Malin L. Pinsky

Department of Ecology & Evolutionary Biology
University of California Santa Cruz
130 McAllister Way, Santa Cruz, CA 95060
mpinsky@ucsc.edu http://globalchange.sites.ucsc.edu @pinskylab

EDUCATION

2006-2011	Ph.D. in Biology, Stanford University
1999-2003	A.B. *magna cum laude* in Biology and Environmental Studies, Williams College

PROFESSIONAL EXPERIENCE

2023-present	Associate Professor, Department of Ecology and Evolutionary Biology, University of California Santa Cruz
2013-present	Associate Professor (2018-present) and Assistant Professor (2013-2018), Department of Ecology, Evolution, and Natural Resources, Rutgers University
2015- 2024	Member, Institute of Earth, Ocean, and Atmospheric Sciences, Rutgers University
2013- 2024	Affiliate, Department of Marine and Coastal Sciences, Rutgers University
2019-2020	Sabbatical Professor, German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig, Leipzig, Germany and Helmholtz Institute for Functional Marine Biodiversity, Oldenburg, Germany
2013-2015	Member, Institute of Marine and Coastal Sciences, Rutgers University
2011-2013	David H. Smith Conservation Research Fellow, Princeton University

HONORS AND AWARDS

2022	Fellow, American Association for the Advancement of Science (AAAS)
2022	Best In-Person Talk, International Biogeography Society Meeting, Vancouver, BC
2022-2023	Earth Leadership Program Fellow
2020	Ocean Award in Science, Finalist, Blue Marine Foundation and BOAT International
2020	Outstanding Ecological Theory Paper, Ecological Society of America (Tekwa *et al.* 2019)
2019	Science News SN10: One of ten early- and mid-career "scientists to watch"
2019	Early Career Fellow, Ecological Society of America
2018	"Rising Star in Ecology," Atwood Colloquium in Ecology & Evolution, U. Toronto
2016	Early Career Scientist Award, International Council for the Exploration of the Sea
2015	Kavli Fellow, National Academy of Sciences
2014	Alfred P. Sloan Research Fellow in Ocean Sciences
2014	Jasper Loftus-Hills Young Investigators Award, American Society of Naturalists
2012	Best Presentation, 2nd International Symposium: Effects of Climate Change on the World's Ocean, ICES/PICES
2011	Outstanding Student Research in Ecology Award, 2nd Place, Ecological Society of America
2009	Best Student Paper in Organismal/Population Biology, Western Society of Naturalists
2009-2011	National Science Foundation Graduate Research Fellow (awarded 2006)
2006-2009	National Defense Science and Engineering Graduate Research Fellow

PUBLICATIONS

Citations 8628; h-index 43; i-10 index 67 (Google Scholar, April 25, 2023).
ORCID https://orcid.org/0000-0002-8523-8952
Highlights for postdocs, *graduate students*, staff*, and *undergraduates* in my lab or that I mentored.

Manuscripts submitted, in review, or in revision

Fredston, A. L., W. W. L. Cheung, T. L. Frölicher, *Z. Kitchel*, A. A. Maureaud, J. T. Thorson, A. Auber, B. Mérigot, J. Palacios-Abrantes, M. L. D. Palomares, L. Pecuchet, N. Shackell, **M. L. Pinsky**. Marine heatwaves have not emerged as a dominant driver of ecological change. ***Nature*** (4th round review)

Gignoux-Wolfsohn, S. A., D. C. Dunn, J. Cleary, P. N. Halpin, C. R. Anderson, N. J. Bax, G. Canonico, P. Chaniotis, S. Deland, M. Diorio, S. D. Gaines, K. Grorud-Colvert, D. E. Johnson, L. A. Levin, C. J. Lundquist, E. Manca, A. Metaxas, M. E. Monaco, L. Morgan, P. J. Mumby, D. Nisthar, B. Pashel, E. P. Pike, **M. L. Pinsky**, M. M. Ribera, R. R. E. Stanley, J. Sullivan-Stack, T. T. Sutton, D. P. Tittensor, L. V. Weatherdon, L. Wenzel, J. E. Duffy. A scientific foundation for assessing and protecting marine biodiversity in United States waters. ***OneEarth*** (1st round revision)

Maureaud, A. A., J. Palacios-Abrantes, *Z. Kitchel*, L. Mannocci, **M. L. Pinsky**, A. Fredston, E. Beukhof, D. L. Forrest*, R. Frelat, M. L. D. Palomares, L. Pecuchet, J. T. Thorson, P. D. van Denderen, B. Mérigot. FishGlob_data: an integrated database of fish biodiversity sampled with scientific bottom-trawl surveys. ***Scientific Data*** (1st round revision) Preprint at https://osf.io/2bcjw/

Pinsky, M. L., H. Hillebrand, S. A. Blowes, J. M. Chase, L. H. Antão, M. R. Hirt, U. Brose, M. T. Burrows, and B. Gauzens. Warming and cooling catalyze widespread temporal turnover in biodiversity. ***Nature*** (1st round revision)

Bandara, R. M. W. J, E. Curchitser, and **M. L. Pinsky**. The importance of oxygen for explaining rapid shifts in a marine fish. ***Global Change Biology*** (1st round revision)

Clark, R. D. and **M. L. Pinsky**. Global patterns of genetic diversity in marine fishes. ***Ecology Letters*** (1st round review)

Toy, J., G. Bernardi, **M. L. Pinsky**, K. Kroeker. Range-wide whole-genome resequencing reveals strong genetic structure and substantial adaptive variation to climate variables in the temperate Pacific reef fish, *Brachyistius frenatus*. ***Molecular Ecology*** (1st round review)

Tekwa, E. W., M. Krkošek, and **M. L. Pinsky**. Inferring models with alternative stable states from independent observations. Preprint at https://doi.org/10.1101/2020.02.07.939413.

Barratt, C., R. Onstein, **M. L. Pinsky**, S. Steinfartz, H. Kühl, B. Forester, O. Razgour. Life on the edge: a new toolbox for population-level climate change vulnerability assessments. ***Methods in Ecology & Evolution*** (1st round review)

Manuscripts (peer reviewed)

2023

110. Vogel, J., C. Longo, J. Spijkers, J. Palacios-Abrantes, J. Mason, W. Cheung, U. R. Sumaila, C. C.C. Wabnitz, G. Munro, S. Glaser, J. Bell, Y. Tian, N. Shackell, E. R. Selig , P. Le Billon, J. Watson, C.

Hendrix, **M. L. Pinsky**, I. van Putten, K. Karr , E. A. Papaioannou, R. Fujita (*accepted*) Transboundary stock shifts, fisheries conflict and adaptive governance. ***Marine Policy***

109. Terlau, J. F., U. Brose, T. Boy, S. Pawar, **M. L. PinskyD**, M. Hirt (2023) Predicting movement speed of beetles from body size and temperature. ***Movement Ecology*** 11:27 https://doi.org/10.1186/s40462-023-00389-y

108. Pecl, G. T., R. Kelly, C. Lucas, I. van Putten, R. Badhe, C. Champion, I.-C. Chen, O. Defeo, J. D. Gaitán-Espitia, B. Evengård, D. Fordham, F. Guo, R. Henriques, S. Henry, J. Lenoir, H. McGhie, T. Mustonen, S. Oliver, N. Pettorelli, **M. L. Pinsky**, W. Potts, J. Santana-Garcon, W. Sauer, A.-S. Stensgaard, M. W. Tingley, A. Verges (*accepted*) Climate-driven 'species-on-the-move' provide tangible anchors to engage the public on climate change. ***People & Nature***

107. **Pinsky, M. L.**, *R. D. Clark*, *J. T. Bos* (*accepted*) Coral reef population genomics in an age of global change. ***Annual Review of Genetics***

106. *Clark, R. D.*, *K. A. Catalano*, *K. Fitz*, E. Garcia, K. Jaynes, B. N. Reid, A. Sawkins, A. Snead, J. Whalen, **M. L. Pinsky** (*online early*). The practice and promise of temporal genomics for measuring evolutionary responses to global change. ***Molecular Ecology Resources*** https://doi.org/10.1111/1755-0998.13789

105. *Kitchel, Z. J.* and **M. L. Pinsky** (2023). Regional species gains outpace losses across North American continental shelf regions. ***Global Ecology and Biogeography*** 32(7): 1205-1217 https://doi.org/10.1111/geb.13681

104. Tekwa, E. W., *K. A. Catalano*, A. L. Bazzicalupo, M. I. O'Connor, **M. L. Pinsky** (2023). The sizes of life. ***PLOS ONE*** https://doi.org/10.1371/journal.pone.0283020

103. Addicott, E. T., E. P. Fenichel, M. A. Bradford, **M. L. Pinsky**, and S. A. Wood (2023) Reply to Gilbert, Eyster, and Zipkin. ***Frontiers in Ecology and the Environment*** 21(3):115-116 https://doi.org/10.1002/fee.2615

102. Reid, B.N., B. Star, and **M. L. Pinsky** (2023). Detecting parallel polygenic adaptation to novel evolutionary pressure in wild populations: a case study in Atlantic cod (*Gadus morhua*). ***Philosophical Transactions of the Royal Society B*** 378(1881): 20220190 https://dx.doi.org/10.1098/rstb.2022.0190

101. Thorson, J., A. Maureaud, R. Frelat, B. Mérigot, J. S. Bigman, S. T. Friedman, M. L. D. Palomares, **M. L. Pinsky**, S. A. Price, P. Wainwright (2023) Identifying direct and indirect associations among traits by merging phylogenetic trait imputation and structural equation models. ***Methods in Ecology and Evolution*** 14(5):1259-1275 https://doi.org/10.1111/2041-210X.14076

100. *Fitz, K.*, H. Montes Jr., D. Thompson, **M. L. Pinsky** (2023) Isolation-by-distance and isolation-by-oceanography in Maroon Anemonefish (*Amphiprion biaculeatus*). ***Evolutionary Applications*** 16(2): 379-392 https://doi.org/10.1111/eva.13448

2022

99. Reid, B. N. and **M. L. Pinsky** (2022) Simulation-based evaluation of methods, data types, and temporal sampling schemes for detecting recent population declines. ***Integrative and Comparative Biology*** 62(6): 1849-1863 https://doi.org/10.1093/icb/icac144

98. *Hoey, J. A.*, K. Able, and **M. L. Pinsky** (2022) Genetic decline and recovery of a demographically rebuilt fishery species. ***Molecular Ecology*** 31(22): 5684-5698 https://doi.org/10.1111/mec.16697

97. Elsler, L. G., M. Oostdijk, L. A. Levin, E. V. Satterthwaite, **M. L. Pinsky**, G. Ortuño Crespo, M S. Wisz (2022) Protecting ocean carbon through biodiversity and climate governance. ***Frontiers in Marine Science*** 9: 880424 https://doi.org/10.3389/fmars.2022.880424

96. Colton, M. A., L. C. McManus, D. E. Schindler, P. J. Mumby, S. R. Palumbi, M. M. Webster, T. E. Essington, H. E. Fox, D. L. Forrest*, S. R. Schill, F. J. Pollock. L. B. DeFilippo, E. W. Tekwa, T. W. Walsworth, and **M. L. Pinsky** (2022) Coral conservation in a warming world must harness evolutionary adaptation. ***Nature Ecology & Evolution*** 6: 1405–1407 https://doi.org/10.1038/s41559-022-01854-4

95. *Kitchel, Z. J.*, *H. Conrad*, R. L. Selden, and **M. L. Pinsky** (2022) The role of continental shelf bathymetry in shaping marine range shifts in the face of climate change. ***Global Change Biology*** 28(17):5185-5199 https://doi.org/10.1111/gcb.16276

94. **Pinsky, M. L.**, L. Comte, D. F. Sax. (2022) Unifying climate change biology across realms and taxa. ***Trends in Ecology and Evolution*** 37(8): 672-682 https://doi.org/10.1016/j.tree.2022.04.011

93. **Pinsky, M. L.**, and A. Fredston. 2022. A stark future for ocean life. ***Science*** 376:452–453. https://doi.org/10.1126/science.abo4259

Press coverage by PBS NewsHour, Washington Post, National Geographic, and others.

92. Therkildsen, N. O. and **M. L. Pinsky** (2022) A long evolutionary reach for fishing nets. ***Science*** 376:344-345. https://doi.org/10.1126/science.abo6512

91. Tekwa, E. W., J. R. Watson, **M. L. Pinsky** (2022) Body-size and food-web interactions mediate species range shifts under warming. ***Proceedings of the Royal Society B: Biological Sciences*** 289: 20212755 https://doi.org/10.1098/rspb.2021.2755

Press coverage by BBC Newshour, WHYY (National Public Radio), and the Daily Mail.

90. DeFilippo, L. B., L. C. McManus, D. E. Schindler, **M. L. Pinsky**, M. A. Colton, H. E. Fox, E. W. Tekwa, S. R. Palumbi, T. E. Essington, M. M. Webster (2022) Assessing the potential for demographic restoration and assisted evolution to build climate resilience in coral reefs. ***Ecological Applications*** 32(7): e2650 https://doi.org/10.1002/eap.2650

89. Hammerschlag, N., L. H. McDonnell, E. L. Hazen, L. J. Natanson, C. T. McCandless, A. J. Gallagher, **M. L. Pinsky**, B. Kirtman (2022) Ocean warming alters the distributional range, migratory timing, and spatial protections of an apex predator, the tiger shark (*Galeocerdo cuvier*). ***Global Change Biology*** 28(6):1990-2005 https://doi.org/10.1111/gcb.16045

Cover article. Press coverage by Smithsonian Magazine, Scientific American, Fox Weather, Boston Herald, and others.

88. Carlson, A. K., W. W. Taylor, D. R. DeVries, C. P. Ferreri, M. J. Fogarty, K. J. Hartman, D. M. Infante, M. T. Kinnison, S. A. Levin, R. T. Melstrom, R. M. Newman, **M. L. Pinsky**, D. I. Rubenstein, S. M. P. Sullivan, P. A. Venturelli, M. J. Weber, M. R. Wuellner, G. B. Zydlewski (2022) Stepping up: perspectives of U.S. fisheries professionals on the Ten Steps to Responsible Inland Fisheries. ***Fisheries*** 47(2):68-77 https://doi.org/10.1002/fsh.10695

87. Addicott, E., E. P. Fenichel, M. A. Bradford, **M. L. Pinsky**, S. A. Wood (2022) Toward an improved understanding of causation in global change science. ***Frontiers in Ecology and the Environment*** 20(8): 474-480 http://doi.org/10.1002/fee.2530

2021

86. **Pinsky, M. L.** (2021) Mapping the climate risk for European fisheries. ***Proceedings of the National Academy of Sciences*** 118(43):e2115997118 https://doi.org/10.1073/pnas.2115997118

85. Astarloa, A., M. Louzao, J. Andrade, S. Berrow, O. Boisseau, T. Brereton, G. Dorémus, P. Evans, L. Babey, N. Hodgins, M. Lewis, J. Martinez-Cedeira, **M. L. Pinsky**, V. Ridoux, C. Saavedra, B. Santos, J. T. Thorson, J. Waggitt, D. Wall and G. Chust (2021) The role of climate, oceanography, and prey in driving decadal spatio-temporal patterns of a highly mobile top predator. ***Frontiers in Marine Science*** 8: 665474 https://doi.org/10.3389/fmars.2021.665474

84. Eskew, E., D. Fraser, M. Vonhof, **M. L. Pinsky**, and B. Maslo (2021) Host gene expression in wildlife disease: making sense of species-level responses. ***Molecular Ecology*** 30(24):6517-6530 https://doi.org/10.1111/mec.16172

83. McLean, M., D. Mouillot, E. Goberville, M. Lindegren, G. Engelhard, A. A. Maureaud, T. Hattab, **M. L. Pinsky**, M. A. MacNeil, A. Auber (2021) Disentangling tropicalization and deborealization in marine ecosystems under climate change. ***Current Biology*** 31(21): 4817-4823 https://doi.org/10.1016/j.cub.2021.08.034

82. Papaioannou, E. A., R. L. Selden, J. Olson, B. McCay, **M. L. Pinsky** and K. St. Martin (2021) Not all those who wander are lost – Responses of fishers' communities to shifts in the distribution and abundance of fish. ***Frontiers in Marine Science*** 8:669094 https://doi.org/10.3389/fmars.2021.669094

81. McManus, L. C.; D. Forrest*, E. Tekwa, D. Schindler M. Colton, M. Webster, T. Essington, S. Palumbi, P. Mumby; and **M. L. Pinsky** (2021) Evolution and connectivity influence the persistence and recovery of coral reefs under climate change in the Caribbean, Southwest Pacific, and Coral Triangle. ***Global Change Biology*** 27(18):4307-4321 https://doi.org/10.1111/gcb.15725

80. Castillo Vardaro, J. A., J. A. Bonachela, C. C. M. Baker, **M. L. Pinsky**, D. F. Doak, R. M. Pringle, C. E. Tarnita (2021) Resource availability and heterogeneity shape the self-organization of regular spatial patterning. ***Ecology Letters*** 24(9):1880-1891 https://doi.org/10.1111/ele.13822

79. *Clark, R. D.*, M. L. Aardema, P. Andolfatto, P. H. Barber, A. Hattori, *J. A. Hoey*, H. R. Montes Jr., and **M. L. Pinsky** (2021) Genomic signatures of spatially divergent selection at clownfish range margins. ***Proceedings of the Royal Society B: Biological Sciences*** 288(1952):20210407 https://doi.org/10.1098/rspb.2021.0407

78. Fredston, A., **M. L. Pinsky**, R. L. Selden, C. Szuwalski, J. Thorson, S. Gaines, B. Halpern (2021) Range edges of North American marine species are tracking temperature over decades. ***Global Change Biology*** 27(13): 3145-3156 https://doi.org/10.1111/gcb.15614

77. McManus. L. C., E. W. Tekwa, D. E. Schindler, T. E. Walsworth, M. A. Colton, M. M. Webster, T. E. Essington, D. L. Forrest*, S. R. Palumbi, P. J. Mumby, **M. L. Pinsky** (2021) Evolution reverses the effect of network structure on metapopulation persistence. ***Ecology*** 102(7): e03381 https://doi.org/10.1002/ecy.3381

76. **Pinsky, M. L.**, A. M. Eikeset, C. Helmerson, I. R. Bradbury, P. Bentzen, C. Morris, A. Gondek, H. T. Baalsrud, M. S. O. Brieuc, O. S. Kjesbu, J. A. Godiksen, J. M. I. Barth, M. Matschiner, N. C. Stenseth, K. S. Jakobsen, S. Jentoft, and B. Star (2021). Genomic stability through time despite decades of exploitation in cod on both sides of the Atlantic. ***Proceedings of the National Academy of Sciences*** 118(15): e2025453118 https://doi.org/10.1073/pnas.2025453118

> Commentary by J. A. Hutchings & A.Kuparinen, "Throwing down a genomic gauntlet on fisheries-induced evolution", PNAS 118 (20) e2105319118; https://doi.org/10.1073/pnas.2105319118. Recommended on Faculty of 1000.

75. Dedrick, A., *K. Catalano*, M. Stuart*, J. W. White, H. Montes, Jr., and **M. L. Pinsky** (2021) Persistence of a reef fish metapopulation via network connectivity: theory and data. ***Ecology Letters*** 24(6): 1121-1132 https://doi.org/10.1111/ele.13721

74. Gignoux-Wolfsohn, S., **M. L. Pinsky**, K. Kerwin, C. Herzog, M. Hall, A. Bennett, N. Fefferman, and B. Maslo (2021) Genomic signatures of selection in bats surviving white-nose syndrome. ***Molecular Ecology*** 30(22): 5643-5657 https://doi.org/10.1111/mec.15813

> Commentary by Kozakiewicz & Funk, "Bat signal (of selection) summons evolutionary hope in face of epidemic disease: an example of the power and promise of genetic monitoring," *Molecular Ecology* 30(22): 5624-5627 https://doi.org/10.1111/mec.16181

73. *Catalano, K. A.*, A. G. Dedrick, M. R. Stuart*, J. B. Puritz, H. R. Montes, Jr., and **M. L. Pinsky** (2021) Quantifying dispersal variability among nearshore marine populations. ***Molecular Ecology*** 30(10): 2366-2377 https://doi.org/10.1111/mec.15732

News & Views commentary by P. Saenz-Agudelo and H. B. Harrison, "Stochastic nature of larval dispersal at sea", Molecular Ecology 30(10): 2197-2198 https://doi.org/10.1111/mec.15927

72. Bonachela, J. A., M. Burrows, and **M. L. Pinsky** (2021) Rate of community response to climate change depends on species traits and community composition. ***Ecology Letters*** 24(4):708-718 https://doi.org/10.1111/ele.13688

71. Ong, J. L., J. A. Walter, O. P. Jensen, and **M. L. Pinsky** (2021) Global hotspots of coherent marine fisheries. ***Ecological Applications*** 31(5): e2321 https://doi.org/10.1002/eap.2321

70. Moore, C., J. W. Morley, B. Morrison, M. Kolian, E. Horsch, T. Frolicher, **M. L. Pinsky**, and R. Griffis (2021) Estimating the economic impacts of climate change on 16 major U.S. fisheries. ***Climate Change Economics*** 12(1): 2150002 https://doi.org/10.1142/S2010007821500020

69. **Pinsky, M. L.**, E. Fenichel, M. Fogarty, S. Levin, B. McCay, K. St. Martin, R. L. Selden, and T. Young. (2021) Fish and fisheries in hot water: what is happening and how do we adapt? ***Population Ecology*** 63(1): 17-26 https://doi.org/10.1002/1438-390X.12050

Winner of the Most Cited Paper Award for 2023 in *Population Ecology*.

68. Tekwa, E. W., L. C. McManus, A. Greiner, M. A. Colton, M. S. Webster, **M. L Pinsky** (2021) Geometric analysis of regime shifts in coral reef communities. ***Ecosphere*** 12(1): e03319 https://doi.org/10.1002/ecs2.3319

67. Maureaud, A. et al. (+ 75 authors, including **M. L. Pinsky**) (2021). Are we ready to track climate-driven shifts in marine species across international boundaries? - A global survey of scientific bottom trawl data. ***Global Change Biology*** 27(2): 220-236 https://doi.org/10.1111/gcb.15404

66. **Pinsky, M. L.** Diversification spins a heatwave safety net for fisheries (2021) ***Proceedings of the National Academy of Sciences*** 118(3): e2024412118 https://doi.org/10.1073/pnas.2024412118

2020

65. **Pinsky, M. L.**, L. A. Rogers, J. W. Morley, and T. L. Frölicher (2020) Ocean planning for species on the move provides substantial benefits and requires few tradeoffs. ***Science Advances*** 6(50): eabb8228. https://doi.org/10.1126/sciadv.abb8428

64. Morley, J. W., T. Frölicher; and **M. L. Pinsky** (2020) Characterizing uncertainty in climate impact projections: a case study with seven marine species on the North American continental shelf. ***ICES Journal of Marine Science*** 77(6): 2118-2133. https://doi.org/10.1093/icesjms/fsaa103

63. Fredston-Hermann, A., R. L. Selden, **M. Pinsky**, S. D. Gaines, and B. S. Halpern (2020). Cold range edges of marine fishes track climate change better than warm edges. ***Global Change Biology*** 26(5): 2908-2922. https://doi.org/10.1111/gcb.15035

62. Visalli, M. E., B. D. Best, R. B. Cabral, W. W. L. Cheung, N. A. Clarke, C. Garilao, K. Kaschner, K. Kesner-Reyes, V. W. Y. Lam, S. M. Maxwell, J. Mayorga, H. V. Moeller, L. Morgan, G. Ortuño Crespo, **M. L. Pinsky**, T. D.White, and D. J. McCauley (2020). Data-driven approach for highlighting priority areas for protection in marine areas beyond national jurisdiction. ***Marine Policy*** 122: 103927 https://doi.org/10.1016/j.marpol.2020.103927

61. *Hoey, J. A.*, F. J. Fodrie, Q. A. Walker, E. J. Hilton, G. T. Kellison, T. E. Targett, J. C. Taylor, K. W. Able, and **M. L. Pinsky**. (2020) Using multiple natural tags provides evidence for extensive larval dispersal across space and through time in summer flounder. ***Molecular Ecology*** 29(8): 1421-1435. https://doi.org/10.1111/mec.15414

60. **Pinsky, M.L.**, R. L. Selden, and *Z. J. Kitchel*. (2020) Climate-driven shifts in marine species ranges: scaling from organisms to communities. ***Annual Review of Marine Science*** 12: 153-179. https://doi.org/10.1146/annurev-marine-010419-010916

Highly Cited Paper (Essential Science Indicators). One of top ten Annual Reviews articles in the physical sciences downloaded in 2020.

59. Selden, R. L., J. Thorson, J. Samhouri, S. Bograd, S. Brodie, G. Carroll, M. Haltuch, E. Hazen, K. Holsman, **M. L. Pinsky**, E. Willis-Norton. (2020) Coupled changes in biomass and distribution drive trends in availability of fish stocks to US west coast ports. ***ICES Journal of Marine Science*** 77(1): 188-199. https://doi.org/10.1093/icesjms/fsz211

2019

58. Burrows, M. T., A. E. Bates, M. J. Costello, M. Edwards, G. J. Edgar, C. J. Fox, B. S. Halpern, J. G. Hiddink, **M. L. Pinsky**, R. D. Batt, J. G. Molinos, B. Payne, D. Schoeman, R. D. Stuart-Smith, and E. S. Poloczanska. (2019) Ocean community warming responses explained by thermal affinities and temperature gradients. ***Nature Climate Change*** 9: 959-963. https://doi.org/10.1038/s41558-019-0631-5

57. Free, C. M., J. T. Thorson, **M. L. Pinsky**, K. L. Oken, J. Wiedenmann, and O. P. Jensen (2019) Response to Comment on "Impacts of historical warming on marine fisheries production." ***Science*** 365(6454): eaax7170. https://doi.org/10.1126/science.aax7170

56. Moberg, E. A., **M. L. Pinsky**, and E. P. Fenichel. (2019) Capital investment for optimal exploitation of renewable resource stocks in the age of global change. ***Ecological Economics*** 165: 106335. https://doi.org/10.1016/j.ecolecon.2019.05.015

55. Walsworth, T. E., D. E. Schindler, M. A. Colton, M. S. Webster, S. R. Palumbi, P. J. Mumby, T. E. Essington, and **M. L. Pinsky**. (2019) Management for network diversity speeds evolutionary adaptation to climate change. ***Nature Climate Change*** 9: 632–636. https://doi.org/10.1038/s41558-019-0518-5

54. Rogers, L. A., R. Griffin, *T. Young*, *E. Fuller*, K. St. Martin, and **M. L. Pinsky**. (2019) Shifting habitats expose fishing communities to risk under climate change. ***Nature Climate Change*** 9: 512-516. https://doi.org/10.1038/s41558-019-0503-z

53. **Pinsky, M. L.**, A. M. Eikeset, D. J. McCauley, J. L. Payne, and J. M. Sunday. (2019) Greater vulnerability to warming of marine versus terrestrial ectotherms. ***Nature*** 569: 108-111. https://doi.org/10.1038/s41586-019-1132-4

Cover article. News & Views commentary by Richardson, A. J. and D. S. Schoeman http://doi.org10.1038/d41586-019-01193-8. Press coverage by *National Geographic*, *EOS, Mashable*, and others. Hot Paper and Highly Cited Paper (Essential Science Indicators). Recommended on Faculty of 1000.

52. **Pinsky, M. L.** (2019) Species coexistence through competition and rapid evolution. ***Proceedings of the National Academy of Sciences*** 116(7): 2407-2409. https://doi.org/10.1073/pnas.1822091116

51. Free, C. M., J. T. Thorson, **M. L. Pinsky**, K. L. Oken, J. Wiedenmann, and O. P. Jensen. (2019) Impacts of historical warming on marine fisheries production. ***Science*** 363(2430): 979-983. https://doi.org/10.1126/science.aau1758

Press coverage by *New York Times*, *National Geographic*, *CNN*, *The Guardian*, and others. Hot Paper and Highly Cited Paper (Essential Science Indicators). Recommended on Faculty of 1000.

50. Tekwa, E. W., E. P. Fenichel, S. A. Levin, and **M. L. Pinsky** (2019). Path-dependent institutions drive alternative stable states in conservation. ***Proceedings of the National Academy of Sciences*** 116(2): 689-694. https://doi.org/10.1073/pnas.1806852116

Winner of the Outstanding Ecological Theory Paper, Ecological Society of America. Recommended on Faculty of 1000.

49. *Young, T.*, *E. Fuller*, M. M. Provost, K. Coleman, K. St. Martin, B. J. McCay, and **M. L. Pinsky** (2019). Adaptation strategies of coastal fishing communities as species shift poleward. ***ICES Journal of Marine Science*** 73(1): 93-103. https://doi.org/10.1093/icesjms/fsy140

48. Dubik, B., E. Clark, *T. Young*, S. B. Jones Zigler, M. Provost, **M. L. Pinsky**, and K. St. Martin (2019). Governing fisheries in the face of change: Social responses to long-term geographic shifts in a U.S. fishery. ***Marine Policy*** 99: 243-251. https://doi.org/10.1016/j.marpol.2018.10.032

47. *Flanagan, P.*, O. Jensen, J. W. Morley, and **M. L. Pinsky** (2019). Response of marine communities to local temperature changes. ***Ecography*** 42(1): 214-224. https://doi.org/10.1111/ecog.03961

2018

46. *Hoey, J. A.* and **M. L. Pinsky** (2018). Genomic signatures of environmental selection despite near-panmixia in summer flounder. ***Evolutionary Applications*** 11(9): 1732-1747. https://doi.org/10.1111/eva.12676

45. **Pinsky, M. L.**, G. Reygondeau, R. Caddell, J. Palacios-Abrantes, J. Spijkers, and W. W. L. Cheung (2018). Preparing ocean governance for species on the move. ***Science*** 360(6394): 1189-1191. https://doi.org/10.1126/science.aat2360

Press coverage by *National Geographic, Washington Post, Huffington Post*, *Forbes,* and others

44. Thompson, D., J. Kleypas, F. Castruccio, E. Curchitser, **M. L. Pinsky**, B. Jönsson, and J. Watson (2018). Variability in oceanographic barriers to coral larval dispersal: do currents shape biodiversity? Progress in Oceanography 165: 110-122. https://doi.org/10.1016/j.pocean.2018.05.007

43. Morley, J. W., R. Selden, R. Latour, T. Frölicher, R. Seagraves, and **M. L. Pinsky** (2018) Projecting shifts in thermal habitat for 686 species on the North American continental shelf. ***PLOS ONE*** 13(5): e0196127. https://doi.org/10.1371/journal.pone.0196127

Press coverage by *National Public Radio, KQED, Boston Globe, Canadian Press,* and others. Highly Cited Paper (Essential Science Indicators).

42. **Pinsky, M. L.** (2018) Throwing back the big ones saves a fishery from hot water. ***Proceedings of the National Academy of Sciences*** 115(8): 1678-1680. https://doi.org/10.1073/pnas.1722620115

41. Selden, R. L., R. D. Batt, V. S. Saba, and **M. L. Pinsky** (2018) Diversity in thermal affinity among key piscivores buffers impacts of ocean warming on predator-prey interactions. ***Global Change Biology*** 24(1): 117-131. https://doi.org/10.1111/gcb.13838

2017

40. Batt, R. D., J. W. Morley, R. L. Selden, M. W. Tingley, and **M. L. Pinsky** (2017) Gradual changes in range size accompany long-term trends in species richness. ***Ecology Letters*** 20(9): 1148-1157. https://doi.org/10.1111/ele.12812

39. Burgess, M. G., A. Fredston-Hermann, **M. L. Pinsky**, S. D. Gaines, D. Tilman (2017) Reply to Le Pape et al: Management is key to preventing marine extinctions. ***Proceedings of the National Academy of Sciences*** 114(31): E6275–E6276. https://doi.org/10.1073/pnas.1708147114

38. Van Wynsberge, S., S. Andréfouët, N. Gaertner-Mazouni, J. Tiavouane, D. Grulois, J. Lefèvre, **M. L. Pinsky**, and C. Fauvelot (2017) Considering reefscape configuration and composition in biophysical models advance seascape genetics. ***PLOS ONE*** 12(5): e0178239. https://doi.org/10.1371/journal.pone.0178239

37. Holtswarth, J. N., S. B. San Jose, H. R. Montes, Jr., J. W. Morley, and **M. L. Pinsky** (2017) The reproductive seasonality and fecundity of yellowtail clownfish (*Amphiprion clarkii*) in the Philippines. ***Bulletin of Marine Science*** 93(4): 997-1007. https://doi.org/10.5343/bms.2017.1010

36. Burgess, M. G., C. Costello, A. Fredston-Hermann, **M. L. Pinsky**, S. D. Gaines, D. Tilman, and S. Polasky (2017) Range contraction enables harvesting to extinction. ***Proceedings of the National Academy of Sciences*** 114(15): 3945-3950. https://doi.org/10.1073/pnas.1607551114

35. Webster, M. S., M. A. Colton, E. S. Darling, J. Armstrong, **M. L. Pinsky**, N. Knowlton, and D. E. Schindler (2017) Who should pick the winners of climate change? ***Trends in Ecology and Evolution*** 32(3): 167-173. https://doi.org/10.1016/j.tree.2016.12.007

34. Tommasi, D., C. A. Stock, A. J. Hobday, R. Methot, I. C. Kaplan, P. Eveson, K. Holsman, T. J. Miller, S. Gaichas, M. Gehlen, A. Pershing, G. A. Vecchi, R. Msadek, T. Delworth, C. M. Eakin, M. A. Haltuch, R. Séférian, C. M. Spillman, J. R. Hartog, S. Siedlecki, J. F. Samhouri, B. Muhling, R. G. Asch, **M. L. Pinsky**, V. S. Saba, S. B. Kapnick, C. F. Gaitan, R. R. Rykaczewski, M. A. Alexander, Y. Xue, K. V. Pegion, P. Lynch, M. R. Payne, T. Kristiansen, P. Lehodey, and C. Werner (2017) Managing living marine resources in a dynamic environment: the role of seasonal to decadal climate forecasts. ***Progress in Oceanography*** 152: 15-49. https://doi.org/10.1016/j.pocean.2016.12.011

Highly Cited Paper (Essential Science Indicators)

33. **Pinsky, M. L.**, P. Saenz-Agudelo, O. Salles, G. Almany, M. Bode, M. Berumen, S. Andréfouët, S. Thorrold, G. Jones, and S. Planes. (2017) Marine dispersal scales are congruent over evolutionary and ecological time. ***Current Biology*** 27: 149-154. https://doi.org/10.1016/j.cub.2016.10.053

32. Morley, J. W., R. D. Batt, **M. L. Pinsky** (2017) Marine assemblages respond rapidly to winter climate variability. ***Global Change Biology*** 23(7): 2590-2601. https://doi.org/10.1111/gcb.13578

2016

31. Kleypas, J., D. Thompson, F. Castruccio, E. Curchitser, **M. L. Pinsky**, and J. Watson (2016) Larval connectivity across temperature gradients, and its potential effect on heat tolerance in coral populations. ***Global Change Biology*** 22: 3539-3549. https://doi.org/10.1111/gcb.13347

30. Thorson, J., **M. L. Pinsky**, and E. Ward (2016) Model-based inference for estimating shifts in species distribution, area occupied, and center of gravity. ***Methods in Ecology and Evolution*** 7(8): 990-1002. https://doi.org/10.1111/2041-210X.12567

29. Kleisner, K. M, M. J. Fogarty, S. McGee, A. Barnett, P. Fratantoni, J. Greene, J. A. Hare, S. Lucy, C. McGuire, J. Odell, V. S. Saba, L. Smith, K. J. Weaver and **M. L. Pinsky** (2016) The effects of sub-regional climate velocity on the distribution and spatial extent of marine species assemblages. ***PLOS ONE*** 11(2): e0149220. https://doi.org/10.1371/journal.pone.0149220

28. Fenichel, E. P., S. A. Levin, B. McCay, K. St. Martin, J. K. Abbott, and **M. L. Pinsky**. (2016) Wealth reallocation and sustainability under climate change. ***Nature Climate Change*** 6: 237-244. https://doi.org/10.1038/NCLIMATE2871

Press coverage by *Newsweek, Christian Science Monitor, The Weather Channel*

27. Cheung, W. W. L., T. L. Frölicher, R. M. Asch, M. C. Jones, **M. L. Pinsky**, G. Reygondeau, K. B. Rodgers, R. R. Rykaczewski, J. L. Sarmiento, C. Stock, and J. R. Watson (2016) Building confidence in projections of the responses of living marine resources to climate change. ***ICES Journal of Marine Science*** 73 (5): 1283-1296. https://doi.org/10.1093/icesjms/fsv250

2015

26. *Fuller, E.*, *E. Brush*, and **M. L. Pinsky** (2015) The persistence of populations facing climate shifts and harvest. ***Ecosphere*** 6(9): 153. https://doi.org/10.1890/ES14-00533.1

25. **Pinsky, M. L.** and D. Byler. (2015) Fishing, fast growth, and climate variability increase the risk of collapse. ***Proceedings of the Royal Society B: Biological Sciences*** 282: 20151053. https://doi.org/10.1098/rspb.2015.1053

Press coverage by *BBC News, ClimateWire*, and others.

24. McCauley, D. J., **M. L. Pinsky**, S. R. Palumbi, J. A. Estes, F. Joyce, and R. R. Warner (2015) Marine defaunation: animal loss in the global ocean. ***Science*** 347: 1255641. https://doi.org/10.1126/science.1255641

Press coverage by *New York Times (front page)*, *PBS News Hour, National Public Radio, The Boston Globe, Scientific American, Discovery, The Daily Beast, CNBC, Bill Maher, ABC7 Los Angeles, NJTV evening news*, and others. Rated "Exceptional" on *Faculty of 1000*

Hot Paper and Highly Cited Paper in Ecology/Environment (Essential Science Indicators)

23. Guannel, G., P. Ruggiero, J. Faries, K. Arkema, **M. Pinsky**, G. Gelfenbaum, A. Guerry, and C.-K. Kim. (2015) Integrated modeling framework to quantify the coastal protection services supplied by vegetation. ***Journal of Geophysical Research - Oceans*** 120(1): 324–345. https://doi.org/10.1002/2014JC009821

2014

22. **Pinsky, M. L.** and N. J. Mantua. (2014) Emerging adaptation approaches for climate-ready fisheries management. ***Oceanography*** 27(4): 146-159. https://doi.org/10.5670/oceanog.2014.93

21. Mendez, M., F. Kershaw, S. Palumbi, **M. Pinsky**, C. Ray, H. Rosenbaum, A. Subramaniam (2014). Marine Spatial Planning 2.0: genes and satellites to conserve seascape dynamics. ***Aquatic Conservation*** 24(6): 742-744. https://doi.org/10.1002/aqc.2533

20. Thompson, D., F. Castruccio, J. Kleypas, J. Watson, E. Curchitser, and **M. Pinsky** (2014) Variability in reef connectivity in the Coral Triangle. ***Reef Encounters*** 29(2): 46-51

19. Aslan, C.*, **M. L. Pinsky***, M. Ryan*, S. Souther*, and K. Terrell* (2014) Cultivating creativity in conservation science. ***Conservation Biology*** 28(2): 345-353. https://doi.org/10.1111/cobi.12173

* All authors contributed equally

18. de Bruyn, M., **M. L. Pinsky**, B. Hall, P. Koch, C. Baroni, and A. R. Hoelzel. (2014) Rapid increase in southern elephant seal genetic variation after a founder event. ***Proceedings of the Royal Society B: Biological Sciences*** 281: 20133078. https://doi.org/10.1098/rspb.2013.3078

17. **Pinsky, M. L.** and S. R. Palumbi (2014) Meta-analysis reveals lower genetic diversity in overfished populations. ***Molecular Ecology*** 23: 29-39. https://doi.org/10.1111/mec.12509

Cover article. News & Views perspective by Allendorf et al. 2014

Highly Cited Paper in Ecology/Environment (Essential Science Indicators)

16. 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*. (2013) Climate change's impact on key ecosystem services and the human well-being they support in the United States. ***Frontiers in Ecology and the Environment*** 11(9): 483-493. https://doi.org/10.1890/120312

* Authors are alphabetical

2013

15. **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. https://doi.org/10.1126/science.1239352

Press coverage by *BBC Radio*, *LA Times*, *CBC*, *ScienceNow*, *ClimateWire*, and others. Rated "Exceptional" on *Faculty of 1000*

Highly Cited Paper in Ecology/Environment (Essential Science Indicators)

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

2012

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

Highlighted in ***Nature Climate Change*** (doi:10.1038/nclimate1765) and in *The Working Waterfront*.

12. 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. https://doi.org/10.1371/journal.pone.0047598

11. **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. https://doi.org/10.1890/11-1240.1

10. 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. https://doi.org/10.1080/21513732.2011.647835

9. O'Connor, M. I., E. R. Selig, **M. L. Pinsky**, and F. Altermatt (2012) Toward a conceptual synthesis for climate change responses. ***Global Ecology and Biogeography*** 21: 693-703. https://doi.org/10.1111/j.1466-8238.2011.00713.x

2011 and before

8. **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. https://doi.org/10.1073/pnas.1015313108

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

Highly Cited Paper in Ecology/Environment (Essential Science Indicators)

7. Woodson, C. B., 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. https://doi.org/10.1029/2010GL045453

* Authors are alphabetical

6. **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. https://doi.org/10.1111/j.1558-5646.2010.01003.x

5. **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. https://doi.org/10.1111/j.1365-294X.2010.04671.x

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

4. 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. https://doi.org/10.1111/j.1365-294X.2009.04335.x

3. **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. https://doi.org/10.1111/j.1523-1739.2008.01156.x

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

2. 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)

1. Zwirn, M., **M. Pinsky**, and G. Rahr (2005) Angling ecotourism: Issues, guidelines and experience from Kamchatka. ***Journal of Ecotourism*** 4(1): 16-31. https://doi.org/10.1080/14724040508668435

Book chapters

4. Selden, R. L. and **M. L. Pinsky** (2019) Climate change adaptation and spatial fisheries management. Pp. 207-214 in ***Predicting Future Oceans: Sustainability of Ocean and Human Systems Amidst Global Environmental Change*** (W. Cheung, Y. Ota, and A. Cisneros-Montemayor, editors), Elsevier, Amsterdam, Netherlands

3. **Pinsky, M. L.** and R. L. Selden (2017) Climate variability, climate change, and conservation in a dynamic ocean. Pp. 23-38 in ***Conservation for the Anthropocene Ocean: Interdisciplinary science in support of nature and people*** (P. S. Levin and M. R. Poe, editors), Elsevier/Academic Press, Philadelphia, PA

2. Palumbi, S. R. and **M. L. Pinsky** (2013) Marine dispersal, ecology, and conservation. Pp. 57-83 in ***Marine Community Ecology*** (M. Bertness, J. Bruno, B. Silliman, and J. Stachowitz, editors), Sinauer Press, Sunderland, MA

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

Proceedings, reports, and popular articles

13. *Kitchel, Z. J.*, *R. M. W. J. Bandara*, *J. T. Bos*, *R. D. Clark*, D. L. Forrest*, and **M. L. Pinsky** (2021) Review of "Ocean Recovery: A Sustainable Future for Global Fisheries?" by Ray Hilborn and Ulrike Hilborn. ***Fisheries*** 46(4): 201 https://doi.org/10.1002/fsh.10580

12. Kong, S., J. Bai, J. H. Lee, D. Chen, A. Allyn, M. Stuart*, **M. Pinsky**, K. Mills, and C. Gomes (2020) Deep Hurdle Networks for Zero-Inflated Multi-Target Regression: Application to Multiple Species Abundance Estimation. Pages 4375–4381 ***Proceedings of the Twenty-Ninth International Joint Conference on Artificial Intelligence.*** International Joint Conferences on Artificial Intelligence Organization, Yokohama, Japan. https://10.24963/ijcai.2020/603

11. Stewart Lowndes, J. S., H. E. Froehlich, A. Horst, N. Jayasundara, **M. L. Pinsky**, A. C. Stier, N. O. Therkildsen, and C. L. Wood (2019). Supercharging research with open data science and teamwork. ***Nature***. https://doi.org/10.1038/d41586-019-03335-4

10. **Pinsky, M. L.**, G. Reygondeau, R. Caddell, J. Palacios-Abrantes, J. Spijkers, and W. W. L. Cheung (2018) Governance for species on the move needs mechanisms for newly shared fisheries. ***Science*** Available from http://science.sciencemag.org/content/361/6408/1208.2/tab-e-letters

9. Nippon Foundation-Nereus Program (2017) Oceans and Sustainable Development Goals: Co-benefit, climate change, and social equity. Vancouver, 28 p. http://www.nereusprogram.org

    M. L. Pinsky and R. Selden were contributing authors.

8. Clarke, L., R. He, S. Arnott, J. Ballenger, M. Karnauskas, K. Lindeman, R. Mordecai, J. W. Morley, P. Ortner, C. Paris, **M. L. Pinsky**, M. Reichert, M. Roffer, R. Rykaczewski, P. Sheng, G. Voulgaris, and W. White (2016). Policy Considerations for South Atlantic Climate Variability, Fisheries and Essential Fish Habitats. (A report prepared for the South Atlantic Fishery Management Council.) Available from https://safmc.net/download/SAFMC_HabitatPolicy_ClimateVariabilityFisheries_Final_Dec2016.pdf

7. **Pinsky, M. L** (2016). Opinion: These two changes in the ocean are downright scary. ***MarketWatch***, April 22, 2016. Available from http://www.marketwatch.com/story/these-two-changes-in-the-ocean-are-downright-scary-2016-04-22.

6. Gaichas, S., J. Hare, **M. Pinsky**, G. DePiper, O. Jensen, T. Lederhouse, J. Link, D. Lipton, R. Seagraves, J. Manderson, and M. Clark. (2015). A White Paper to Inform the Mid-Atlantic Fishery Management Council on the Impact of Climate Change on Fishery Science and Management: April 2015 (second draft). Available from https://static1.squarespace.com/static/511cdc7fe4b00307a2628ac6/t/558834e8e4b054917999f425/1434989800817/Climate+Change+and+VariabilityWhite+Paper_BBook_second_draft_final.pdf

5. **Pinsky, M. L.** (2014). Effects of climate velocity on fish and fisheries. Pp. 175-184 in J. D. Gilden (ed.), Managing Our Nation's Fisheries 3: Advancing Sustainability. Proceedings of a conference on fisheries management in the United States held in Washington, DC, on May 6-9, 2013. Pacific Fisheries Management Council (Portland, OR)

4. 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 *New York Times*, *ClimateWire*, and others.

3. **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

2. 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)

1. **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

Datasets

10. **Pinsky, M. L.** (2022) RAPID: Mega-typhoon impacts on the metapopulation resilience of coral reef fishes. https://www.bco-dmo.org/project/554706

9. Maureaud, A., J. Palacios Abrantes, *Z. Kitchel*, L. Mannocci, **M. Pinsky**, A. Fredston, E. Beukhof, D. Forrest*, R. Frelat, D. Palomares, L. Pecuchet, J. Thorson, D. van Denderen, B. Merigot. (2022) Fishglob_Data v. 1.9 https://doi.org/10.5281/zenodo.7527447

8. Allen, M., D. Forrest*, M. Stuart*, and **M. L. Pinsky** (2022) Scripts and data for OceanAdapt website to visualize shifts in marine animal distributions: Update 2021.1. https://doi.org/10.5281/zenodo.6085448

7. Allen, M., D. Forrest*, M. Stuart*, and **M. L. Pinsky** (2021) Scripts and data for OceanAdapt website to visualize shifts in marine animal distributions: Update 2021. https://doi.org/10.5281/zenodo.5799864

6. Forrest, D.*, M. Stuart*, and **M. L. Pinsky** (2020) Scripts and data for OceanAdapt website to visualize shifts in marine animal distributions: Update 2020. https://doi.org/10.5281/zenodo.3885625

5. **Pinsky, M. L.** (2019) Adaptations of fish and fishing communities to rapid climate change. https://www.bco-dmo.org/project/559948

4. M. Stuart* and M**. L. Pinsky** (2019) Scripts and data for OceanAdapt website to visualize shifts in marine animal distributions: Update 2019. https://doi.org/10.5281/zenodo.3890214

3. M. Stuart*, R. D. Batt, and **M. L. Pinsky** (2018) Scripts and data for OceanAdapt website to visualize shifts in marine animal distributions: Update 2018. https://github.com/pinskylab/OceanAdapt/releases/tag/2018.1.0

2. R. D. Batt and **M. L. Pinsky** (2017) Scripts and data for OceanAdapt website to visualize shifts in marine animal distributions: Update 2017. https://github.com/pinskylab/OceanAdapt/releases/tag/v2017.1.0

1. R. D. Batt and **M. L. Pinsky** (2016) Scripts and data for OceanAdapt website to visualize shifts in marine animal distributions: Update 2016. https://github.com/pinskylab/OceanAdapt/releases/tag/v2016.1.0-beta.1

GRANTS AND FELLOWSHIPS

$18.4M in funding (September 2013 through June 2023)

2023-2025	University of California Santa Cruz Center for Coastal Climate Resilience, "Promoting resilience of the Dungeness crab fishery to climate-induced harmful algal blooms." Kroeker, K., S. Bograd, C. Edwards, J. Fiechter, E. Hazen, M. Jacox, R. Kudela, M. L. Pinsky, C. Pomeroy.
2023-2025	University of California Santa Cruz Center for Coastal Climate Resilience, "Evolutionary resilience in kelp for climate adaptation." Pinsky, M. L., K. Kroeker, D. Reed, F. Alberto, T. McHugh, and J. Freiwald.
2023-2025	U.S. CLIVAR Working Group, "Climate Data and Predictions for Coastal Solutions." Di Lorenzo, E., S. Siedlecki, C. Anderson, M. Pinsky.
2022-2024	Department of Defense Minerva, "Climate change and great power competition." Ramsay, K., E. Kapstein, and M. L. Pinsky.
2021-2022	NSF CBET Convergence Accelerator, "Regional climate change projections to enable equitable ocean planning for the blue economy." Pinsky, M. L., L. Hice-Dunton, M. M. Ribera, S. A. Siedlecki, K. J. St. Martin.
2021-2026	NSF DEB Dimensions of Biodiversity, "Dimensions US-China-South Africa: Establishing genetic, phylogenetic and functional mechanisms that shape microbiome diversity of polar and alpine soils." Haggblom, M. M., L. J. Kerkhof, M. L. Pinsky.

2020-2023 NOAA Climate Program Office 2020, Coastal and Ocean Climate Applications (COCA) Fisheries and Climate Program, Understanding Climate Impacts on Fish Stocks and Fisheries to Inform Sustainable Fisheries Management: "Northeast Climate Integrated Modeling to Meet Ocean Decision Challenges." Kerr, L., A. Pershing, K. Mills, E. Curchitser, M. Pinsky, J. R. Wiedenmann, T. Miller, J. Deroba, V. Saba.

2019-2022 Lenfest Ocean Program, The Pew Charitable Trusts, "Near-term forecasts of species distributions for fisheries management." M. Pinsky.

2017-2022 NSF Partnerships for International Research and Education, "PIRE: Centennial Genetic and Species Transformations in the Epicenter of Marine Biodiversity." Carpenter, K. E., D. Barshis, C. Bird, M. L. Pinsky, B. Polidoro.

2014-2022 NOAA Cooperative Institute for the North Atlantic Region, Development of the OceanAdapt web portal for communicating shifts in marine species distributions. M. Pinsky.

2019-2021 NOAA Climate and Societal Interactions (CSI)/ Coastal and Ocean Climate Applications (COCA), "Adapting to changes in fishing opportunity portfolios: abundance, availability, and access." Ramenzoni, V., C. Free, O. Jensen, M. Pinsky, J. Wiedenmann.

2019-2020 The Eppley Foundation for Research, "Investigating Expression Quantitative Trait Loci in Bats Surviving White-nose Syndrome." Maslo, B. and M. L. Pinsky.

2018-2020 New Jersey Sea Grant, "Developing indices of vulnerability to climate change for ground fishing communities in the Northeast." St. Martin, K. and M. Pinsky.

2018-2020 New Jersey Sea Grant, "Quantifying the effects of a changing climate on summer flounder recruitment." Pinsky, M.L., C. Chambers, and J. Hoey.

2017-2020 The Nature Conservancy, "Identifying conservation and restoration strategies to enhance the evolutionary capacity of Caribbean corals." Colton, M., M. L. Webster, M.L. Pinsky, and D. Schindler.

2016-2020 NSF Dynamics of Coupled Natural-Human Systems, "CNH-L: The dynamics of adaptation to climate-driven variability in California Current fisheries and fishing communities." Abbott, J., D. Holland, A. Punt, M. Poe, and M. Pinsky.

2016-2020 Nippon Foundation, "Nereus Program Expansion." Cheung, W., Y. Ota, D. Pauly, W. Swartz, D. Gascuel, T. Frölicher, E. Sunderland, J. Kittinger, A. Boustany, M. Pinsky, R. Rykaczewski, H. Hosein, and Q. Hanich.

2017-2019 NOAA Fisheries and the Environment (FATE), "Creating and evaluating indices of climate-induced changes in spatial distributions of North Pacific fishery resources." Hazen, E., R. Selden, S. Bograd, K. Holsman, M. Pinsky, J. Samhouri, M. Haltuch.

2016-2019 Gordon and Betty Moore Foundation, "Evolutionary adaptation potential: From novel science to practical application." M. Colton, M. Webster, D. Schindler, M. Pinsky.

2017-2018 Wildlife Management Institute, "Identifying genetic signatures of selection in multiple bat hosts." Maslo, B., S. Gignoux-Wolfsohn, M. Pinsky, B. Hines.

2014-2018 NSF Division of Ocean Sciences. "Coastal SEES Collaborative Research: Adaptations of fish and fishing communities to rapid climate velocities." Pinsky, M. L., K. St. Martin, B. McCay, E. Fenichel, S. Levin, and J. Olson.

2015-2017 U.S. Fish and Wildlife Service. "Are Bat Populations Infected with White-nose Syndrome Undergoing Rapid Natural Selection?" B. Maslo, N. Fefferman, and M. L. Pinsky.

2015-2017 Gordon and Betty Moore Foundation. "Managing Coral Reefs for Adaptation Potential." Webster, M., M. Colton, M. Pinsky, and D. Schindler.

2015-2017 National Oceanic and Atmospheric Administration (NOAA) Climate Program Office. "Climate velocity over the 21st century and its implications for fisheries management in the Northeast U.S." Pinsky, M. and R. Seagraves.

2015-2016 The Pew Charitable Trusts. "Climate Impacts Projections for U.S. Fisheries." Pinsky, M.
2014-2016 Alfred P. Sloan Research Fellowship in Ocean Sciences. Pinsky, M. L.
2014-2016 New Jersey Sea Grant. "Genetic monitoring to improve fish stock assessments." Pinsky, M.L., O. Jensen, and K. Able.
2014-2016 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.
2015 The Pew Charitable Trusts. "South Atlantic Climate Impact Analyses." Pinsky, M. L.
2014-2015 NSF Division of Ocean Sciences. "RAPID: Mega-typhoon impacts on the metapopulation resilience of coral reef fishes." Pinsky, M. L.
2014-2015 Oak Ridge Associated Universities, Ralph E. Powe Junior Faculty Enhancement Award. "Mega-Typhoon Impacts on the Resilience of Coral Reef Fishes." Pinsky, M. L.
2011-2013 David H. Smith Conservation Research Fellowship. Pinsky, M. L.
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.
2006-2009 National Defense Science & Engineering Graduate Fellowship. Pinsky, M. L.
2008 International Society for Reef Studies/Ocean Conservancy Fellowship. Pinsky, M. L.

TALKS AND SEMINARS

Keynote and Plenary

2021 Keynote speaker, Regional Association for Research on the Gulf of Maine (RARGOM) Annual Science Meeting
2019 Keynote speaker, Centre for Ocean Life Annual Retreat, Technical University of Denmark (DTU), Elmejøj, Denmark
2019 Plenary invited speaker, Species on the Move (SOTM) conference, Kruger National Park, South Africa
2018 Plenary speaker, Rutgers Climate Symposium on "Climate Change and Food Security," Piscataway, NJ
2018 Keynote speaker, International Mini-Symposium: Spatiotemporal dynamics of aquatic organisms in a changing world - from genetics to macroecology, Japan Agency for Marine-Earth Science and Technology (JAMSTEC), Yokohama, Japan
2018 Keynote speaker, 34th Annual Meeting of the Society of Population Ecology, Tokyo, Japan
2018 Plenary speaker, Ocean Global Change Biology Gordon Research Conference, Waterville Valley, NH
2018 "Rising Star in Ecology" speaker at the Atwood Colloquium in Ecology & Evolution, University of Toronto, Toronto, ON
2017 Keynote speaker, Species Distribution Modeling Symposium, Center for Biodiversity and Global Change, Yale University, New Haven, CT
2017 Keynote address, 11th International Conference and Workshop on Lobster Biology and Management, Portland, ME
2012 Keynote speaker for Oceans of Change: ICES/PICES Conference for Early Career Scientists, Mallorca, Spain

Invited

2023 "Climate Change: Impact and Solutions for Nutrition, Food Safety, and the Food Supply Chain," Food Forum, National Academy of Sciences, Engineering, and Medicine (NASEM)
2023 Center for Mathematical Biology, University of Pennsylvania, Philadelphia, PA
2023 Ecology Center, Utah State University, Logan, UT

2022 Faculty of Biosciences and Aquaculture, Nord University, Bodø, Norway
2022 Intecol, Geneva, Switzerland
2022 Program in in Atmospheres, Oceans, and Climate, Massachusetts Institute of Technology (MIT), Cambridge, MA
2022 Department of Natural Resources, Cornell University, Ithaca, NY
2022 Ecology & Evolution Group, Department of Biological Science, Florida State University, Tallahassee, FL
2022 Department of Biological Science, Florida State University, Tallahassee, FL
2021 GEOMAR Helmholtz Centre for Ocean Research Kiel, Kiel, Germany
2021 Oregon Institute of Marine Biology, University of Oregon
2021 International Forum on Advanced Environmental Sciences and Technology (iFAST), University of Oklahoma
2021 MARE 2021 People and the Sea conference
2021 Hatfield Marine Science Center, Oregon State University
2021 Department of Environmental Studies, University of California Santa Cruz, Santa Cruz, CA
2020 CalCOFI Conference
2020 Department of Biology, Dalhousie University, Halifax, Canada
2020 Ecological Society of America annual meeting
2020 Princeton Environmental Institute (PEI), Princeton University, Princeton, New Jersey
2020 Swiss Federal Institute of Aquatic Science and Technology (EAWAG), Dübendorf, Switzerland
2020 Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB), Berlin, Germany
2020 Institute of Marine Ecosystem and Fishery Science, Universität Hamburg, Hamburg, Germany
2019 Institute for Chemistry and Biology of the Marine Environment, Carl von Ossietzky University of Oldenburg, Oldenburg, Germany
2019 Det Norske Videnskaps-Akademi (Norwegian Academy of Science and Letters), Oslo, Norway
2019 DTU-Aqua, Technical University of Denmark (DTU), Lyngby, Denmark
2019 German Centre for Integrative Biodiversity Research (iDiv) Halle-Jenna-Leipzig, Leipzig, Germany
2019 Department of Earth System Science, University of California Irvine, Irvine, CA
2019 Northeast Climate Integrated Modeling Workshop, Gulf of Maine Research Institute, Portland, ME
2019 Department of Ecology and Evolutionary Biology, University of Michigan, Ann Arbor, MI
2019 Hopkins Marine Station, Department of Biology, Stanford University, Pacific Grove, CA
2018 Department of Biology, Boston University, Boston, MA
2018 Distinguished Early Career Contributions in Coastal and Climate Science, East Carolina University, Greenville, NC
2018 Invited speaker, 4th International Symposium on the Effects of Climate Change on the World's Oceans, ICES/PICES, Washington, DC
2018 Department of Marine and Coastal Sciences, Rutgers University, New Brunswick, NJ
2018 COMPASS Panel on Making Your Science Matter: Engaging with Decision Makers to Navigate Ocean Change, AGU/ASLO/TOS Ocean Sciences Meeting, Portland, OR
2018 Bevan Series on Sustaining Fisheries in a Changing Climate, University of Washington, Seattle, WA
2017 Department of Human Ecology, Rutgers University, New Brunswick, NJ
2017 Department of Natural Resources, Cornell University, Ithaca, NY
2017 Ecological Society of America annual meeting, Portland, OR
2017 Department of Ecology and Evolutionary Biology, Princeton University, Princeton, NJ
2017 Institute for the Oceans and Fisheries, University of British Columbia, Vancouver, BC, Canada
2017 Rutgers Climate Institute, Rutgers University, New Brunswick, NJ
2016 Marine Science Center, Northeastern University, Nahant, MA
2016 Lovén Centre Tjärnö, University of Gothenburg, Strömstad, Sweden

2016 Center for Ecological and Evolutionary Synthesis, University of Oslo, Oslo, Norway
2016 DTU-Aqua, Copenhagen, Denmark
2016 International Council for Exploration of the Sea Annual Meeting, Riga, Latvia
2016 Stockholm Seminar, The Royal Swedish Academy of Sciences, Stockholm, Sweden
2016 Department of Biology, George Washington University, Washington, DC
2016 Department of Biology, University of Pennsylvania, Philadelphia, PA
2015 Department of Biology, Temple University, Philadelphia, PA
2015 Pew Fellows Program in Marine Conservation Annual Meeting, Rio Grande, Puerto Rico
2015 Ecological Society of America, Baltimore, MD
2015 Application of Seasonal to Decadal Climate Predictions for Marine Resource Management Workshop, NOAA Geophysical Fluid Dynamics Laboratory, Princeton, NJ
2015 Discussant for "Grand Challenges in Theoretical Ecology," by Bob Holt and David Tilman, Department of Ecology and Evolutionary Biology, Princeton University, Princeton, NJ
2015 Department of Ecology, Evolution, and Environmental Biology, Columbia University, New York City, NY
2015 Department of Ecology and Evolutionary Biology, Yale University, New Haven, CT
2015 Third International Symposium: Effects of Climate Change on the World's Oceans. Santos City, Brazil
2015 Interdisciplinary Program in Ocean Change, University of Washington, Seattle, WA
2014 Dept. of Ecology, Evolution, and Marine Biology seminar, University of California, Santa Barbara, CA
2014 American Society of Naturalists Young Investigators' Symposium, Evolution2014. Raleigh, NC
2014 Biology Seminar, University of Massachusetts Boston, Boston, MA
2013 Ecology & Evolution Graduate Seminar Series. Rutgers University, Rutgers, NJ
2013 School of Marine and Atmospheric Studies, Stony Brook University, Stony Brook, NY
2013 Bridging the Climate Divide: Informing the Response to Hurricane Sandy and Implications for Future Vulnerability, Rutgers Climate Institute, New Brunswick, NJ
2013 International Congress for Conservation Biology, Baltimore, MD
2013 National Adaptation Forum, Denver, CO
2012 Department of Ecology and Evolutionary Biology, Princeton University, Princeton, NJ
2012 American Institute of Fisheries Research Biologists Annual Meeting. New Bedford, MA
2011 Harvest Fisheries Seminar, Bedford Inst. of Oceanography, Dartmouth, Nova Scotia
2011 Dept. of Biology Seminar, Dalhousie University, Halifax, Nova Scotia
2011 University of Maine, Machias, ME
2011 Rutgers Ecology and Evolution Graduate Program Seminar Series, New Brunswick, NJ
2011 American Fisheries Society Annual Meeting, Seattle, WA
2011 International Marine Conservation Congress II, Victoria, BC
2010 National Oceanic and Atmospheric Administration, Geophysical Fluid Dynamics Laboratory Seminar, Princeton, NJ
2008 Riversymposium, Brisbane, Australia

Contributed

2023 Species on the Move (SOTM) conference, Naples, FL
2023 American Society of Naturalists Conference, Asilomar, CA
2022 Ecological Society of America annual meeting, Montreal, Canada
2022 10th Biennial Conference of the International Biogeography Society, Vancouver, Canada
Best In-Person Talk
2021 American Genetics Association, Conservation Genomics (hybrid)
2021 Ecological Society of America Annual Meeting (virtual)
2021 International Coral Reef Symposium (virtual)
2021 Evolution conference (virtual)

2020 GEO BON Open Science Conference (virtual)
2019 OceanVisions2019 Conference, Atlanta, GA
2018 AGU/ASLO/TOS Ocean Sciences Meeting, Portland, OR
2017 Ecological Society of America annual meeting, Portland, OR
2017 New York Area Population Genomics Workshop, New York City, NY
2016 13th International Coral Reef Symposium, Honolulu, HI
2016 Ocean Sciences Meeting, New Orleans, LA
2015 Third International Symposium: Effects of Climate Change on the World's Oceans. Santos City, Brazil
2014 Ecological Society of America, Sacramento, CA
2014 Ocean Sciences Meeting, Honolulu, HI
2014 21st Century Naturalists: Integrating Pattern and Process to Understand Biodiversity. American Society of Naturalists, Pacific Grove, CA
2013 International Council for Exploration of the Sea 2013 Annual Science Conference, Reykjavik, Iceland
2012 American Fisheries Society, St. Paul, MN
2012 Ecological Society of America Conference, Portland, OR
2012 International Coral Reef Symposium, Cairns, Australia
2012 2nd International Symposium: Effects of the Climate Change on the World's Oceans, ICES/PICES, Yeosu, South Korea.
Best oral presentation
2011 Ecological Society of America Annual Meeting, Austin, TX
2011 Society for the Study of Evolution Annual Meeting, Norman, OK
Covered by *NewScientist*, 15 July 2011, "Overfishing eats away at genetic diversity of fish."
2010 Western Society of Naturalists Annual Meeting, San Diego, CA
2010 Ecological Society of America Annual Meeting, Pittsburgh, PA
2010 Society for the Study of Evolution Annual Meeting, Portland, OR
2009 Western Society of Naturalists Annual Meeting, Monterey, CA
2009 Society for the Study of Evolution Annual Meeting, Moscow, ID
2007 Western Society of Naturalists Annual Meeting, Ventura, CA
2007 Society for the Study of Evolution Annual Meeting, Christchurch, New Zealand
2006 Western Society of Naturalists Annual Meeting, Redmond, WA

Outreach, Policy, and Management

2023 Mid-Atlantic Fishery Management Council, webinar
2023 Scientific and Statistical Committee (SSC), Mid-Atlantic Fishery Management Council, webinar
2023 Ecosystem and Ocean Planning (EOP) Committee and Advisory Panel, Mid-Atlantic Fishery Management Council, webinar
2022 Princeton Food Project, "Sustainable Oystering: A Farmer to Table Conversation"
2021 Carolina Public Press, "Changing Tides" panel
2021 Mid-Atlantic Ocean Forum, panel on Conservation and Living Marine Resource Management in the Face of a Changing Climate
2020 South Atlantic Climate and Fisheries Workshop, South Atlantic Fishery Management Council
2019 Science News webinar (public conversation with Carolyn Gramling, journalist)
2019 Coastal-Marine Ecosystem-Based Management Tools Network webinar
2018 OneNOAA seminar, National Oceanic and Atmospheric Administration (webinar)
2018 Convening speaker, "Fishing for Solutions in a Changing Ocean," COMPASS Science and Decision Roundtable, Washington, DC
2017 World Conference of Science Journalists, San Francisco, CA
2017 Mid-Atlantic Blue Ocean Economy 2020, Monmouth University, West Long Branch, NJ
2017 NOAA Northeast Fisheries Science Center, Sandy Hook, NJ

2017 Coral Reef Alliance, Washington, DC
2016 Tides Of Change: Ocean change and implications for New England's fisheries and fishing communities, a webinar organized by COMPASS
2016 Tides Of Change: A Capitol Hill Briefing on how oceans are changing and how those changes affect fisheries and fishing communities, organized by COMPASS, Capitol Hill Visitors Center, Washington, DC
2016 Aquarium of the Pacific, Long Beach, CA
2016 Mid-Atlantic Fishery Management Council, Newark, DE
2015 Ecosystem-Based Management Tools Webinar, New Brunswick, NJ
2015 Mid-Atlantic Fishery Management Council, Long Branch, NJ
2014 NOAA Fisheries Webinar. Co-presented with Jon Hare, Northeast Fisheries Science Center.
2014 Ecosystem-based Fisheries Management workshop, Pew Foundation, Washington, DC
2014 New Jersey Department of Environmental Protection, Trenton, NJ
2014 Mid-Atlantic Fishery Management Council. New Bern, NC
2013 Climate Change and New England Fisheries - Observations, Impacts and Adaptation Strategies, Island Institute, Portland, ME
Featured in *WMTW* evening news (*ABC*-affiliate in Portland, ME), the *Portland Press Herald*, and the *Bangor Daily News*.
2013 Capitol Hill briefing on "Climate Change and Fisheries" hosted by the American Fisheries Society, Rayburn Building, Washington, DC
2013 Managing Our Nations' Fisheries 3, Washington, DC
2012 OneNOAA Seminar, National Oceanic and Atmospheric Administration, Silver Spring, MD
2009 Kelp Klimbers and Sea Otters Dive Club, Monterey, CA
2008 Marine Protected Area Network Planning Workshop, Coastal Conservation and Education Foundation, Cebu, Philippines

TEACHING

Professor of record

2023 Molecular Ecology, Rutgers University
2022 Seminar in Ecology, Rutgers University
2021 Seminar in Ecology, Rutgers University
2021 Molecular Ecology, Rutgers University
2021 Advanced Ecological Data Analysis (with R. Winfree), Rutgers University
2020 Seminar in Ecology, Rutgers University
2019 Molecular Ecology, Rutgers University
2018 Ecology, Evolution, and Climate Change, Rutgers University
2018 Molecular Ecology, Rutgers University
2017 Advanced Ecological Data Analysis (with O. Jensen and R. Winfree), Rutgers University
2017 Molecular Ecology, Rutgers University
2016 Ecology, Evolution, and Climate Change, Rutgers University (with D. Adams)
2015 Molecular Ecology, Rutgers University
2014 Molecular Ecology, Rutgers University

Guest lectures and workshops

2022 Serrapilheira/ICTP-SAIFR Training Program in Quantitative Biology and Ecology
2021 Transdisciplinary Perspectives on Coastal Climate Risk and Resilience
2021 Serrapilheira/ICTP-SAIFR Training Program in Quantitative Biology and Ecology
2021 Oceanography Seminar, Rutgers University
2020 Topics in Ecology, Evolution, and Natural Resources, Rutgers University

2020	Science Communication to Journalists and Policymakers, German Center for Integrative Biodiversity Research (iDiv)
2019	Fisheries Management, DTU-Aqua, Lyngby, Denmark
2018	Evolution, Princeton University
2018	Seminar in Ecology, Rutgers University
2017	Evolution, Princeton University
2017	Seminar in Ecology, Rutgers University
2017	Exploring Climate Change Indicators, Rutgers University
2017	Transdisciplinary Perspectives on Coastal Climate Risk and Resilience, Rutgers University
2016	Biological Oceanography, Rutgers University
2016	Oceanography Seminar, Rutgers University
2015	Seminar in Ecology, Rutgers University
2015	Advanced Geomatics, Rutgers University
2014	Seminar in Ecology, Rutgers University
2014	Science, Environment, & Media, Rutgers University
2013	Seminar in Fisheries Science and Management, Rutgers University
2013	Seminar in Ecology, Rutgers University
2013	Topics in Ecology, Evolution, and Natural Resources, Rutgers University

MENTORING

Postdoctoral Advisor

Aurore Maureaud, 2022-present
Brendan Reid, 2020-present
Alexa Fredston, 2020-2022
Joyce Ong, 2017-2020
Lisa McManus, 2017-2020
Edward Tekwa, 2016-2020
Jude Kong, 2019-2019
Allison Dedrick, 2017-2019
Rebecca Selden, 2015-2019
Sarah Gignoux-Wolfsohn, 2016-2018 (co-advised with Brooke Maslo, Rutgers University)
Emily Moberg, 2016-2018
Tim Walsworth, 2016-2018 (co-advised with Daniel Schindler, U. Washington)
Adrian Stier, 2016 (co-advised with Daniel Schindler, U. Washington)
James Morley, 2015-2018
Ryan Batt, 2014-2017

Primary Graduate Advisor

Maya Zeff, Ph.D., Ecology & Evolutionary Biology, UCSC, 2023-present (projected 2028)
Kyra Fitz, Ph.D., Ecology & Evolution, Rutgers, 2020-present (projected 2025)
Jaelyn Bos, Ph.D., Ecology & Evolutionary Biology, UCSC, 2020-present (projected 2025)
Jeewantha Bandara, Ph.D., Ecology & Evolution, Rutgers, co-advised with John Wiedenmann, 2021-present (projected 2025)
Jeewantha Bandara, M.S., Ecology & Evolution, Rutgers, (Fulbright Scholar, Sri Lanka), 2019-2021
Zoë Kitchel, Ph.D., Ecology & Evolution, Rutgers, 2017-present (projected 2023)
René Clark, Ph.D., Ecology & Evolution, Rutgers, 2017-present (projected 2023)
Katrina Catalano, Ph.D., Ecology & Evolution, Rutgers, 2016-2022
Jennifer Hoey, Ph.D., Ecology & Evolution, Rutgers, 2014-2020
Patrick Flanagan, M.S., Oceanography, Rutgers, 2014-2017

Graduate Committees

José Ramírez-Garofalo, Ph.D. Ecology & Evolution (Rutgers), 2022-present
George Bonsall, M.S., Biology (Old Dominion University), 2022-present
Dylan Simpson, Ph.D. Ecology & Evolution (Rutgers), 2022-present
Jake Lawlor, Ph.D. Ecology & Evolution (McGill University), 2020-present
Robert Kwait, Ph.D. Ecology & Evolution (Rutgers), 2020-present
Christian Crosby, Ph.D. Ecology & Evolution (Rutgers), 2021-2022
Leon Tkacenko, Ph.D. Ecology & Evolution (Rutgers), 2020-2022
Emily Manuel, M.S. Ecology & Evolution (Rutgers), 2020-2021
Laina Lockett, Ph.D., Ecology & Evolution (Rutgers), 2019-2022
Seth Bromagen, Ph.D., Ecology & Evolution (Rutgers), 2019-2022
Jason Toy, Ph.D., Ecology and Evolutionary Biology (U. California, Santa Cruz), 2018-2022
Jem Baldisimo, Ph.D., Ecological Sciences (Old Dominion University), 2018-present
Iván Lopez, M.S., Biology (Old Dominion University), 2018-2022
Alexa Fredston-Hermann, Ph.D., Env. Science & Management (U. California, Santa Barbara), 2015-2020
Colleen Smith, Ph.D., Ecology & Evolution (Rutgers), 2015-2020
Michael Roswell, Ph.D., Ecology & Evolution (Rutgers), 2015-2019
Alicia Cheripka, M.S., Marine Biology, (U. North Carolina Wilmington), 2017-2018
Chris Free, Ph.D., Oceanography (Rutgers), 2016-2018
Oliver Stringham, Ph.D., Ecology & Evolution (Rutgers), 2016-2018
Raphael Valentin, Ph.D., Ecology & Evolution (Rutgers), 2015-2018
Nick Lorusso, Ph.D., Ecology & Evolution (Rutgers), 2014-2018
Bethanne Bruninga-Socolor, Ph.D., Ecology & Evolution (Rutgers), 2014-2018
Katie Nickerson, M.S. Oceanography (Rutgers), 2016-2017
Lisa McManus, Ph.D., Ecology & Evolutionary Biology (Princeton U.), 2014-2017
Sean Griffin, M.S., Ecology & Evolution (Rutgers), 2014-2015

External examiner or opponent for international PhD students

Yosr Ammar, University of Stockholm, 2021
Isaac Brito Morales, University of Queensland, 2021
Esther Beukhof, Technical University of Denmark, 2019
Sun Kim, University of Queensland, 2019

PROFESSIONAL SERVICE

National and International

2022-2025	Board Member, Beijer Institute of Ecological Economics, The Royal Swedish Academy of Sciences
2022-present	Editorial Board, *Ecology Letters* (CNRS, French National Centre for Scientific Research)
2021-present	Scientific Advisory Panel, BiodivERsA project *Eastern Tropical Pacific reef fish on the move: Biodiversity reorganisation and societal consequences (EASMO)*
2019-present	Contributing Member of F1000 Prime Faculty, Theoretical Ecology Section
2020-2026	Chair (2022-2026) and Member (2020-2021), Mercer Award Subcommittee, Ecological Society of America
2023	Guest editor for *Proceedings of the National Academy of Sciences*
2022-2023	Guest Editor, Annual Review of Ecology, Evolution, and Systematics
2022-2023	Organizing committee, Species on the Move conference, Naples, FL
2018-2022	Subject Editor, *Ecography* (Nordic Society Oikos)
2022	Organizer, "Integrating Theory and Big Data for Species on the Move" organized oral session at Ecological Society of America annual meeting
2021	Guest editor for *Proceedings of the National Academy of Sciences*

2021	SEEDS Mentor at the Ecological Society of America annual meeting
2020	Guest editor for *Proceedings of the National Academy of Sciences*
2016	National Science Foundation review panel
2015	Top Reviewer for *Molecular Ecology*
2014	National Science Foundation review panel
2014	Organizer, "Climate and beyond: cumulative impacts on species range shifts." Symposium at the Ecological Society of America meeting, Sacramento, CA.
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	Integrative Leadership Task Force, Society for Conservation Biology
2008-2010	Co-founder & Senior Articles Editor, Stanford Journal of Law, Science, and Policy

Research or training networks and working groups

2023-present	Working group member, "Climate change and ecosystem services: the critical but uncertain role of ecosystem acclimation" (NSF)
2021-present	Working group member, BIOSHIFTS: Global redistribution of biodiversity: a macro- and eco-evolutionary approach to understand species vulnerability to global changes (CESAB)
2020-present	Working group member, FISHGLOB: Fish biodiversity under global change - a worldwide assessment from scientific trawl surveys (CESAB-CIEE)
2020-present	Member, Group on Earth Observations Biodiversity Observation Network (GEO BON) Genetic Composition Working Group
2020-present	Member, Group on Earth Observations Biodiversity Observation Network (GEO BON) Species Populations Working Group
2019-present	Member, ICES-PICES Working Group on Impacts of Warming on Growth Rates and Fisheries Yields
2018-present	Member, Research Coordination Network (RCN) for Evolution in Changing Seas
2016-present	Principal Investigator, Nereus Program for Predicting Future Oceans, an interdisciplinary and global network of researchers studying the human-ocean system
2020	Expert Group Member, "Gap Analysis of U.S. marine biodiversity protection: Scoping a framework for marine stewardship," led by Emmett Duffy and Daniel Dunn
2019	Openscapes Champion (inaugural cohort), a training and professional network to foster open practices in environmental science
2018	Fisheries Innovation Scotland workshop on Global synthesis of climate impacts on fish distributions and growth and implications for Scottish fisheries, Aberdeen, Scotland
2017	Ocean Change and People: A COMPASS Communication and Policy Workshop, Warrenton, VA
2013	Visioning Workshop for an Institute for Sustainable Earth and Environmental Software (ISEES), NCEAS, Santa Barbara, CA

University

2020-present	Director, Graduate Program in Ecology & Evolution, Rutgers University
2017-present	Rutgers Dive Control Board for Scientific Diving, one of two Organizational Member Representatives from Rutgers to the American Academy of Underwater Sciences (AAUS)
2021-2022	Executive Committee, Department of Ecology, Evolution, and Natural Resources, Rutgers University
2020-2022	Founding Chair, Committee on Diversity, Equity, and Inclusion, Graduate Program in Ecology & Evolution, Rutgers University

2021	School of Graduate Studies Strategic Planning Committee for Diversity and Inclusion
2019	Top 50 Rutgers experts cited in the news media
2018-2019	Undergraduate Program Committee, Department of Ecology, Evolution, and Natural Resources, Rutgers University
2018	Organizing committee, Rutgers Climate Symposium on "Climate Change and Food Security," Rutgers Climate Institute
2017-2018	Organizer, COMPASS Science Communications Workshop, Rutgers University
2014-2018	Executive Committee, Ecology & Evolution Graduate Program, Rutgers University
2014-2018	Chair, Seminar Committee, Ecology and Evolution Graduate Program, Rutgers University
2018	Top 50 Rutgers experts cited in the news media
2017	Search Committee, Vice Chancellor for Research & Innovation, Rutgers University
2017	Search Committee, Marine Social Science Assistant Professor, Department of Human Ecology, Rutgers University
2016	Organizing committee, Rutgers Climate Symposium on "Climate Change, Ecology and Health," Rutgers Climate Institute
2014	Science & Vision Committee, Institute of Earth, Ocean, and Atmosphere, Rutgers University

Outreach, Policy, and Management

2019-present	Member, Distribution Mapping and Analysis Working Group (DisMAWG), NOAA Fisheries
2021-present	Board of Directors, Tuckernuck Land Trust, Nantucket, MA
2018-present	Science Advisor, Oceana, Washington, DC (international marine conservation non-profit)
2016-present	Advisor, Chewonki Foundation, Wiscasset, ME (environmental education non-profit)
2014-2022	Developed and maintain OceanAdapt (http://oceanadapt.rutgers.edu), a website that provides open data and visualizations of past and future marine species distribution shifts. Used by the US Environmental Protection Agency and the US Global Change Research Program as a climate change indicator. Acquired by NOAA Fisheries as the Distribution Mapping and Analysis Portal (https://apps-st.fisheries.noaa.gov/dismap/).
2022	Speaker, Charette on marine biodiversity and large-scale marine conservation efforts, Environmental Defense Fund
2019	Participant, Climate and Fisheries Greater Atlantic Science Workshop, organized by the Natural Resources Defense Council
2017	Participant, Adaptation Challenge Workshop, Coral Reef Alliance (CORAL)
2017	Participant, Changing Ocean Conditions Related to Fisheries Workshop, Mid-Atlantic Regional Ocean Council (MARCO)
2017	Interviewee for "Fisheries, Aquaculture and Climate Change: A New Jersey Perspective," an educational video produced by the Rutgers Climate Institute: https://climatechange.rutgers.edu/rci-media/videos-and-other-broadcasts/fisheries-aquaculture-and-climate-change-a-new-jersey-perspective
2017	Interviewee for "Tools of Science: Modeling," an educational video produced by Bidle K.D., K. Thamatrakoln, J. McDonnell, J. Kurz, and C. Metzler, Rutgers University: https://www.youtube.com/watch?v=RK9m4OmFAbY
2016	New England legislators' briefing on ocean change and fisheries, organized by COMPASS
2016	Capitol Hill Briefing on ocean change and fisheries, Washington, DC, organized by COMPASS
2016	Roundtable Speaker, Science and Policy for a Changing Ocean, Washington, DC, organized by COMPASS
2016	Interviewee for "Climate Change and the Jersey Shore: Impacts on Coastal Communities, Ecosystems and Economies," an educational video produced by the New Jersey Climate

	Adaptation Alliance: https://njadapt.rutgers.edu/our-work/videos?i=Climate-Change-and-the-Jersey
2015-2016	Collaborated with U.S. Environmental Protection Agency (EPA) to develop "Marine Species Distribution" climate change indicator: https://www.epa.gov/climate-indicators/climate-change-indicators-marine-species-distribution
2015-2016	South Atlantic Climate Variability and Fisheries Ecosystem Plan II Section Writing Team, South Atlantic Fisheries Management Council
2014-2016	Northeast Regional Planning Body (RPB) Fish Work Group member
2014	Volunteer scientist, STEM Educators' Series, Institute of Marine and Coastal Sciences, Rutgers University
2013	Capitol Hill Briefing on ocean change and fisheries, Washington, DC, organized by the American Fisheries Society
2013	Panelist, "Bridging the Climate Divide: Informing The Response to Hurricane Sandy and Implications for Future Vulnerability." Rutgers Climate Institute.
2011-2012	National Climate Assessment, Ecosystem Services Technical Input Team

Peer Review

Journals: *Science, Nature, Proceedings of the National Academy of Sciences, Current Biology, eLife, Ecology Letters, Molecular Ecology, The American Naturalist, Ecology, Evolution, Methods in Ecology and Evolution, Science Advances, Ecological Applications, Heredity, Conservation Biology, Biological Conservation, Journal of Biogeography, Oceanography, Journal of Marine Biology, PLOS ONE, Fish and Fisheries, Marine Ecology Progress Series, ICES Journal of Marine Science, Progress in Oceanography, Oceanography, Regional Environmental Change, Marine Policy*

Funding Programs: *National Science Foundation, Society for the Study of Evolution (SSE), German Centre for Integrative Biodiversity Research (iDiv)Halle-Jena-Leipzig, David H. Smith Conservation Fellowship Program, Coral Reef Alliance, Stew Tweed Fisheries & Aquaculture Scholarship Fund, National Sea Grant, The David and Lucile Packard Foundation*

Books: *Princeton University Press*

Conferences and Reports: *International Marine Conservation Congress, California Ocean Science Trust, Center for American Progress*