

Jahred Liddie, PhD

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I am an environmental health scientist with interests in drinking water quality, environmental justice, statistics and data science, and public health.

EDUCATION

Harvard T.H. Chan School of Public Health Ph.D. in Population Health Sciences Dissertation: <i>Trends and Disparities in Contamination by Per- and Polyfluoroalkyl Substances in U.S. Community Water Systems</i> Adviser: Prof. Elsie Sunderland	2021-2025
Harvard T.H. Chan School of Public Health S.M. in Environmental Health	2019-2021
Harvard College A.B. in Environmental Sciences Engineering <i>Cum laude</i> , with departmental honors	2012-2016

EXPERIENCE

George Washington University - Milken Institute School of Public Health <i>Postdoctoral Associate</i> <i>Water, Health, and Opportunity Lab (led by Prof. Xindi Hu)</i>	Aug. 2025+ Washington, DC
Harvard University <i>Postdoctoral Fellow</i> <ul style="list-style-type: none">Led research projects on water system infrastructure disparities, PFAS drinking water occurrence, and temporal trendsMentoring master's and early-stage PhD students on related research projects	Feb. 2025 - current Cambridge, MA
Environmental Health and Engineering, Inc. <i>Part-time/Short-term Consultant</i> <ul style="list-style-type: none">Assistant manager (team of 8) for data entry project for PFAS concentrations in well water from public water systems nationwideEvaluated data collected for quality assurance/quality control and completeness and provided advice for data collection forms to clients	Oct. 2023 - Nov. 2023 Newton, MA
Silent Spring Institute <i>Summer Research Fellow</i> <ul style="list-style-type: none">Scraped, analyzed, and graphed time-series well water data on PFAS to assess historical exposuresGather, analyzed, and presented associations between sociodemographic factors and unregulated drinking water contaminants	Apr. 2020 - Dec. 2020 Newton, MA
Sphera (formerly thinkstep) <i>Sustainability Consultant</i> <ul style="list-style-type: none">Modeled environmental life cycles of building and construction products for comparison and industry associations to notify consumers and to establish industry-average benchmarksAssisted in implementing sustainability data collection software systems for clientsManaged a \$40k project to create multiple Environmental Production Declarations and a life cycle assessment report	2016-2019 Boston, MA
The Clorox Company <i>Product Safety Intern</i>	2016 Pleasanton, CA

Harvard University
Research Assistant
Sunderland Biogeochemistry of Global Contaminants Lab
World Bank
Water Security Intern
University of Alabama
Research Assistant
Bara Research Group

2015-2016
Cambridge, MA

2015
Washington, DC

2014
Tuscaloosa, AL

PEER-REVIEWED PUBLICATIONS

1. Gribble MO, Bennett BJ, **Liddie JM**, *et al.* Global Epidemiology of Paralytic Shellfish Poisoning: A Systematic Search Literature Review. *The Lancet Planetary Health* 2025, <https://doi.org/10.1016/j.lanplh.2025.05.001>
2. **Liddie JM**, Dai MQ, Hu XC, Sunderland EM. A Call for a Unified Database to Address Exposure Disparities in the United States. *Wiley Interdisciplinary Reviews - Water* 2025, 12 (4), e70033. <https://doi.org/10.1002/wat2.70033>
3. Maruzzo AJ, Hernandez AB, Swartz CH, **Liddie JM**, Schaidler LA. Socioeconomic Disparities in Exposures to PFAS and Other Unregulated Industrial Drinking Water Contaminants in U.S. Public Water Systems. *Environmental Health Perspectives* 2025, 133 (1), 017002. <https://doi.org/10.1289/EHP14721>
4. **Liddie JM**, Bind MA, Karra M, Sunderland EM. County-Level Associations between Drinking Water PFAS Contamination and COVID-19 Mortality in the United States. *Journal of Exposure Science and Environmental Epidemiology* 2024 Oct 6;1–8. <https://doi.org/10.1038/s41370-024-00723-5>
5. **Liddie JM**, Vieira CLZ, Coull BA, Sparrow D, Koutrakis P, Weisskopf MG. Associations between solar and geomagnetic activity and cognitive function in the Normative Aging study. *Environment International* 2024 May 1;187:108666. <https://doi.org/10.1016/j.envint.2024.108666>
6. **Liddie JM**, Schaidler LA, Sunderland EM. Sociodemographic Factors Are Associated with the Abundance of PFAS Sources and Detection in U.S. Community Water Systems. *Environmental Science and Technology* 2023 May 15. <https://doi.org/10.1021/acs.est.2c07255>
7. Azevedo A, **Liddie J**, Liu J, Schiff JE, Adamkiewicz G, Hart JE. Effects of portable air cleaners and A/C unit fans on classroom concentrations of particulate matter in a non-urban elementary school. *PLOS ONE* 2022 Dec 1;17(12):e0278046. <https://doi.org/10.1371/journal.pone.0278046>
8. Adamkiewicz G, **Liddie J**, Gaffin JM. The Respiratory Risks of Ambient/Outdoor Air Pollution. *Clinics in Chest Medicine* 2020 Dec 1;41(4):809–24. <https://pmc.ncbi.nlm.nih.gov/articles/PMC7665094/>
9. Wildnauer M, Mulholland E, **Liddie J**. Life Cycle Assessment of Asphalt Binder. TRID Database 2019. <https://trid.trb.org/view/1645171>
10. Hu XC, Tokranov AK, **Liddie J**, Zhang X, Grandjean P, Hart JE, *et al.* Tap Water Contributions to Plasma Concentrations of Poly-and Perfluoroalkyl Substances (PFAS) in a Nationwide Prospective Cohort of US Women. *Environmental Health Perspectives* 2019;127(6):067006. <https://doi.org/10.1289/EHP4093>
11. Scalfani VF, Williams AJ, Tkachenko V, Karapetyan K, Pshenichnov A, Hanson RM, **Liddie J**, and Bara, JE. Programmatic conversion of crystal structures into 3D printable files using Jmol. *Journal of Cheminformatics* 2016 Nov 23;8(1):66. <https://doi.org/10.1186/s13321-016-0181-z>

DATASETS

1. **Liddie JM**. PFAS Statewide Sampling Dataset. Harvard Dataverse; 2023. Available [here](#).

Replication datasets and code

1. **Liddie JM**, Bind M-A, Karra M, Sunderland EM. Replication Data for: County-Level Associations between Drinking Water PFAS Contamination and COVID-19 Mortality in the United States. Harvard Dataverse, V1, 2024. <https://doi.org/10.7910/DVN/PN0RI5>. Replication code available on [Github](#).
2. **Liddie JM**; Schaidler L, Sunderland EM. Replication Data for: Sociodemographic Factors Are Associated with the Abundance of PFAS Sources and Detection in U.S. Community Water Systems. Harvard Dataverse, V1, 2023. <https://doi.org/10.7910/DVN/0C06MR>. Replication code available on [Github](#).

WHITE PAPERS, PUBLIC COMMENTS, AND SELECTED MEDIA

1. **Liddie J**, Schaider L, Sunderland S. PFAS Statewide Sampling Interactive Map. Last update: 1/3/2024. Available [here](#).
2. Frueh L, Chan M, **Liddie J**, James-Todd T, Adamkiewicz G. Environmental Racism in Greater Boston: an Interactive Web Resource. Harvard Chan NIEHS Center for Environmental Health; 2021. Available [here](#).
3. Adamkiewicz G, Tripathy S, **Liddie J**, Woolf AD, Spence M. Poly- and Perfluoroalkyl Substances (PFAS) - Emerging Pollutants in New England: A White Paper. 2020. Available [here](#).
4. Levin R, Schwartz J, and **Liddie J**. Comment on the EPA Proposed Rule: Strengthening Transparency in Regulatory Science.

SELECT MEDIA COVERAGE

“Fighting forever chemicals.” [Harvard T.H. Chan School of Public Health](#). 5/1/2024.

“Living in a Racially Segregated Neighborhood Linked to a Shorter Lifespan.” [Health](#). 8/2/2023.

“PFAS and Environmental Justice.” The Environmental Justice Lab podcast. Listen [here](#). 6/28/2023.

“Forever chemicals are disproportionately polluting Black and Hispanic neighborhoods.” [The Verge](#). 5/16/2023.

“Communities of color disproportionately exposed to PFAS pollution in drinking water.” [Harvard T.H. Chan School of Public Health](#). 5/15/2023.

“Black and Latino communities more likely to have harmful PFA levels in water: Study.” [ABC News](#). 5/15/2023.

“Communities of color disproportionately exposed to PFAS in drinking water, study says.” [Axios](#). 5/15/2023.

INVITED PRESENTATIONS

National Sea Grant Program - PFAS Community of Practice Webinar Series, “Disparities in Contamination by PFAS in U.S. Community Water Systems: Current Understanding, Data Gaps, and Redress”, online webinar, 2025. [Virtual](#).

Environmental Law Institute, “Community Lawyering for Environmental Justice Part 10: Environmental Justice Implications of PFAS”, online webinar, 2024. [Virtual](#). Available [here](#) and a transcript of the panel was published in the *Environmental Law Reporter* [here](#).

Presenter and panelist, National PFAS Conference, 2024. *Ann Arbor, MI, USA*.

Emerging Contaminants in the Environment Conference, “Who is most exposed to PFAS in drinking water? Current insights and data gaps”, invited keynote speaker, 2024. [Virtual](#).

American Association for the Advancement of Science (Center for Scientific Evidence in Public Issues), “PFAS, Sociodemographic Factors and Implications for Communities and Environmental Justice”, panelist, 2023. [Virtual](#).

NAACP Legal Defense Fund (Thurgood Marshall Institute), panelist, 2023. *New York City, NY, USA*.

National PFAS Contamination Coalition, online meeting, 2023. [Virtual](#).

US EPA Federal-State Toxicology Risk Analysis Committee, webinar presentation, 2023. [Virtual](#). Summary available [here](#).

University of North Carolina at Chapel Hill, Center for Public Engagement with Science, IDEA Learners Meeting, “Designing classroom lessons on the human health effects of PFAS exposure,” 2023. *Chapel Hill, NC, USA (virtual)*.

California Department of Public Health, Data Group Meeting, 2023. *Sacramento, CA, USA (virtual)*.

CONFERENCE PRESENTATIONS

Oral presentation (presented by Aaron Maruzzo), Joint Annual Meeting of the International Society of Exposure Science and the International Society for Environmental Epidemiology, 2025. *Atlanta, GA, USA*.

Poster presentation, Harvard Climate Connect Symposium, 2025. *Cambridge, MA, USA*.

Oral presentation, International Society of Exposure Science, 2024. *Montréal, Canada*.

Poster presentation (presented by Prof. Matthew Gribble), International Society of Environmental Epidemiology, 2024. *Santiago, Chile*.

Oral presentation (accepted), International Society of Environmental Epidemiology, 2024. *Santiago, Chile*.

Poster, National PFAS Conference, 2024. *Ann Arbor, MI, USA*.

Poster (presented by Katherine Yang), American Geophysical Union, 2023. *San Francisco, CA, USA*.

Oral presentation, International Society of Exposure Science, 2023. *Chicago, IL, USA*.

Oral presentation (accepted), International Society of Environmental Epidemiology - North American Chapter, 2023. *Corvallis, OR, USA*.

Poster discussion, International Society of Environmental Epidemiology, 2022. *Athens, Greece*.

Symposium presentation (presented by Dr. Laurel Schaidler), International Society of Environmental Epidemiology, 2022. *Athens, Greece*.

Oral presentation (accepted), International Society of Exposure Science, 2022. *Lisbon, Portugal*.

Poster, 3rd National PFAS Meeting: Environmental Justice and Scientific Discovery, North Carolina State University Center for Environmental and Health Effects of PFAS and affiliates, 2022. *Wilmington, NC, USA*.

Poster, Science of PFAS Conference: Public Health and the Environment. Northeast Waste Management Officials Association and affiliates, 2022. *Marlborough, MA, USA*.

Moderator, Session: “Human exposure to PFAS, a threat for our health.” FLUOROS Global Conference, University of Rhode Island STEEP Superfund Research Program and affiliates, 2021. *Providence, RI, USA (virtual)*.

TEACHING AND MENTORING

Teaching

Teaching Assistant, *Harvard College, Cambridge, MA*. ESE 161: Applied Environmental Toxicology (2024-2025).

Teaching Assistant, *Harvard T.H. Chan School of Public Health, Boston, MA*. EH 510: Fundamentals in Human Environmental Exposure Assessment (2021-2023).

Teaching Assistant, *Harvard T.H. Chan School of Public Health, Boston, MA*. RDS 500: Risk Assessment (2023).

Teaching Assistant, *Harvard Graduate School of Education, Cambridge, MA*. EDU S022: Introduction to Statistical Computing and Data Science in Education (2023).

Teaching Assistant, *Harvard College, Cambridge, MA*. ES 6: Introduction to Environmental Science and Engineering (2016).

Mentoring

2024-2025: Anton Roche, Harvard T.H. Chan School of Public Health: research assistant and Master of Science student.

2023-2024: Layla Seaver, Harvard College: senior thesis and capstone project (“Addressing Forever Chemicals: An Algorithm for PFAS Prediction Modeling and Filter Selection for Private Well-Users”). Recipient of the Dean’s Award for Outstanding Engineering Project.

2023: Katherine Yang, Williams College: research assistant in the Summer Program at Harvard in Earth and Environmental Sciences.

GRANTS, FELLOWSHIPS, AND HONORS

National Institute of Environmental Health Sciences T32 trainee (T32ES007069; 2021-2024).

Travel award from the Institute for Quantitative Social Science (2024).

Travel award, *National PFAS Conference* (2024).

Travel Grant Award, *International Society of Environmental Epidemiology - North America* (2023).

Runner-up, ArcGIS StoryMaps Competition (Humanitarian and Social Justice category). *Esri* (2022).

Skaff Family Environmental Graduate Fellowship, *Harvard University* (2021).

Pforzheimer Fellow, *Harvard T.H. Chan School of Public Health* (tuition, stipend, federal work study - 2019-2021 [approx. \$124,000]).

APHA Environment Section Student Travel Scholarship (2019).

ACADEMIC AND PROFESSIONAL AFFILIATIONS

The American Geophysical Union

REFeree ACTIVITIES

Environmental Health, Environment International, Environmental Science & Technology, Environmental Science & Technology Letters, Environmental Science & Technology Water, Environmental Science: Processes & Impacts, Journal of Exposure Science & Environmental Epidemiology, Science of the Total Environment, Scientific Reports

PROGRAMMING AND TECHNICAL SKILLS

Programming and GIS: R, RMD, STATA, ArcGIS

Life cycle assessment and sustainability data management: GaBi, SoFi

Data visualization: *TidyTuesday* portfolio available [here](#)

Other skills: Microsoft Office suite, L^AT_EX and applications, Adobe Photoshop

Languages: English (native), Spanish (intermediate)