

## **Malin L. Pinsky**

Department of Ecology, Evolution, and Natural Resources  
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### **EDUCATION**

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- 2006-2011 Ph.D. in Biology, Stanford University. Committee: Stephen Palumbi (advisor), Fiorenza Micheli, Steven Gaines, Elizabeth Hadly.
- 1999-2003 A.B. *magna cum laude* in Biology and Environmental Studies, Williams College

### **PROFESSIONAL EXPERIENCE**

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- Fall 2013- Assistant Professor, Department of Ecology, Evolution, and Natural Resources & Institute of Marine and Coastal Sciences, Rutgers University
- 2011-2013 David H. Smith Conservation Research Fellow, Princeton University.  
Advisors: Simon Levin and Jorge Sarmiento
- 2004-2006 Conservation Science Associate, Wild Salmon Center, Portland, OR

### **HONORS AND AWARDS**

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- 2012 Best Presentation, 2<sup>nd</sup> International Symposium: Effects of Climate Change on the World's Ocean, ICES/PICES, Yeosu, South Korea
- 2011 Outstanding Student Research in Ecology Award, 2<sup>nd</sup> Place, Ecological Society of America
- 2010 Jane Miller Writing Award, Hopkins Marine Station, Stanford University
- 2010 2<sup>nd</sup> Place Poster, Oceans, Marine Ecosystems, & Society facing Climate Change, European Institute for Marine Studies (IUEM), Brest, France
- 2010 Friends of Hopkins Scholar, Hopkins Marine Station, Stanford University
- 2009 Best Student Paper in Organismal/Population Biology, Western Society of Naturalists
- 2007 Excellence in Teaching Award, Department of Biology, Stanford University
- 2003 Kenyatta Prize for Public Service, Williams College
- 2003 Scheffey Award for Environmental Leadership, Williams College
- 2003 Conant-Harrington Prize in Biology, Williams College
- 2003 Sigma Xi Scientific Honor Society, Williams College
- 2003 Highest Honors for Senior Thesis in Biology, Williams College
- 2002, 2003 Phi Beta Kappa, elected Vice President, Williams College

2002-2003 Class of 1960s Scholar in Environmental Studies, Williams College

## GRANTS AND FELLOWSHIPS

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- 2013 Mid-Atlantic Sea Grant. “Understanding the impacts of climate change on the distribution, population connectivity, and fisheries for summer flounder (*Paralichthys dentatus*) in the Mid-Atlantic.” Pinsky, M. L., J. Nye, J. Fodrie, K. Able, O. Jensen, H. Kim, C. Kennedy. \$505,765 (\$139,990 to Rutgers).
- 2013 NOAA CINAR. “Assessing marine climate impacts in North America using species range shifts and climate velocity.” Pinsky, M. L. \$39,990
- 2012 Princeton Environmental Institute Sustainability Challenge. Sarmiento, J. L. (& Pinsky, M. L.) \$4,050
- 2011-2013 David H. Smith Conservation Research Fellowship. Pinsky, M. L. \$185,678
- 2011-2013 NSF Postdoctoral Research Fellowship in Biology, Intersections of Math and Biology *offered but declined*
- 2009-2011 National Science Foundation Graduate Research Fellowship. Pinsky, M. L. ~\$62,000
- 2010 Mel Lane Student Program Grant, Woods Institute for the Environment. \$1,000
- 2009 NCEAS Distributed Graduate Seminar Travel Grant. Pinsky, M. L. \$1,027
- 2009 Mel Lane Student Program Grant, Woods Institute for the Environment. \$4,000
- 2006-2009 National Defense Science & Engineering Graduate Fellowship. Pinsky, M. L. ~\$93,000
- 2008 Stanford Department of Biology SCORE Grant. Pinsky, M. L. \$1,000
- 2008 International Society for Reef Studies/Ocean Conservancy Fellowship. Pinsky, M. L. \$14,901
- 2008 Myers Oceanographic and Marine Biology Trust Grant. Pinsky, M. L. \$1,500

## PUBLICATIONS

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### *Manuscripts (peer reviewed)*

Nelson, E., P. Kareiva, M. Ruckelshaus, K. Arkema, G. Geller\*, E. Girvetz\*, D. Goodrich\*, V. Matzek\*, **M. Pinsky\***, W. Reid\*, M. Saunders\*, D. Semmens\*, and H. Tallis\*. (*accepted*) Climate change's impact on key ecosystem services and the human well-being they support in the United States. *Frontiers in Ecology and Evolution*

\* Authors are alphabetical

Aslan, C.\*, **M. L. Pinsky\***, M. Ryan\*, S. Souther\*, and K. Terrell\* (*in press*) Cultivating creativity in conservation science. *Conservation Biology*

\* All authors contributed equally

**Pinsky, M. L.** and S. R. Palumbi (*in press*) Meta-analysis reveals lower genetic diversity in overfished populations. *Molecular Ecology* doi: 10.1111/mec.12509

**Pinsky, M. L.**, B. Worm, M. J. Fogarty, J. L. Sarmiento, and S. A. Levin (2013) Marine taxa track local climate velocities. *Science* 341: 1239-1242 doi: 10.1126/science.1239352

Press coverage by *BBC Radio*, *LA Times*, *CBC*, *ScienceNow*, *ClimateWire*, and others.

**Pinsky, M. L.**, G. Guannel, and K. K. Arkema (2013) Quantifying wave attenuation to inform coastal habitat conservation. *Ecosphere* 4: art95 doi: 10.1890/ES13-00080.1

**Pinsky, M. L.** and M. Fogarty (2012) Lagged social-ecological responses to climate and range shifts in fisheries. *Climatic Change* 115(3): 883-891 doi:10.1007/s10584-012-0599-x

Highlighted by News & Views in *Nature Climate Change* 2: 840-841: McCay, B. J., "Anthropology: Shifts in fishing grounds." doi:10.1038/nclimate1765

Kim, C.-K., J. E. Toft, M. Papenfus, G. Verutes, A. D. Guerry, M. H. Ruckelshaus, K. K. Arkema, G. Guannel, S. A. Wood, J. R. Bernhardt, H. Tallis, M. L. Plummer; B. S. Halpern, **M. L. Pinsky**, M. W. Beck, F. Chan, K. Chan, P. S. Levin, S. Polasky (2012) Catching the right wave: evaluating wave energy resources and potential compatibility with existing marine and coastal uses. *PLoS One* 7(11): e47598 doi: 0.1371/journal.pone.0047598

**Pinsky, M. L.**, S. R. Palumbi, S. Andréfouët, S. Purkis (2012) Open and closed seascapes: where does habitat patchiness create populations with high fractions of self-recruitment? *Ecological Applications* 22(4): 1257-1267 doi:10.1890/11-1240.1

Guerry, A. D., M. H. Ruckelshaus, K. Arkema, J. R. Bernhardt, G. Guannel, C. K. Kim, M. Marsik, M. Papenfus, **M. L. Pinsky**, J. E. Toft, G. Verutes, S. A. Wood, M. Beck, F. Chan, K. M. A. Chan, G. Gelfenbaum, B. Gold, B. S. Halpern, B. Labiosa, S. Lester, P. S. Levin, M. McField, M. Plummer, S. Polasky, P. Ruggiero, D. A. Sutherland, H. Tallis (2012) Modeling benefits from nature: Using ecosystem services to inform coastal and marine spatial planning. *International Journal of Biodiversity Science, Ecosystem Services & Management* 8(1-2): 107-121 doi:10.1080/21513732.2011.647835

O'Connor, M. I., E. R. Selig, **M. L. Pinsky**, and F. Altermatt (2011) Toward a conceptual synthesis for climate change responses. *Global Ecology and Biogeography* 21: 693-703 doi:10.1111/j.1466-8238.2011.00713.x

**Pinsky, M. L.**, O. P. Jensen, D. Ricard, and S. R. Palumbi (2011) Unexpected patterns of fisheries collapse in the world's oceans. *Proceedings of the National Academy of Sciences* 108(20): 8317-8322

Covered by Nature News, CBC, NewScientist, and others. Recommended on Faculty of 1000

C. B. Woodson, J. A. Barth, O. M. Cheriton, M. A. McManus, J. P. Ryan, L. Washburn, K. N. Carden\*, B. S. Cheng\*, J. Fernandes\*, L. E. Garske\*, T. C. Gouhier\*, A. J. Haupt\*, K. T. Honey\*, M. F. Hubbard\*, A. Iles\*, L. Kara\*, M. C. Lynch\*, B. Mahoney\*, M. Pfaff\*, **M. L.**

**Pinsky\***, M. J. Robart\*, J. S. Stewart\*, S. J. Teck\*, and A. True\* (2011) Observations of internal wave packets propagating along-shelf in northern Monterey Bay. *Geophysical Research Letters* 38, L01605, doi:10.1029/2010GL045453

\* Authors are alphabetical

**Pinsky, M. L.**, H. Montes, Jr., and S. R. Palumbi (2010) Using isolation by distance and effective density to estimate dispersal scales in anemonefish. *Evolution* 64(9): 2688-2700

**Pinsky, M. L.**, S. Newsome, B. R. Dickerson, Y. Fang, M. van Tuinen, D. Kennett, R. R. Ream, and E. A. Hadly (2010) Dispersal provided resilience to range collapse in a marine mammal: insights from the past to inform conservation biology. *Molecular Ecology* 19: 2418-2429

Highlighted in *Science* 330: 582 “Going back to the future to understand climate change”

Jackson, J. A., **M. L. Pinsky**, C. S. Baker (2009) Erratum: How many whales were there after whaling? Inference from contemporary mtDNA diversity (vol. 17, pg. 236, 2008). *Molecular Ecology* 18(19): 4134-4135

**Pinsky, M. L.**, D. Springmeyer, M. Goslin, and X. Augerot (2009) Range-wide selection of catchments for Pacific salmon conservation. *Conservation Biology* 23(3): 680-691

Used in testimony before the United States Senate, Subcommittee on Oceans, Atmosphere, Fisheries, and Coast Guard, April 15, 2010.

Springmeyer, D., **M. Pinsky**, N. Portley, J. Bonkowski, and P. Rand (2007) Prioritization of Sakhalin watersheds for salmonid conservation. *Transactions of the Sakhalin Research Institute of Fisheries and Oceanography* 9: 264-293 (in Russian)

Zwirn, M., **M. Pinsky**, and G. Rahr (2005) Angling ecotourism: Issues, guidelines and experience from Kamchatka. *Journal of Ecotourism* 4(1): 16-31

### **Book chapters**

Palumbi, S. R. and **M. L. Pinsky** (*in press*) Marine dispersal, ecology, and conservation. In *Marine Community Ecology* (M. Bertness, J. Bruno, B. Silliman, and J. Stachowicz, editors), Sinauer Press, Sunderland, MA

**Pinsky, M. L.**, K. J. Kroeker, C. A. Logan, and D. J. Barshis (2013) Marine conservation in a changing climate. In *Encyclopedia of Biodiversity, 2<sup>nd</sup> Edition* (S. Levin, editor), Academic Press, San Diego

Invited lead author

### **Reports and popular articles**

**Pinsky, M. L.** (2013). Effects of climate velocity on fish and fisheries. Speaker Paper for Managing Our Nation’s Fisheries 3 conference, Washington, DC, Session 2: Advancing Ecosystem-Based Decision Making.

Kareiva, P., M. Ruckelshaus, K. Arkema, G. Geller, E. Girvetz, D. C. Goodrich, E. Nelson, V. Matzek, **M. Pinsky**, M. Saunders, D. Semmens, and H. Tallis (2012) Impacts of Climate Change on Ecosystem Services. Chapter 4 of M. D. Staudinger, N. B. Grimm, A. Staudt, S. L. Carter, F. S. Chapin III, P. Kareiva, M. Ruckelshaus, and B. A. Stein. Impacts of Climate Change on Biodiversity, Ecosystems, and Ecosystem Services: Technical Input to the 2013 National Climate Assessment. Cooperative Report to the 2013 National Climate Assessment. 296 p.

Press coverage by *NYTimes*, *ClimateWire*, *The Coloradoan*, and others.

**Pinsky, M. L.** and H. Montes, Jr. (2010) Estimating dispersal in marine fish to improve resilience to climate change. *Integrated Marine Biogeochemistry and Ecosystem Research (IMBER) Update* 16

Varney, A., P. Christie, G. Labrado, R.-L. Eisma-Osorio, and **M. Pinsky** (2010) Designing and planning a network of marine protected areas. Coastal Conservation and Education Foundation (Cebu, Philippines) and School of Marine Affairs, University of Washington (Seattle, WA)

**Pinsky, M. L.** and G. E. Wannier (2010) Managing marine ecosystems for resilience to climate change. *Stanford Journal of Law, Science, and Policy* 2: i-iv

**Pinsky, M. L.** (2008). Ecology 101 for Lawyers. Legal Standards for Marine Ecosystem-based Management Workshop, SeaWeb.

Smith, D. and **M. Pinsky** (2005) International salmon conservation: Alaska, Russia, and beyond. *Oncorhynchus* 26(2): 1,7

**Pinsky, M.** (2005) Salmon and river basin conservation in the Russian Far East. *Russian Conservation News* 38: 10-14

**Pinsky, M.** and K. Hunter-Thomson (2004) Agriculture vs. aquaculture in Chile. *Tidepool.org* May 20, 2004

## TALKS AND SEMINARS

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### *Invited*

2013 Effects of climate velocity on fish and fisheries. Climate Change and New England Fisheries - Observations, Impacts and Adaptation Strategies, Island Institute, Portland, ME.

Workshop covered by WNTW evening news (ABC-affiliate in Portland, ME) and the Portland Press Herald, including interviews with M. Pinsky.

2013 Using climate velocity to guide marine conservation planning. International Congress for Conservation Biology, Baltimore, MD.

- 2013 Effects of climate on fish and fisheries. Capital Hill briefing on “Climate Change and Fisheries” hosted by the American Fisheries Society, Rayburn Building, Washington, DC.
- 2013 Effects of climate velocity on fish and fisheries. Managing Our Nations’ Fisheries 3, Washington, DC.
- 2013 Using climate velocity to guide marine conservation planning. National Adaptation Forum, Denver, CO.
- 2012 Climate velocity, fish, and fisheries. Department of Ecology and Evolutionary Biology, Princeton University, Princeton, NJ
- 2012 Do marine species follow shifting ocean temperatures? Insights from bottom trawl surveys in North America. OneNOAA Seminar, National Oceanic and Atmospheric Administration, Silver Spring, MD
- 2012 Are shifts in marine species' ranges predictable? Insights from both coasts of North America. American Institute of Fisheries Research Biologists Annual Meeting. New Bedford, MA.
- 2012 Speed traps and speeding tickets: can marine species keep up with rapid climate velocities? Keynote speaker for Oceans of Change: ICES/PICES Conference for Early Career Scientists. Mallorca, Spain.
- 2011 Towards a science of seascape conservation: understanding dispersal, fishing, and a changing climate. Harvest Fisheries Seminar, Bedford Inst. of Oceanography, Dartmouth, Nova Scotia
- 2011 Towards a science of seascape conservation: understanding dispersal, fishing, and a changing climate. Dept. of Biology Seminar, Dalhousie University, Halifax, Nova Scotia.
- 2011 New insights into the causes and consequences of fisheries collapse. University of Maine, Machias, ME
- 2011 New insights into the causes and consequences of fisheries collapse. Rutgers Ecology and Evolution Graduate Program Seminar Series, New Brunswick, NJ
- 2011 Unexpected patterns of fisheries collapse in the world’s oceans. American Fisheries Society Annual Meeting, Seattle, WA
- 2011 Open and closed seascapes: where does habitat patchiness create populations with low immigration? International Marine Conservation Congress II, Victoria, BC
- 2010 Why abundant and widespread marine species are not more resilient to collapse: clues from population genetics and global fisheries. National Oceanic and Atmospheric Administration, Geophysical Fluid Dynamics Laboratory Seminar, Princeton, NJ

- 2009 Finding Nemo in the Philippines. Kelp Klimbers and Sea Otters Dive Club, Monterey, CA
- 2008 The power of many: designing networks of marine sanctuaries. Marine Protected Area Network Planning Workshop, Coastal Conservation and Education Foundation, Cebu, Philippines
- 2008 Conservation for resilience: global and local perspectives with salmon. Riversymposium, Brisbane, Australia

### ***Contributed***

- 2013 Using local climate velocity to guide fisheries adaptation. International Council for Exploration of the Sea 2013 Annual Science Conference, Reykjavik, Iceland. Pinsky, M. L.; B. Worm, T. L. Froelicher, M. J. Fogarty, S. A. Levin, J. L. Sarmiento.
- 2012 Towards Predictability of Range Shifts and Their Effects on Fisheries. American Fisheries Society, St. Paul, MN
- 2012 Range shifts in marine species: testing ecological hypotheses against four decades of observations. Ecological Society of America Conference, Portland, OR
- 2012 Empirical measurement of single-generation larval dispersal kernels with genetics. International Coral Reef Symposium, Cairns, Australia.
- 2012 How predictable are species distribution shifts? Testing ecological hypotheses against four decades of observations. 2nd International Symposium: Effects of the Climate Change on the World's Oceans. ICES/PICES. Yeosu, South Korea.
- Best oral presentation
- 2011 Unexpected patterns of fisheries collapse in the world's oceans. Ecological Society of America Annual Meeting, Austin, TX
- 2011 Genetic impacts of overfishing are widespread. Society for the Study of Evolution Annual Meeting, Norman, OK
- Covered by NewScientist, 15 July 2011, "Overfishing eats away at genetic diversity of fish," by Bob Holmes
- 2010 Beware of assumptions: global meta-analysis reveals that fisheries collapses are not more common among large, top predators. Western Society of Naturalists Annual Meeting, San Diego, CA
- 2010 Can habitat patchiness explain whether marine populations are open or closed? Lessons from metapopulation theory. Ecological Society of America Annual Meeting, Pittsburgh, PA
- 2010 Do fishery collapses reduce genetic diversity? Society for the Study of Evolution Annual Meeting, Portland, OR
- 2009 Genetic scales of larval dispersal in fish: are they compatible with self-recruitment? Western Society of Naturalists Annual Meeting, Monterey, CA

- 2009 To go or not to go: scales of self-recruitment in Clark's anemonefish (*Amphiprion clarkii*). Society for the Study of Evolution Annual Meeting, Moscow, ID
- 2007 Separating the effects of migration and colonization: ancient DNA in the northern fur seal, *Callorhinus ursinus*. Western Society of Naturalists Annual Meeting, Ventura, CA
- 2007 Temporal change in population structure: investigations in the northern fur seal, *Callorhinus ursinus*. Society for the Study of Evolution Annual Meeting, Christchurch, New Zealand
- 2006 Freshwater integrity and land use at large scales: a case study with Pacific salmon. Western Society of Naturalists Annual Meeting, Redmond, WA

## TEACHING

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### *Guest Lecturer*

- 2012 Biodiversity Conservation: Scientific and Policy Issues, Princeton University
- 2010 Molecular Ecology, Stanford University
- 2009, 2011 Biomechanics, Ecological Physiology & Genetics of Intertidal Communities, Stanford University

### *Teaching Assistant*

- 2008 The California Coast: Science, Law, and Policy, Stanford University
- 2007 Molecular Evolution, Stanford University
- 2006 Genetics, Biochemistry, and Molecular Biology, Stanford University
- 2002 Ecology, Williams College
- 2001, 2002 Introduction to Environmental Science, Williams College

### *Instructor*

- 2005, 2006 Natural History, Leadership, and Wilderness Travel, National Outdoor Leadership Schools (NOLS)

## PROFESSIONAL SERVICE

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- 2013 Co-Instructor, Workshop on Building Personal and Collective Leadership Capacity in Conservation, International Congress on Conservation Biology, Baltimore, MD
- 2013 Co-organizer, "Climate-ready management of living marine resources," National Adaptation Forum, Denver, CO
- 2012 Co-organizer, "Climate and Fisheries: Responses of a Socio-Ecological System to Global Change," American Fisheries Society annual meeting, St. Paul, MN
- 2011-2012 National Climate Assessment, Ecosystem Services Technical Input Team
- 2011 Integrative Leadership Task Force, Society for Conservation Biology
- 2011 Co-Organizer, Oceans Colloquium 2011, Stanford University

- 2007-2011 Chair, Student Collaborations for Ocean Research and Education
- 2009-2011 Website Director, Hopkins Marine Station Graduate Student Organization, Stanford University
- 2010 Co-Organizer, Oceans Colloquium 2010, Stanford University
- 2009-2010 Invited Participant, Natural Capital Project Marine Initiative Working Group
- 2008-2010 Co-founder & Senior Articles Editor, Stanford Journal of Law, Science, and Policy
- 2009 Invited Participant, National Center for Ecological Analysis and Synthesis (NCEAS) Working Group: Finding Common Ground in Marine Conservation and Management, Distributed Graduate Seminar, Santa Barbara, CA
- 2009 Co-Organizer, Climate Change and Marine Systems: Managing for Resiliency, Stanford University  
Keynote Address by United States Senator Sheldon Whitehouse
- 2008-2009 Student Committee of the Marine Section, Society for Conservation Biology
- 2008 Invited Participant, Legal Standards for Marine Ecosystem-based Management: California and Beyond, Communications Partnership for Science and the Sea (COMPASS)
- 2007 Workshop Organizer, The Role of Marine Science in Public Policy, Stanford University
- 2007 Student Representative, Ph.D. Admissions Committee, Stanford University
- 2002 Chair, Campus Environmental Advisory Committee, Williams College
- 2002 President, Outing Club, Williams College

#### Peer Reviewer

*Science, Proceedings of the National Academy of Sciences, Ecology Letters, Molecular Ecology, Evolution, Heredity, Conservation Biology, Biological Conservation, Journal of Biogeography, Journal of Marine Biology, PLoS One, International Marine Conservation Congress, Regional Environmental Change, David H. Smith Conservation Fellowship Program*