

KIMBERLY L. OREMUS

Appointment:

2025-present Associate Professor, School of Marine Science and Policy, University of Delaware
2018-2025 Assistant Professor, School of Marine Science and Policy, University of Delaware

Affiliations:

2019-present Affiliated Faculty, Department of Economics, University of Delaware
2020-present Affiliated Faculty, Biden School of Public Policy, University of Delaware
2022-present Affiliate, Delaware Environmental Institute

Past Affiliations and Appointments:

2021-2023 Career Advancement and Mentorship Program, Northeastern Agricultural and Resource Economics Association
2019-2022 Beijer Young Scholars III, Beijer Institute, Royal Swedish Academy of Sciences
2017-2018 Postdoctoral Researcher, Bren School, University of California, Santa Barbara

Education:

Ph.D. Sustainable Development, Columbia University, 2017
M.P.A. Environmental Science and Policy, Columbia University, 2011
B.S. Management Science and Engineering, Stanford University, 2005

Research Interests:

Environmental economics and policy, Climate change, International agreements, Fisheries, Marine plastics, Coastal communities

Publications:

(+ equal first authorship, x equal corresponding author, * supervised student or researcher)

A. Papp, A. x, **Oremus, K. L.** x (2025). Plastic bag bans and fees reduce harmful bag litter on shorelines. *Science*, 388, <https://doi.org/10.1126/science.adp9274>

Hurley, B. M.*, **Oremus, K. L.**, & Birkenbach, A. M. (2024). Testing the waters: the state of U.S. shellfish permitting regulations. *Animal Frontiers*, 14(4), 28–31. <https://doi.org/10.1093/af/vfae016>

Oremus, K.L., Rising, J., Ramesh, N., Ostroski*, A. (2024). GO-FISH: Geolocated Ocean-Fishery Identified Spawning Habitats. *Scientific Data*, 11(1), 1–7. <https://doi.org/10.1038/s41597-024-03348-3>

Dobson, J. L.*, Kahley, M. R.*, Birkenbach, A. M., & **Oremus, K. L.** (2023). Harassment and obstruction of observers in U.S. fisheries. *Frontiers in Marine Science*, 10. <https://doi.org/10.3389/fmars.2023.1232642>

Oremus, K. L. +, Frank, E. G. +, Adelman, J. J.*, Cruz, S.*, Herndon, J., Sewell, B., & Suatoni, L. (2023). Underfished or unwanted? Much blame cast upon fisheries policy may be misguided. *Science*, 380(6645), 585–588. <https://doi.org/10.1126/science.adf5595>

Oremus, K. L., Bone, J., Costello, C., Molinos, J. G., Lee, A., Mangin, T., & Salzman, J. (2020). Governance challenges for tropical nations losing fish species due to climate change. *Nature Sustainability*, 3(4), 277–280. <https://doi.org/10.1038/s41893-020-0476-y>

Oremus, K. L. (2019). Climate variability reduces employment in New England fisheries. *Proceedings of the National Academy of Sciences of the United States of America*, 116(52), 26444-26449. <https://doi.org/10.1073/pnas.1820154116>

Ramesh, N., Rising, J. A., & **Oremus, K. L.** (2019). The small world of global marine fisheries: The cross-boundary consequences of larval dispersal. *Science*, 364(6446), 1192–1196. <https://doi.org/10.1126/science.aav3409>

Meng, K. C., **Oremus, K. L.**, & Gaines, S. D. (2016). New England Cod Collapse and the Climate. *PLOS ONE*, 11(7), e0158487. <https://doi.org/10.1371/journal.pone.0158487>

Oremus, K. L., Suatoni, L., & Sewell, B. (2014). The requirement to rebuild US fish stocks: Is it working? *Marine Policy*, 47, 71–75. <https://doi.org/10.1016/j.marpol.2014.02.007>

Brunner, R., Ali, F., Ambel, C. C., Aquino, P., Bautista, K., Bendandi, B., Karpati, A., **Lai, K.**, Barbour-McKellar, J., Roos, M., Rudder, N., Soergel, E. & Valencia, N. (2010). Back to its roots: REDD+ via the Copenhagen Accord. *Reconsidering Development Journal*, 1(1). <https://pubs.lib.umn.edu/index.php/reconsidering/article/view/565>

Working Papers:

(+ equal first authorship)

Revisions requested at *The Review of Economic Studies*. Frank, E. + and **Oremus, K.L.** + (May 11, 2023). Regulating Biological Resources: Lessons from Marine Fisheries in the United States. University of Chicago, Becker Friedman Institute for Economics Working Paper No. 2023-63, Available at SSRN: <http://dx.doi.org/10.2139/ssrn.4445576>

Reports:

Technical Contributor to Hsiang et al. (2023) Ch. 19. Economics. In: Fifth National Climate Assessment. Crimmins, A.R., C.W. Avery, D.R. Easterling, K.E. Kunkel, B.C. Stewart, and T.K. Maycock, Eds. U.S. Global Change Research Program, Washington, DC, USA. <https://nca2023.globalchange.gov/chapter/19/>

Contributing author to Hildebrand et al. (2023) Report on Assessing Progress on Ocean and Climate Action: 2022-2023. Mitchell, C., and K. Goldstein, Eds. Global Ocean Forum, Orleans, MA, USA. <https://rocainitiative.files.wordpress.com/2023/11/roca-progress-report-2022-2023.pdf>

Invited Conferences and Presentations:

2024: SEA, "Are Plastic Bag Regulations Effective in Reducing Plastic Litter? Evidence from Shoreline Cleanups"

2024: COP29 Virtual Ocean Pavilion Live Event, moderator for "Oceans of Innovation: Leveraging Technology for Ocean Biodiversity and Community Empowerment"

2024: NAREA, "Are Plastic Bag Regulations Effective in Reducing Plastic Litter? Evidence from Shoreline Cleanups"

2024: Northwest Fisheries Science Center, Monster Jam Seminar Series, "The Magnuson-Stevens Act: How much has the US rebuilt its fisheries?"

2023: COP28 Virtual Ocean Pavilion Live Event, "Shifting Goals: What is the Ocean We Want?"

2023: United Kingdom Climate Change Committee, "Fisheries in a Changing Climate"

2023: Harvard Radcliffe Institute Next in Science, "New Challenges for the World's Fisheries"

2022: UC Davis National Science Foundation Research Traineeship (NRT) Program, "Adrift and in Hot Water: Hidden Risks from Transboundary Larval Dispersal under Climate Change"

2022: NBER Summer Institute EEE, "Regulating Biological Resources: Lessons from Marine Fisheries in the United States"

2022: LSE Imperial College Workshop in Env. Econ., "Regulating Biological Resources: Lessons from Marine Fisheries in the United States"

2022: IIFET, "The Magnuson-Stevens Act: How much has the US rebuilt its fisheries?"

2020: AERE@ASSA Annual Meeting, San Diego, "Regulating Biological Resources: Lessons from Marine Fisheries in the United States"

2019: Center for Environmental Economics and Policy, Columbia University, "Confronting the Challenge of Fisheries Governance in Tropical Regions"

2019: Beijer Institute, The Royal Swedish Academy of Sciences, Speed Talk: "International Fish Networks"

2018: Department of Economics, University of Delaware, "Climate's impact on livelihoods in New England Fisheries"

2018: Sustainable Development Research Symposium, Columbia University, "The value of transboundary fishing agreements under climate change"

2017: School of Marine Science and Policy, University of Delaware, "Fishery management in a dynamic environment "

2016: American Geophysical Union Ocean Sciences Meeting, "New England cod collapse and climate"

2014: SmarterCape Economic Summit, "Atlantic cod collapse and climate"

2013: American Geophysical Union Fall Meeting, "The requirement to rebuild US fish stocks: Is it working?"

Popular Science:

Oremus, K.L. & Birkenbach, A. "[Fisheries Have a Data Infrastructure Problem.](#)" *Nature Sustainability: World Oceans Day 2020.* (2020).

Oremus, K.L. "[Making Fisheries a Part of Climate Talks.](#)" *Nature Sustainability: Behind the paper.* (2020).

Ramesh, N., **Oremus, K. L.**, & Rising, J. A. "[A Connected Ocean: Drifting Fish Larvae Bind Nations' Marine Territories.](#)" *TheScienceBreaker.* (2020).

Ramesh, N., Rising, J. A. & **Oremus, K. L.** "[Fish larvae float across national borders, binding the world's oceans in a single network.](#)" *The Conversation.* (2019).

Selected Press:

[Time Magazine](#), [Washington Post](#), [New York Times](#), [BBC](#), [Delaware Public Media](#), [Huffington Post](#), [Cape Cod Times](#), [UN Dispatch](#), [Courthouse News Service](#), [ScienceNews](#), [Earth.com](#), [Gizmodo](#), [Data Is Plural](#)

Current Graduate students:

Kent Wicker (PhD Marine Policy), Erinn Bell (Masters in Marine Policy), Whitney Morgan (PhD Environmental Economics), Madeline Hawley (Masters in Environmental Economics)

Former Graduate students:

Seleni Cruz, Assistant Professor at Texas A&M—Galveston (PhD Env. Econ., graduated 2025)

Ben Hurley, Harvard Law School (MMP, graduated 2024)

Jessica Dobson, Environmental Agency, UK (MMP, graduated 2022)

Alexis Maxwell, NOAA (MMP, graduated 2019)

Service:

2022-present: Faculty advisor for GSA for SMSP-Newark, University of Delaware

2022-present: Climate Hub Council, University of Delaware

2020-2023: Co-host, virtual Planetary Management Seminar

2019: Organizing committee, Sustainable Development Research Symposium, Columbia University

2018: Lead organizer, Women in Sustainable Development Conference, Columbia University

Editorial Board:

2025-present: *Scientific Data*

Referee Service:

American Economic Review, Conservation Letters, Fish and Fisheries, Frontiers in Marine Science, ICES Journal of Marine Science, Journal of the Association of Environmental and Resource Economists, Marine Resource Economics, Nature Climate Change, Nature Sustainability, Ocean Sustainability, Proceedings of the National Academy of Sciences, Science, and The Review of Economics and Statistics

Maine Sea Grant, New York Sea Grant, Rhode Island Sea Grant

Teaching Experience:

2024-present: Capstone in Environmental Issues, graduate, University of Delaware

2022-present: Environmental Economics, graduate, University of Delaware

2021-2023: Marine Environmental Studies (capstone course), undergraduate, University of Delaware

2019-2022: Economics Coupling Human and Natural Systems, graduate, University of Delaware

2013-2014: Analytics for Environmental Science and Policy, graduate, Columbia University