

Jahred Liddie, PhD

jliddie@g.harvard.edu [Website](#) [Github](#) [LinkedIn](#)

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

EDUCATION

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| 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

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| 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> | Feb. 2025 - current Cambridge, MA |
| <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 | |
| Environmental Health and Engineering, Inc. <i>Part-time/Short-term Consultant</i> | Oct. 2023 - Nov. 2023 Newton, MA |
| <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 | |
| Silent Spring Institute <i>Summer Research Fellow</i> | Apr. 2020 - Dec. 2020 Newton, MA |
| <ul style="list-style-type: none">Scraped, analyzed, and graphed time-series well water data on PFAS to assess historical exposuresGathered, analyzed, and presented associations between sociodemographic factors and unregulated drinking water contaminants | |
| Sphera (formerly thinkstep) <i>Sustainability Consultant</i> | 2016-2019 Boston, MA |
| <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 | |
| The Clorox Company <i>Product Safety Intern</i> | 2016 Pleasanton, CA |

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| Harvard University | 2015-2016 |
| <i>Research Assistant</i> | Cambridge, MA |
| <i>Sunderland Biogeochemistry of Global Contaminants Lab</i> | |
| World Bank | 2015 |
| <i>Water Security Intern</i> | Washington, DC |
| University of Alabama | 2014 |
| <i>Research Assistant</i> | Tuscaloosa, AL |
| <i>Bara Research Group</i> | |

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**, Schaider 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**, Schaider 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**; Schaider 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 Schaider), 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)