

Phillip Scott Levin | Curriculum Vitae

University of Washington | College of the Environment
 School of Environmental & Forest Science
 School of Marine & Environmental Affairs
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Education

1993-1994	Post-doctoral Fellowship — University of North Carolina. Mark Hay, Advisor
1988-1993	Ph.D., Zoology — University of New Hampshire. Peter Sale, Advisor
1980-1984	B.A., Zoology — University of Texas

Positions Held

2025-	Executive Director (interim), EarthLab, University of Washington
2025-	Director, The Nature Record National Assessment
2016-	Professor of Practice — School of Environmental and Forest Sciences, University of Washington
2023-2025	Director, National Nature Assessment, The White House Office of Science & Technology Policy, Executive Office of the President.
2016-2023	Lead Scientist — The Nature Conservancy, Washington
2015-2016	Director — Conservation Biology Division, NOAA Northwest Fisheries Science Center
2012-2016	Senior Scientist, NOAA
2002-2016	Program Manager — Ecosystem Science Program. Northwest Fisheries Science Center
1999-2002	Research Fishery Biologist — Northwest Fisheries Science Center, NOAA
1998-1999	Research Assistant Professor — University of California, Santa Cruz
1994-1997	Assistant Professor of Marine Biology — Texas A&M University
1990-1993	NSF Graduate Research Fellow — University of New Hampshire
1988-1990	Teaching Assistant — University of New Hampshire
1984-1988	High School Science Teacher — Churchill High School, San Antonio TX
1980-1984	Assistant Manager of Fish, Austin Pet Ranch, Austin, TX

Research Grants and Contracts

Principal Investigator or Co-Principal Investigator on more than 70 grants and contracts totaling over \$15 million. Research and synthesis activities have addressed ecosystem-based management, social-ecological systems, biodiversity conservation, climate adaptation, environmental justice, nature and human health, and the weaving of diverse knowledge systems into environmental stewardship.

Selected Recent Publications

1. Levin, P.S. & Francis, T. (2027) The Nature Record: An Assessment of Nature and Its Benefits to People in the United States. MIT Press. Forthcoming
2. Fisher, M.C., Nelson, L.K., Francis, T., Levin, P.S., Samhour, J., Harvey, C., Dee, L., Marshall, K.N., Miller, S.J., Moore, S.K., Barnes, M.L., Cha, C., Cinner, J.E., Gray, S.A., Punt, A.E., Ridings, C., Franz, S. (2025) Exploring unintended outcomes and trade-offs of climate adaptation for human well-being, using qualitative network models. *Ecology and Society* 31(1):doi.org/10.5751/ES-16551-310101.
3. Chowdhury, P.K.R., Robertson, J.C., Levin, P.S., Case, M.J., Brown, D.G. (2025). Opportunities and challenges to community-level adoption of natural climate solutions in Washington State. *PLoS Climate*. 4 (2):e0000580
4. Tallis, H., Fenichel, E.P., Petes, L., Hsiang, S., Levin, P.S., Levy, H., Lubchenco, J. 2024. Mainstreaming nature across economic, security and health policy. *Science* 385: 498-50.1
5. Zimmerman, O., Eison, T., Carey, R. and Levin, P.S., 2024. Addressing inequities and meeting needs of Indigenous communities in floodplain management. *Frontiers in Climate* 6, p.1306542.
6. Ettinger, A.K., Bratman, G.N., Carey, M., Hebert, R., Hill, O., Kett, H., Levin, P., Murphy-Williams, M. and Wyse, L., 2024. Street trees provide an opportunity to mitigate urban heat and reduce risk of high heat exposure. *Nature Scientific Reports*, 14(1), p.3266.
7. Lombard, A, Clifford-Holmes, J., Goodall, V., Snow, B., Truter, H., Morgera, E. Jones, P.J.S., Flannery, W., Hicks, C., Gipperth, L., Cochrane, K., Allison, E., Diz, D. Erinosho, B., Peters, K., Levin, P.S., Holthus, P., Szephegyi, M., Awad, A. Golo, H. Vrancken, V. (2023) Principles for transformative ocean governance. *Nature Sustainability* Doi.org/10.1038/s41893-023-01210-9
8. Hegeman, E. and Levin, P.S. (2023) Using human health disparities and salmon health to guide spatial prioritization of green stormwater infrastructure Landscape and Urban Planning. 240,104905.
9. Watson, J.R., Spillman, C.M., Little, L.R., Hobday, A.J., Levin, P.S. (2023). Enhancing the resilience of blue foods to climate shocks using insurance. *ICES Journal of Marine Science* DOI: 10.1093/icesjms/fsad175

10. Nelson, L.K., Cullen, A., Koehn, L., Harper, S., Runnebaum, J., Bogeberg, M. Strawn, A., Levin P.S. (2023) Understanding perceptions of climate vulnerability to inform more effective adaptation in coastal communities. *PLoS Climate* 2 (2), e0000103
11. Samhouri, J.F., Shelton, A.O., Williams, G.D., Feist, B., Hennessey, S., Bartz, K., Kelly, R.P., O'Donnell, J.L., Sheer, M., Stier, A.D., Levin, P.S. (2023). How much city is too much city? Biodiversity and ecosystem functioning along an urban gradient at the interface of land and sea. *Frontiers in Marine Science*. 16, 10.3389/fmars.2022.931319
12. Stier, A., Essington, T.E., Samhouri, J.F., Siple, M.C., Halpern, B.S., White, C., Lynham, Salomon, A., Levin, P.S. 2022. Avoiding critical thresholds through effective monitoring. *Proceedings of the Royal Society B*. 289: 20220526.
13. Koehn, L.E., Nelson, L.K., Samhouri, J.F., Norman, K., Jacox, M., Cullen A., Levin, P.S. 2022. Social-ecological vulnerability of U.S. West Coast fishing communities to climate change. *PLoS One* 17 (8), e0272120
14. Nelson, L.K., Bogeberg, M., Cullen, A., Koehn, L.E., Strawn, A., Levin, P.S. 2022. Perspectives on managing fisheries for community wellbeing in the face of climate change. *Maritime Studies* 2022: 1-10.
15. Messenger, M.L., Ettinger, A.K., Murphy-Williams, M., Levin P.S. 2021. Fine-scale assessment of inequities of inland flood vulnerability. *Journal of Applied Geography*. 133: 102492
16. Robertson, J.C., Randrup, K.V., Howe, E.R., Case, M.J., Levin, P.S. 2021. Leveraging the potential of nature to meet net zero greenhouse gas emissions in Washington State. *PeerJ* 9: e11802.
17. Levin, P.S., Gray, S.A., Möllmann, C., Stier, A.C. 2021. Perception and Conflict in Conservation: The Rashomon Effect. *BioScience*, 71: 64-72.
18. Ettinger, A.K., Bhule, E.R., Feist, B.E., Howe, E., Spromberg, J.A., Scholz, N.L., Levin, P.S. 2021. Prioritizing conservation actions in urbanizing landscapes. *Nature Scientific Reports*. 11, 818 (2021).
19. Levin, P.S., Howe, E., Robertson, J.C. 2020. Impacts of stormwater on coastal ecosystems: the need to match the scales of management objectives and solutions. *Philosophical Transactions of the Royal Society of London*. B375 (1814) 20190460
20. Messenger, M.L., Davies, I.P., Levin, P.S. (2020) Low-cost biomonitoring and high-resolution, scalable models of urban metal pollution. *Science of the Total Environment* <https://doi.org/10.1016/j.scitotenv.2020.144280>
21. Stier, A.C., Shelton, A.O., Samhouri, J.F., Feist, B.E., Levin, P.S. 2020. Fishing, environment, and the erosion of a population portfolio. *Ecosphere* 11 (11), e03283
22. Koehn, L.E., Essington, T.E., Levin, P.S., Marshall, K.N., Anderson, L.G., Bundy, A., Carothers, C., Coleman, F., Grabowski, J.H., Houde, E. and Jensen, O.P., 2020. Case studies demonstrate capacity for a structured planning process for ecosystem-based

- fisheries management. *Canadian Journal of Fisheries and Aquatic Sciences*, 77: 1256–1274.
23. Okamoto, D.K., Armitage, D.R., Cleary, J.S., Dressel, S.C., Jones, R.R., Francis, T.B., Kitka, H., Lee, L.L., Mclsaac, J., Poe, M., Punt, A.E., Reifenstuhl, S., Shelton, A.O., Schmidt, J.O. Silver, J.J., Siple, M.C., Thornton, T.F., Voss, R. Woodruff, J., Levin, P.S. 2020. Attending to spatial social-ecological sensitivities to improve trade-off analysis in natural resource management. *Fish and Fisheries*, 21: 1-12
 24. Okamoto, D.K., Hessing-Lewis, M., Samhour, J.F., Shelton, A.O., Stier, A., Levin, P.S., Salomon, A.K. 2020. Spatial variation in exploited metapopulations obscures risk of collapse. *Ecological Applications*. 30: e02051
 25. G. N. Bratman, C. B. Anderson, M. G. Berman, B. Cochran, S. de Vries, J. Flanders, C. Folke, H. Frumkin, J. J. Gross, T. Hartig, P. H. Kahn Jr., M. Kuo, J. J. Lawler, P. S. Levin, T. Lindahl, A. Meyer-Lindenberg, R. Mitchell, Z. Ouyang, J. Roe, L. Scarlett, J. R. Smith, M. van den Bosch, B. W. Wheeler, M. P. White, H. Zheng, G. C. Daily (2019) Nature and mental health: An ecosystem service perspective. *Science Advances*. 5, eaax0903
 26. Armitage, D.R., Okamoto, D.K., Silver, J.J., Francis, T.B., Levin, P.S., Punt, A.E., Davies, I.P., Cleary, J.S., Dressel, S.C., Jones, R.R. and Kitka, H., 2019. Integrating Governance and Quantitative Evaluation of Resource Management Strategies to Improve Social and Ecological Outcomes. *BioScience* 69: 523-532
 27. Davies, I.P., Haugo, R.D., Robertson, J., Levin, P.S. 2019. The unequal vulnerability of communities-of-color to wildfire. *PLoS One*. 13: (11) e0205825
 28. Levin, P.S., Marshall, K.N., Essington, T.E., Koehn, L., Anderson, L.G., Bundy, A., Carothers, C., Coleman, F., Gerber, L.R., Grabowski, J.H., Houde, E., Jensen, O.P, Möllmann, C., Rose, K., Sanchirico, J.N., Smith, A.D.M. 2018. Building effective fishery ecosystem plans. *Marine Policy* 92: 48-57

Professional honors and recognition

Numerous honors including Recipient of the U.S. Department of Commerce Silver Award for Meritorious Federal Service, the NOAA Bronze Medal, the Seattle Aquarium Conservation Research Award, and the David H. Smith Senior Fellowship; appointed in 2023 to direct the first-ever U.S. National Nature Assessment and selected as the 2018 Ransom A. Myers Memorial Lecturer of the Society for Conservation Biology.

Teaching Experience

More than 40 years of teaching and mentoring experience spanning high school, undergraduate, graduate, and professional education. Developed or co-developed 10 new courses in marine ecology, sustainability, climate mitigation, conservation, and natural resource management, and taught at the University of Washington, Stanford University, the University of California, Santa Cruz, Texas A&M University, Shoals Marine Laboratory, and Churchill High School.

Invited Talks

Delivered more than 120 invited seminars, keynote addresses, and plenary presentations at universities, scientific societies, museums, and governmental organizations in North America, Europe, Australia, New Zealand, Asia, Africa, and the Middle East, including opening plenaries at the Ecological Society of America and the Society for Conservation Biology and keynote addresses for the American Society of Limnology and Oceanography, International Marine Conservation Congress, North Pacific Marine Science Organization, and the International Council for the Exploration of the Sea.

Editorial Service

2026	Associate Editor, Earth Stewardship
2014-2025	Editorial Board, Conservation Letters
2019-2022	Editorial Board, Sustainability
2015-2017	Senior Associate Editor, Conservation Letters
2015	Guest Editor, Coastal Management
2009-2014	Senior Associate Editor, Conservation Letters
2008	Guest editor, Conservation Biology
2007	Guest editor, Conservation Biology
2004-2007	Editorial Board, Ecological Applications

Professional Activities

More than three decades of professional service through leadership roles in scientific societies, advisory committees, nonprofit boards, and federal interagency initiatives. Service has included presidency of the Western Society of Naturalists, membership on national committees for the NSF and CEQ, advisory roles to the Pacific Fisheries Management Council and National Center for Ecological Analysis and Synthesis, board service with FishWise and the Vashon Island Land Trust, and leadership of numerous university and NOAA committees.