LOURDES ANNETTE VERA

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# Research Objective

I take a community-based research approach combining sociological theory, environmental science, and data analytics to inform civic engagement for equitable futures.

# ACADEMIC EMPLOYMENT

2022-Present Department of Sociology & Criminology; Department of Environment & Sustainability

State University of New York at Buffalo, Buffalo, NY

2022 Visiting Assistant Professor, Department of Sociology & Criminology; Department of

Environment & Sustainability, State University of New York at Buffalo, Buffalo, NY

# EDUCATION

2022 PhD, Sociology, Northeastern University, Boston, MA

Dissertation: *Environmental Data Justice in Action: Civically Valid Air Monitoring Near Oil and Gas Extraction in the Eagle Ford Shale Play*

Concentrations: Environmental Health; Science, Knowledge, and Technology

2022 Graduate Certificate, Data Analytics, Northeastern University, Boston, MA

2017 MA, Sociology, Northeastern University, Boston, MA

2014 MA Teaching Earth Science, CUNY Brooklyn College, Brooklyn NY

2012 BA Urban Studies, Barnard College at Columbia University, New York, NY Concentration: Environmental Science

Minors: Environmental Science (in addition to concentration); Anthropology

# PUBLICATIONS

\* *Denotes Student Author at Time of Publication*

+ *Denotes Non-Academic Author*

# Manuscripts in Progress

In Progress **Lourdes Vera** and Isabella Pacenza+ “Environmental Data Resistance against State-Sponsored Gaslighting in a Time of Crisis” Accepted To American Sociological Association Annual Meeting 2025 Environmental Sociology Section Panel On State Violence. Planned submission to *Environmental Sociology*

In Progress **Lourdes Vera**, Eric Nost, Tim Schütz\* "The Embodiment of Environmental Data" Presented at Conservation Data Justice Workshop, Universitat Autónoma de Barcelona. Submitting to *Big Data & Society*.

In Progress Jessica Varner and **Lourdes Vera**. Introduction to Thematic Collection. Between

Consent and Refusal: Building Environmental Right-to-Know in Feminist and Community-Based Environmental Data Justice Futures Now” S*cience, Technology, and Human Values.*.

Revision Submitted Jenny E. Goldstein, Daniel Brockington, Chris Sandbrook, Patrick Meyfroidt, Tobias Kuemmerle, Jonas Geldmann, Marion Pfeifer, **Lourdes Vera**, Rose C. Pritchard, Nina Bhola, Ruth DeFries, Lauren Drakopulos, Laura A Sauls, Anwesha Dutta, Freya A.V. St John, Kate Schreckenberg, Neema Pathak Broome, Joycelyn Longdon,\* Gary R Watmough “More effective Area-Based Conservation requires bridging diverse perspectives” *Nature Biodiversity Reviews*

Accepted Alejandro Rojas\*, **Lourdes Vera**, Eric Nost, Steve Hansen,+ Cole Alder,+ Sara

Wylie. “Infrastructuring Data Publics with Environmental Enforcement Watch”

*Science, Technology, and Human Values* Thematic collection on Environmental Data

Justice.

# Peer-Reviewed Articles

2025 Nicholas R. Record, Benjamin Tupper, Kenny Douyon, Lauren Drakopulos, Johnathan Evanilla, and **Lourdes Vera**, “Harmful algae forecasting through an ocean data justice lens” *Environmental Science & Technology.*

2024 Margaret O’Brien, Ruth Duerr, Riley Taitingfong, Andrew Martinez, **Lourdes Vera**, Erin Antognoli, Robert R. Downs, Talya ten Brink, Lydia Jennings, Maui Hudson, Stephanie Russo Carroll, Dominique David-Chavez, Nicole B. Halmai, Pier Luigi Buttigieg (2024). “Earth Science Data Repositories: Implementing the CARE Principles” *Data Science Journal*.

2024 Vivian Underhill, Gary Allison, Holden Huntzinger,\* Cole Mason,\* Abigail Noreck,\* Emi Suyama,\* **Lourdes Vera**, Sara Wylie (2024). “Increases in Trade Secret Claims in Hydraulic Fracturing Fluids and their Potential Implications for Environmental Health and Water Quality” *Journal of Environmental Management*.

2023 **Lourdes Vera** “Repairing the Anthropocene: Toward Civic Validity for Environmental Data

Justice" *NatureCulture*.

2022 Underhill, Vivian, Angelica Fiuza\*, Gary Allison, Grace Poudrier,\* Sarah Lerman-Sinkoff,\* **Lourdes Vera**, and Sara Wylie. "Outcomes of the Halliburton Loophole: Chemicals Regulated by the Safe Drinking Water Act in US Fracking Disclosures, 2014-2021." *Environmental Pollution*.

2021 Record, Nick, and **Lourdes Vera**. "Uncovering Big Data Bias in Sustainability Science." *Spire:*

*The Maine Journal of Conservation and Sustainability*.

2020 **Lourdes Vera**, Garance Malivel, Drew Michanowicz, Choong-Min Kang, and Sara Wylie. "Photopaper as a Tool for Community-level Monitoring of Industrially Produced Hydrogen Sulfide and Corrosion." Air Sensors International Conference Special Issue. *Atmospheric Environment: X* 5:100049

2019 **Lourdes Vera**, Dawn Walker,\* M Murphy, Becky Mansfield, Ladan Mohamed Siad,\* Jessica

Ogden, and the Environmental and Data Governance Initiative. "When Data Justice and

Environmental Justice Meet: Formulating a Response to Extractive Logic through Environmental Data Justice." Data Justice Special Issue. *Information, Communication, and Society* 22(7): 1012-1028.

2018 **Lourdes Vera,** Lindsey Dillon, Sara Wylie, Jennifer Liss Ohayon, Aaron Lemelin, Phil Brown, Christopher Sellers, Dawn Walker, and The Environmental Data and Governance Initiative. "Data Resistance: A Social Movement Organizational Autoethnography of the Environmental Data and Governance Initiative." Protesting Trump Special Issue. *Mobilization: An International Quarterly* 23(4): 511-529.

2017 Wylie, Sara, Elisabeth Wilder, **Lourdes Vera**, Deborah Thomas, Megan McLaughlin. “Materializing Exposure: Developing Methods for Visualizing Environmental Hazards of Unconventional Energy.” *Engaging Science, Technology, and Society* no. 3: 426-463.

# Peer-Reviewed Book Chapters

2025 **Lourdes Vera**, Kelsey Breseman,+ Cole Alder,+ the Environmental Data & Governance Initiative. “From the Environmental Right to Know to Environmental Data Justice” *SAGE Handbook on Data & Society*. Peer-reviewed.

# Other Academic Publications

2025 Nost E, Gehrke G, **Lourdes Vera**, Hansen S. [Why the Environmental Data & Governance](https://www.cell.com/patterns/fulltext/S2666-3899(24)00323-4)

[Initiative is archiving public environmental data](https://www.cell.com/patterns/fulltext/S2666-3899(24)00323-4). *Patterns* (N Y). 2025 Jan 10;6(1):101151. doi: 10.1016/j.patter.2024.101151. PMID: 39896262; PMCID: PMC11783871.

2024 **Lourdes Vera**. "Access Rules: Freeing Data from Big Tech for a Better Future” by Thomas

Ramge and Viktor Mayer-Schönberger. Book Review. *Contemporary Sociology*

2021 **Lourdes Vera.** “Hacked Transmissions: Technology and Connective Activism in Italy" Book

Review. *Mobilization.*

2020 **Lourdes Vera**. “Imagining Alternative Politics of Experimentation and Resistance with Michelle Murphy’s *The Economization of Life.*”Review of T*he Economization of Life* by M. Murphy. Ludwick Fleck Prize Book Forum. Somatosphere: Science, Medicine, and Anthropology. [www.somatosphere.net](http://www.somatosphere.net/)

2016 **Lourdes Vera**. "Community Health Impacts from Oil and Gas Development in Texas: The Perspective of Sharon Wilson." SSEHRI Special Issue. New Solutions: A Journal of Environmental and Occupational Health Policy 26(3): 496-507. 12 then

# Reports

2022 Underhill, Vivian, **Lourdes Vera**, Eric Nost, Kelly Wilkins, Madison Sonnenday, and Sara Wylie. October. [“50 Years After the Clean Water Act, Toxic Chemicals It Regulates Are Still Used in Fracking](https://envirodatagov.org/publication/50-years-after-the-clean-water-act-toxic-chemicals-it-regulates-are-still-used-in-fracking/).”

2022 Eric Nost, Sara Wylie, Olivia Chang, Olin College PInT, Kelsey Breseman, Steve Hansen, **Lourdes Vera**, and EDGI. [“How Gaps and Disparities in EPA Data Undermine Climate and Environmental Justice Screening Tools](https://envirodatagov.org/publication/how-gaps-and-disparities-in-epa-data-undermine-climate-and-environmental-justice-screening-tools/).” September. *Environmental Data and Governance Initiative*.

2017 Villa, Priscilla, **Lourdes Vera**, Sara Wylie, and Sharon Wilson. “Hazards in the Air: Relating reported illnesses to air pollutants detected near oil and gas operations in and around Karnes County, Texas.” Earthworks’ Oil Gas Accountability Project.

Spanish Version: Villa, Priscilla, **Lourdes Vera**, Sara Wylie, and Sharon Wilson. “Peligros en el Aire: Relacionando enfermedades reportadas a los contaminantes del aire detectados cerca de las operaciones de petróleo y gas dentro y alrededor del Condado de Karnes, Texas.” Earthworks’ Oil Gas Accountability Project.

# Research-Based Public Comments

2024 Varner, J., **Vera, L**., Kagle, C., Monnier, M., & Environmental Data and Governance Initiative. (2024, October 23). Comment Submitted To U.S. Environmental Protection Agency For the Proposed High-Priority Substance Designations under the Toxic Substances Control Act

(TSCA); Vinyl Chloride. (Docket ID EPA-HQ-OPPT-2018-0448-0591)

2023 **Lourdes Vera**. Public Comment to New York State Department of Transportation on the Kensington Expressway Plan. November.

2023 **Lourdes Vera**. Public Comment to Town of Lockport Industrial Development Association on

SRI Plastics Inc. subsidy application. July.

2018 Becky Mansfield, Gretchen Gehrke, Andrea Hindman, Leif Fredrickson, **Lourdes Vera**, Jess Ogden, Dawn Walker, Environmental Data & Governance Initiative (EDGI). (August 16). “EPA

Transparency In Science Epa’s Proposed Rule Uses The Idea Of Transparency To Reduce Real Transparency And Delay Protecting Environmental And Public Health” Proposed Rule:

Strengthening Transparency In Regulatory Science (Docket No. Epa-Hq-Oa-2018-0259).

# Blog Posts, Magazine and Newsletter Articles

2024 Explore Our Alternative Tools for Contextualizing Hard-to-Access EPA Data. Nost, E., **Lourdes Vera**, S. Hansen, K. Breseman, S. Wylie, and EDGI.

2023 Underhill, Vivian R. and **Lourdes Vera**. 2023. [“Companies That Frack for Oil and Gas Can Keep a Lot of Information Secret – but What They Disclose Shows Widespread Use of](http://theconversation.com/companies-that-frack-for-oil-and-gas-can-keep-a-lot-of-information-secret-but-what-they-disclose-shows-widespread-use-of-hazardous-chemicals-193915)

[Hazardous Chemicals](http://theconversation.com/companies-that-frack-for-oil-and-gas-can-keep-a-lot-of-information-secret-but-what-they-disclose-shows-widespread-use-of-hazardous-chemicals-193915).” The Conversation. April. **15,176 Reads as of May 2024**

2022 **Lourdes Vera**, “How Mentorship Can Challenge Legacies of Oppression in Academia,” Newsletter of the American Sociological Association’s Section on Environmental Sociology, Summer.

2020Nost, Eric, Kelsey Breseman, Steve Hansen, Leslie Alanis, Megan Raisle, **Lourdes Vera**, Maalvika Bhat, Sara Wylie, Sung-Gheel (Gil) Jang, and EDGI. [“More Permission to Pollute: The Decline of EPA Enforcement and Industry Compliance during COVID](https://envirodatagov.org/more-permission-to-pollute-the-decline-of-epa-enforcement-and-industry-compliance-during-covid/). " EDGI.

2020 Breseman, Kelsey, Eric Nost, Gretchen Gehrke, Chris Sellers, Marcy Beck, **Lourdes Vera**, EDGI. [“EPA’s COVID-19 Leniency is a Free Pass to Pollute](https://envirodatagov.org/epas-covid-19-leniency-is-a-free-pass-to-pollute/).” EDGI.

2020 **Vera, Lourdes**. “Bracing for the ‘Double Dose’: Experiencing COVID-19 while living near oil and gas development.” *Shado Magazine*.

2020 Nost, Eric, Sara Wylie, Kelsey Breseman, Gretchen Gehrke, Chris Sellers, **Lourdes Vera**, Lauren Richter, Becky Mansfield, and the Environmental Data and Governance Initiative (EDGI). A Green New Deal for Environmental Data.” A People’s Green New Deal, *Science for the People* Vol. 23 No. 2

# Manuals and Digital Tools

2022 Nost, E., Raisle, M., Hansen, S., Breseman, K., **Vera, L.**, Wylie, S. and the Environmental Data and Governance Initiative. Owning Up: A Tool to Measure US Carbon Emissions by Corporations.

2021 Nost, E., Raisle, M., Hansen, S., Breseman, K., **Vera, L.,** Wylie, S. and the Environmental Data and Governance Initiative. What’s in my Watershed? A Tool for Community Analysis of Water Pollution and Polluters.

# PRESENTATIONS

*\* Denotes Keynote*

# Invited Talks and Closed Panels

2024 “Dismantling Racism in Public Health Practice while working towards Environmental Justice,” Panel hosted by Science, Community Action Network (SciCAN), American Public Health Association annual meeting. Minneapolis, Minnesota.

2024 “Integrating Feminist Ethics of Care and Indigenous Data Sovereignty into Environmental Science” Penn State's Huck Institutes of Life Sciences Ecology Seminars. State College, PA.

2024 "Seeking Environmental Data Justice through Feminist Ethics of Care." UC Santa Barbara Center for Ecological Analysis and Synthesis Spring 2024 Seminar Series on Diversity, Equity, Inclusion & Justice in Environmental Data Science. May 16th.

2024 "At the Crossroads of Data, Environmental, and Climate Justice" Symposium. Columbia University Center for Science and Society. New York, NY. April 10th - 12th.

2023 "Community Empowerment and Environmental Justice" Tilburg University School of

Humanities and Digital Sciences and School of Law. Tilburg, The Netherlands. December.

2023 "The shapes of things: revising geometries and acknowledging forms of/in/through territories, terrains, and technologies" the Society for Social Studies of Science (4S). December.

2023 Fall 2023 Seminar Series in Data Science & Analytics, SUNY Buffalo State University

2023\* "From Air Monitoring to Environmental Data Justice" at UC Santa Barbara Environmental Data Science Summit. February 7. Santa Barbara, CA.

2023 "Environmental Justice and the Right to Know" at Earth Science Information Partners Bi-Annual Meeting. Virtual.

2023 "Building Data Infrastructures to Track Environmental Enforcement with Care." The Society for Social Studies of Science (4S) Non-presenters: Alex Alvarado Rojas, Eric Nost, Steve Hansen. December.

2023 Women's Environmental Leadership Summit Panelist for session on "Advocacy & Science:

Integrating Environmental Justice into Community Based Science." Smithsonian Anacostia Community Museum. Washington, DC. September.

2022 “Civic Air Monitoring and Environmental Data Justice” Toxic Justice? Epistemic Tension and the Neglected Otherwise in Fenceline Communities. University of Oxford, School of Geography. November.

2022 “Envisioning Environmental Data Justice through Air Monitoring in the Eagle Ford Shale Play of Texas” Risques, crises et sciences humaines et sociales : vers des observatoires inclusifs santé-environnement-travail/ Risks, crises and social sciences: towards inclusive health-environment-occupational observatories. October 24th–26th Centre de colloques du Campus Condorcet, Paris.

2020 “Storytelling for Advocacy: Tools for Uncovering Scientific Meaning and Purpose” with Leslie Alanis. Reclaiming STEM.

2020 “Environmental Data Justice: Developing Civically Valid Air Monitoring Methods with Oil and Gas Fenceline Communities.” Humanities Institute Science Studies Research Workshop, State University of New York at Buffalo. October 29.

2020 Panelist at Planet Texas 2050 Resilience Roundtable. The University of Texas at Austin. Virtual. July 21.

2020 “Race & Equity Discussion Group: Environmental Data Justice with Lourdes Vera.” The Switzer Foundation. Virtual. June 15.

2018 “Building a Sentinel Community in Response to Hazards from Oil and Gas Development in

Karnes, Texas,” Human Challenges in Extreme Environments. Hosted by iGlobes: Interdisciplinary and Global Environmental Studies and the Udall Center for Studies in Public Policy. The University of Arizona. November 18.

2018 “Towards an Environmental Data Justice Framework.” With Dawn Walker and the Environmental Data and Governance Initiative. Data Justice Conference, Data Justice Lab, Cardiff University. May 21-22.

2017 “Using Indexical Design and Counter-Mapping to Collaboratively Ground the Hazards of Oil and Gas Extraction.” Panel on Tensions and Challenges for Environmental Citizen Science II: Expertise and the State. Society for Social Studies of Science Annual Meeting, Boston, MA. August 30 – September 2.

2016 “D.I.Y Visualization of Exposure to Hydrogen Sulfide” Indexical Design Symposium,

Northeastern University. June 25.

2016 “Visualizing Thermal Plumes with Thermal Fishing Bobs” Civic Art Lightning Talk, Technology, Design & Social Impact Conference, Boston Civic Media Consortium, Microsoft NERD at MIT. June 10.

# Conference Presentations

2024 Robert R Downs, Lydia Jennings, Ruth Duerr, Talya Tenbrink, Riley Taitingfong, Stephanie

Carroll, **Lourdes Vera**, Pier Luigi Buttigieg. Poster presentation at the American Geophysical

Union (AGU) titled "Co-Design of Recommendations for Open Data Repositories to Adopt the CARE Principles"

2022 **Lourdes Vera** “An Ecosystem of Air Monitoring with [K]/[C]ARE.” Asociación Latinoamericana de Estudios Sociales de la Ciencia y la Tecnología (ESOCITE) and the Society for Social Studies of Science (4S). December 8.

2021 “Developing Publicly Accessible Data Analytic Tools to Understand EPA’s COVID Policy on Environmental Enforcement” (non-presenter). With Megan Raisle, Eric Nost, Sara Wylie, Kelsey Breseman, and the Environmental Data and Governance Initiative. GH024: Science to Action: Understanding and Addressing the Community Health Disparities Resulting from Air Pollution and Other Environmental Risk Factors, American Geophysical Union (AGU) conference, Virtual. December 16th.

2020 **Lourdes Vera** “Engaging Environmental Data Justice to Conduct Civically Valid Air Monitoring with Oil & Gas Fenceline Communities.” Panel on Ways of Knowing the Digital Anthropocene (Sensing and Seeing), Society for the Social Studies of Science Annual Meeting, Virtual, Prague. August 18-21.

2019 **Lourdes Vera** “Responding to the Violent and Extractive Logic of Data Mining with Environmental Data Justice.” Society for the Social Studies of Science Annual Meeting, New Orleans, LA. September 4-7.

2019 “Citizen Science as/in Public Works: How Validating a Low-Cost Air Monitoring Tool in a Sewage Treatment Plant Transformed its Metrics and Impact” (non-presenter). With Garance Malivel and Sara Wylie. Society for the Social Studies of Science Annual Meeting, New Orleans, LA. September 4-7.

2019 “When Data Justice and Environmental Justice Meet: Formulating a Response to Extractive

Logic through Environmental Data Justice.” With Dawn Walker, M Murphy, Becky Mansfield, Ladan Mohamed Siad, Jessica Ogden, and the Environmental Data and Governance Initiative. American Sociological Association Annual Meeting, New York City, NY. August 10-13.

2018 “Photographic Paper: an Integrated Measure for Community Study of Industrially Produced Corrosive Gases?” Poster Session at Air Sensors International Conference, UC Davis. September 12-14.

# Guest Lectures and University Talks

2025 Harvard HSPH Environmental Justice Graduate student Club

2025 Cornell Undergraduate course in information science

2024 Tufts University Graduate course in data science

2024 Guest lecture on "Redlining and Environmental Justice" in Sarah Ford's SOC211 class

2024 "Environmental Environment Watch" University at Buffalo Women In Science and Engineering (WiSE) High School Engagement Program.

2023 “Civic Science for Environmental Data Justice,” Civic/Community Engaged Research Initiatives at UB. Panel. SUNY University at Buffalo. April 13.

2023 “How a Twitter API Paywall Limits Researchers’ Understanding of Critical Social Movements,” Elon Musk is Ruining My Research: The Compounding Impact of Change in Corporate Resources for Research. Panel. SUNY University at Buffalo Digital Scholarship Studio and Network. April 10.

2022 “Environmental Data Justice and AI/ML.” AI/ML & Environmental Justice Webinar. Social Science Environmental Health Research Institute at Northeastern University. May 18.

2019 Invited Participant. Graduate Student Fellowships Panel. College of Social Sciences and Humanities, Northeastern University.

# Events and Workshops Organized

2024 Organizer. "Conservation Data Justice" Workshop in Barcelona, Spain. May 2024.

2023 Organizer and Presenter. How can Scholars at UB Inform and Build Data Infrastructures for Justice?: A Roundtable led by Lourdes Vera and Kenny Joseph. UB Digital Scholarship Studio and Network. November.

2023 Organizer. UB Mini-Workshop on Tech Equity and Data Justice. UB Department of Computer Science, co-organized with Kenny Joseph. October.

2023 Internal workshop for United Nations Environmental Programme on Protected Planet

Database. January.

2022 Organizer. "Conservation Prioritisation Workshop" funded through the Advanced European Research Commission Award (PI: Daniel Brockington) in Northumberland, UK. June 14-16.

2022 “Unpacking our Data with an Environmental Data Justice Framework.” Bigelow Laboratory for Ocean Sciences. May 5.

2018 Organizer and Moderator. “Perspectives on Research as Activism” Intellectual Events Committee Panel, Department of Sociology and Anthropology, Northeastern University

2017 Organizer and Moderator. “The Dissertation from Pre-Proposal to Post-Defense” Professional Development Workshop, Department of Sociology and Anthropology, Northeastern University.

2016 Organizer and Presenter. “D.I.Y. Visualization of Toxic Exposures” Student Panel on Summer Research, Department of Sociology and Anthropology, Northeastern University.

# Event Participation

2024 Discussant. “Landed Solidarity: Making Just Futures,” Hosted by UB Humanities Institute and Department of Indigenous Studies. March 6-7.

2023 Presider. "Creative Interventions in Environmental Sociology Theory" American Sociological Association Annual Meeting. August.

2019 Discussant. “EJxYouth Summit,” hosted by GreenRoots’ Environmental Chelsea Organizers and the Environmental Data & Governance Initiative Environmental Data Justice working group.

2019 Discussant for Author Meets Critics: Fleck Prize for The Economization of Life by Michelle Murphy. Society for Social Studies of Science Annual Meeting, Boston, MA. August 30 – September 2.

2016 Santo Domingo Housing and Health Workshop hosted by T.H. Chan Harvard School of Public Health and JPB Foundation. Santo Domingo Pueblo, NM. May 22-24.

# Community Presentations

2024 Town Hall on Lead Contamination in Buffalo New York, Delavan Grider Community Center with Open Buffalo, The Massachusetts Avenue Project, and Citizen Science Community Resources.

2023 What is Environmental Justice? Unitarian Universalist Church of East Aurora. East Aurora, NY.

July.

# Media Coverage and Interviews

2025 [Inside the desperate rush to save decades of US scientific data from deletion](https://www.bbc.com/future/article/20250422-usa-scientists-race-to-save-climate-data-before-its-deleted-by-the-trump-administration) / [La desesperada carrera por salvar décadas de datos sobre el cambio climático y el clima extremo que están siendo borrados por el gobierno de Trump - BBC News Mundo](https://www.bbc.com/mundo/articles/ce82j96lnn3o) British Broadcasting Corporation (BBC)

2025 [As Data Goes Off-Line Under Trump, Environmental Researchers Are Uploading Backups](https://www.insidehighered.com/news/faculty-issues/research/2025/01/29/data-goes-line-under-trump-researchers-upload-backups)

Inside higher ed

2025 [“Face Aux Purges d’Elon Musk, Les Scientifiques Américains Se Mettent «Debout Pour Les Sciences](https://www.rfi.fr/fr/science/20250307-face-aux-purges-d-elon-musk-les-scientifiques-am%C3%A9ricains-se-mettent-debout-pour-les-sciences)»,” RFI, March 7, 2025, Radio France

2025 [“Trump Attacks Climate Science and Spreads Fear among Scientists](https://www.lemonde.fr/en/environment/article/2025/02/18/trump-attacks-climate-science-and-spreads-fear-among-scientists_6738302_114.html),” February 18, 2025; Le Monde

2024 [“This is a much bigger infrastructural problem': High levels of lead found in yards on Buffalo's East Side](https://www.wkbw.com/news/local-news/buffalo/this-is-a-much-bigger-infrastructural-problem-high-levels-of-lead-found-in-eastside-yards)” Channel 7 News.

2023 [“Congress is allowing millions of Americans to drink toxic chemicals because it won’t regulate fracking: study](https://fortune.com/2023/04/03/how-dangerous-is-fracking-drinking-water-toxic-chemicals-study-federal-regulation/)” Fortune

2023 Jonathan D. Epstein. [“Lockport Plastics Plant Proposal Faces Opposition at Hearing](https://buffalonews.com/business/local/plastics-plant-proposal-faces-heat-from-opponents-at-lockport-ida-hearing/article_d67a47f0-218d-11ee-b01d-fbf0651d3526.html).” July 14.

2023 Dale J. Shoemaker. [“Company Seeking Subsidies Circulates Fake Study](https://www.investigativepost.org/2023/07/13/company-seeking-subsidies-circulates-fake-study).” Investigative Post.

2020 Longdon, Joycelyn. "Environmental Data Justice." The Lancet Planetary Health 4, no. 11 (2020): e510-e511.

2020 Russell, Adrienne, and Matthew Tegelberg. "Beyond the boundaries of science: Resistance to misinformation by scientist citizens." Journalism 21, no. 3 (2020): 327-344.

2018 [“Residentes Del Sur de Texas Afectados Por Gases de Plantas de Petróleo y Gas.](https://www.telemundo.com/noticias/2018/02/01/residentes-del-sur-de-texas-afectados-por-gases-de-plantas-de-petroleo-y-gas-tmvo8588181)” Noticias Telemundo. February 12, 2018.

2017 Cribb, Robert, Patti Sonntag, P.W. Elliott, and Elizabeth McSheffrey. [“That Rotten Stench in the Air? It’s the Smell of Deadly Gas and Secrecy](https://www.thestar.com/news/canada/2017/10/01/that-rotten-stench-in-the-air-its-the-smell-of-deadly-gas-and-secrecy.html).” The Toronto Star. October 1, 2017.

[“Is Saskatchewan Ignoring the Potentially Deadly Gas from Oil Wells?](https://globalnews.ca/news/3781309/saskatchewan-deadly-gas-government-oversight)” Global News. October 2.

# GRANTS AND AWARDS

# Grants Awarded

2024 PI. Baldy Center for Law and Social Policy Grant, University at Buffalo, $4,750 (declined)

2021 Co-PI. Code for Science and Society Event Grant. Co-authored with the Environmental Data and Governance Initiative, $20,000

2020 David and Lucile Packard Foundation Grant. Co-authored with the Environmental Data and Governance Initiative, $450,000

2020 CO-PI Northeastern University Department of Sociology Summer Research Grant, $2,000

2020 David and Lucile Packard Foundation Grant. Co-authored with the Environmental Data and Governance Initiative, $450,000

2019 Research Development Initiative Grant. Under Co-PI, Sara Wylie. Northeastern University College of Social Sciences and Humanities, $5,000

2012 AmeriCorps Grantee, $5,000

# Applied

2025 PI Robert Wood Johnson Foundation, Community based lead sampling. $50,000

2025 Co-PI Community Foundation of Greater Buffalo Lead Safe Task Force $7,500

2025 PI Sloan Foundation LOI, Blue hydrogen life cycles, $1,000,000 (unfunded)

2024, 2025 UB Community Health Equity Research Institute (CHERI) LOI, Community based lead sampling, $200,000 (First round unfunded. Funding currently on hold )

2024 Environmental justice data fund “Access for Impact: Community-Based Cumulative Impacts Analyses” (unfunded)

2024 Co-PI. Civic Innovation Challenge National Science Foundation NSF 24-354 ($100,000) in partnership with David Rahn, University of Kansas and Beto Lugo Martinez, Rise4EJ. Submitted April. (unfunded)

2023 PI. ACLS Digital Justice Development Grant ($100,000) in collaboration with the Environmental

Data and Governance Initiative, submitted December (unfunded)

2023 Environmental justice Data Fund

# Fellowships and Awards

2024 Drescher Award, SUNY/UUP, University at Buffalo ‘Writing for Sociology’

2022 Northeastern University Huntington 100 Inductee.

2021 Robert Boguslaw Award for Technology and Humanism, American Sociological Association Environmental Sociology Section.

2020 Experiential PhD Fellowship, Northeastern University College of Social Sciences and Humanities. Sponsoring Organization: Earthworks’ Oil and Gas Accountability Project, $13,250.

2020 Outstanding Research Paper Award, Northeastern University Department of Sociology and Anthropology.

2019 Outstanding Research Paper Award, Northeastern University Department of Sociology and Anthropology.

2019 Robert Patricia Switzer Foundation Environmental Fellow, $15,000.

2018 Outstanding Contributions to Public Sociology Award, Northeastern University Department of Sociology and Anthropology.

2017 Distinguished Contributions to Making and Doing: "Environmental Data and Governance Initiative (EDGI): Engaged STS Responding to the U.S. Administration" Society for Social Studies of Science.

2017 Distinguished Contributions to Making and Doing, Society for Social Studies of Science.

2016 National Institute of Environmental Health Sciences (NIEHS) T-32 Training Program (3 years).

2015 Northeastern University Distinguished Dean’s Fellowship (5 years)

2012 New York City Teaching Fellows Cohort 23

# TEACHING

# Courses Designed

SOC/EVS 300-level Rhythms of Algorithms

SOC/EVS 300-level Prison Ecology

# Courses Taught

**SUNY University at Buffalo**

Fall 2023 SOC 568 Contemporary Sociological Theory

Fall 2022, Spring 2023, Fall 2023, Spring 2024 SOC/EVS349 Environment and Society

Fall 2022, Spring 2024 SOC341 Classical Sociological Theory

**Northeastern University**

Fall 2020 Computers and Society (Teaching Assistant)

# Graduate Student Advising

Current Dissertation Committee Member for Anupriya Pandey, SUNY University at Buffalo Department of Sociology

2024 Dissertation Committee Member for Nicole Capozziello, “It's The Roots That Need Water” SUNY University at Buffalo Department of Social Work

2023 MA Thesis Committee Member for Stephen Brown, SUNY University at Buffalo Department of Sociology

# PROFESSIONAL SERVICE

**University at Buffalo**

2023- present Member of the Digital Scholarship Studio and Network

2022 - present Department of Sociology Graduate Committee

2022 - present Member of Critical Ecologies Collaborative

2022 - 2024 Faculty Advisor for Medical Students for Sustainability

# Service to the Profession

2022 - Advisory Committee Member for Conservation Data Justice (CONDJUST), Universitat Autónoma de Barcelona, European Research Council.

2020-2022 Elected Graduate Student Representative for the Section on Environmental Sociology, American Sociological Association

# The Environmental Data & Governance Initiative

2020- present Environmental Enforcement Watch project co-coordinator

2018-present Coordinating/Advisory Committee Member

2018-2020 Environmental Data Justice working group coordinator

2016-2018 Webmaster and Communications Coordinator

2016-present Charter member

# Northeastern University Department of Sociology and Anthropology

2018 - 2019 Committee on Graduate Study (Elected Graduate Representative)

2016-2018 Intellectual Events Committee

# Reviewer

The Society for the Study of Social Problems; Information, Communication, and Society; International

Journal of Communication; Catalyst; Science Communication; Routledge; Big Data & Society; Environmental Justice; Nature Machine Intelligence

# Professional development

2024 UB human resources professional development: Leverage Your DiSC Communication Style Parts one and two, Time Management and Prioritization, Running effective meetings; Discover Your Strengths

2024 SUNY Catalyzing New York Climate Solutions Community of Practice

2023 New Academy Fellow, SUNY University at Buffalo (Research Track)

# Professional Associations

Society for Social Studies of Science (4S)

American Association of Geographers (AAG)

American Sociological Association (ASA)

American Studies Association (ASA)

# Community Engagement & Volunteering

2025 to present Open Buffalo eco collective

2023 - present Board Member. Hostel Buffalo-Niagara.

2023 - present Board Member. Community Canvases.

2023 - present Member. Clean Air Coalition of Western New York.

2021 - present Co-Lead. Buffalo Community Fridge Network.

2022, 2024 Fellowship Application Evaluator. Switzer Foundation.

2019 Volunteer. “Chemicals in the Creek” Data visualization performance and collaboration between MIT Media Lab, Northeastern University, and Chelsea GreenRoots. April 22.

2017 Volunteer. “Enacting Environmental Data Justice: A 4S Pre-Meeting Event” hosted by the Environmental Data & Governance Initiative. Northeastern University.

2017 Volunteer and co-organizer. Data Rescue Boston at Northeastern University, hosted by the Environmental Data and Governance Initiative and DataRefuge.

2017 Volunteer. Data Rescue Boston at MIT, hosted by the Environmental Data and Governance Initiative and DataRefuge.

# OTHER PROFESSIONAL EXPERIENCE

2012-2015 9th-12th Grade Science Teacher Brooklyn Theatre Arts High School, Brooklyn, NY. Earth Science, Chemistry, AP Environmental Science.

# SKILLS & SPECIAL INTERESTS

R and RStudio

ESRI ArcGIS Pro, ArcGIS StoryMap, and ArcGIS Online

QGIS

Adobe Creative Suite

Spanish (conversational, proficient in reading, basic writing)

Python

WordPress

NVivo and Dedoose

Sonic Pi

HTML5 & CSS

SPSS

SQL