Rocky Intertidal Community. *PLoS ONE* 5(1): e8594. doi:10.1371/journal.pone.0008594.
Kelly, R.P. and D.J. Eernisse. 2007. Southern Hospitality: A Latitudinal Gradient in Gene Flow in the Marine Environment. *Evolution* 61(3): 700-707. DOI: 10.1111/j.1558-5646.2007.00055.x
Kelly, R.P., I.N. Sarkar, D.J. Eernisse, and R. Desalle. 2007. DNA Barcoding Using Chitons (genus *Mopalia*). *Molecular Ecology Notes* 7: 177-183. DOI: 10.1111/j.1471-8286.2006.01641.x

Other Significant Products

Marshall, K., A. Stier, J. Samhouri, R.P. Kelly, E. Ward. 2015. Conservation Challenges of Predator Recovery (*Online Early*, *Conservation Letters*). doi: 10.1111/conl.12186.
Gattuso, J.-P., A. Magnan, R. Billé, W.W.L. Cheung, E.L. Howes, F. Joos, D. Allemand, L. Bopp, S. Cooley, C.M. Eakin, O. Hoegh-Guldberg, R.P. Kelly, H.-O. Pörtner, A.D. Rogers, J.M. Baxter, D. Laffoley, D. Osborn, A. Rankovic, J. Rochette, U.R. Sumaila, S. Treyer, C. Turley. 2015. Contrasting Futures for Ocean and Society from Different CO₂ Emissions Scenarios. *Science* 349 (6243): aac4722. DOI: 10.1126/science.aac4722.
Kelly, R.P., A. Erickson, L. Mease, W. Battista, J. Kittinger, R. Fujita. 2015. Embracing Thresholds for Better Environmental Management. *Philosophical Transactions of the Royal Society B* 370: 20130276. doi: 10.1098/rstb.2013.0276.
Kelly, R.P. 2011. Spineless Wonders: How Listing Marine Invertebrates and their Larvae Challenges the US Endangered Species Act. 19 Penn State Environmental Law Review 1-53.
http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1676435
Kelly, R.P. 2010. The Use of Population Genetics in Endangered Species Act Listing Decisions. 37 Ecology Law Quarterly 1107-1159. http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1583230

D. Synergistic Activities

1) Developed and taught interdisciplinary class on linkages between U.S. natural resources law and policy and the biological mechanisms that generate those natural resources. Taught at UW and Stanford in 2012 and 2014.

- 2) Participated in Washington Governor Gregoire's Blue Ribbon Panel on Ocean Acidification in 2012. In California, provided science and policy briefings for state and regional agencies.
- 3) Developed and taught population connectivity workshop in summer 2012 on marine population genetics and law/policy to community college professors from underrepresented Pacific Island territories and nations.
- 4) Successfully argued for expanding endangered black abalone (*Haliotis cracherodii*) critical habitat along the west coast of North America in 2011, by introducing information about the development and life history of that species into the Federal Register.
- 5) Taught science enrichment weekly in 7th and 8th grade classrooms in New York City during school years 2003-04 and 2004-05 as part of an NSF GK-12 grant to Columbia University. Brought cutting-edge science of genetics and systematics into middle school classrooms where enrollment consisted almost entirely of underrepresented students.

E. Collaborators & Co-Editors

Allemand, Denis, Centre Scientifique de Monaco; Barshis, Daniel, Old Dominion Univ; Barth, Jack, Oregon State Univ; Battista, Willow, Environmental Defense Fund; Baxter, John, Scottish Natural Heritage; Billé, Raphaël, Institut d'Etudes Politiques de Paris, France; Bopp, Laurent, Université de Versailles Saint-Quentin-en-Yvelines, France; Caldwell, Margaret, Stanford Univ; Cheung, William, Univ of British Columbia; Cooley, Sarah, Woods Hole Oceanographic Institute; Eakin, Mark, National Oceanic and Atmospheric Administration; Eernisse, Douglas, California State Univ, Fullerton; Erickson, Ashley, Stanford Univ; Feely, Richard, National Oceanic and Atmospheric Association; Fisher, William, U.S. Environmental Protection Agency; Foley, Melissa, Stanford Univ; Fujita, Rod, Environmental Defense Fund; Gattuso, Jean-Pierre, l'Observatoire Océanologique de Villefranche-sur-Mer, France; Halpern, Benjamin, National Center for Ecological Analysis and Synthesis; Hoegh-Guldberg, Ove, Univ of Queensland, Australia; Howes, Ella, Alfred Wegener Institute, Germany; Jacobs-Palmer, Emily, Harvard Univ; Joos, Fortunat, Univ of Bern, Switzerland; Kittinger, Jack, Conservation International; Klinger, Terrie, Univ of Washington; Kroeker, Kristy, Univ of California at Santa Cruz; Laffoley, Dan, IUCN; Lowell, Natalie, Univ of Washington; Mach, Megan, Stanford Univ; Magnan, Alexandre, Institute for Sustainable Development and International Relations, France; Marshall, Kristin, National Marine Fisheries Service; Martone, Rebecca, Stanford Univ; Mease, Lindley, Stanford Univ; Menge, Bruce, Oregon State Univ; Oliver, Thomas, Univ of Hawai'i; Osborn, David, International Atomic Energy Agency; Palumbi, Stephen, Stanford Univ; Port, Jesse, Stanford Univ; Pörtner, Hans-Otto, Alfred Wegener Institute, Germany; Prahler, Erin, California Coastal Commission; Rankovic, Aleks, Harvard Univ; Rochette, Julien, Institute for Sustainable Development and International Relations, France; Rodgers, Alex, Univ of Oxford, U.K.; Samhuri, Jameal, National Marine Fisheries Service; Sivasundar, Arjun, Univ of Bern, Switzerland; Sotka, Erik, College of Charleston; Stier, Adrian, National Marine Fisheries Service; Strong, Aaron, Stanford Univ; Sumaila, Rashid, Univ of British Columbia; Teneva, Lida, Stanford Univ; Thomsen, Philip, Univ of Copenhagen; Treyer, Sebastien, Institute for Sustainable Development and International Relations, France; Turley, Carol, Plymouth Marine Laboratory, U.K.; Waldbusser, George, Oregon State Univ; Ward, Eric, National Marine Fisheries Service; Yamahara, Kevan, Monterey Bay Aquarium Research Institute.

Master's Advisor: David K. Jacobs, University of California Los Angeles; *PhD Advisor:* Rob Desalle, Columbia University, American Museum of Natural History; *Co-advisor:* Andrew Baker, University of Miami, Rosenstiel School of Marine and Atmospheric Science; *Postdoctoral Advisor:* Stephen R. Palumbi, Stanford University, Hopkins Marine Station. Total Advisors: 4.

UW Graduate Students: Natalie Lowell, Mikaela Freeman, Colleen Crotty, Erin Ryan-Penuela, Sebastien Clos-Versailles, Gretchen Thuesen, Max Mossler

Postdoctoral Scholars: Jimmy O'Donnell (UW)

Total Students and Postdocs: 8