

SARA HUGHES

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EDUCATION

PhD, University of California, Santa Barbara, 2011
Environmental Science and Management

MSc, BSc, Michigan State University, 2006, 2004
Fisheries and Wildlife

ACADEMIC APPOINTMENTS

Associate Professor
University of Michigan
School for Environment and Sustainability
2022-present

Associate Director
Cooperative Institute for Great Lakes Research
University of Michigan
2022-present

Assistant Professor
University of Michigan
School for Environment and Sustainability
2019-2022

Assistant Professor
University of Toronto & University of Toronto Mississauga
Department of Political Science
2015-2019

Postdoctoral Fellow
U.S. Environmental Protection Agency
National Research Program on Air, Climate, and Energy
2013-2014

Postdoctoral Fellow
National Center for Atmospheric Research,
Climate Science and Applications Program
2011-2013

EXTERNAL FUNDING

Pending

- Co-PI, NASA Interdisciplinary Research in Earth Science, 2023-2026 (\$1.2 million)
“Supporting environmental justice in Delhi through neighborhood scale air quality simulations, community research, and emission mitigation policy analysis”
- PI, National Science Foundation Dynamics of Integrated Socio-Environmental Systems, 2023-2028 (\$1.6 million)
“Governing green stormwater infrastructure for just and adaptive urban flood management”

Received

- Co-PI, Michigan Sea Grant, 2023-2026 (\$500,000)
“Development of a probabilistic compound flood hazard assessment tool and evaluation of countermeasures for Great Lakes cities”
- Co-PI, National Oceanic and Atmospheric Administration (NOAA), 2022-2027 (\$1.3 million)
“Development of Next Generation Prediction System for Great Lakes Water Levels and Lake Management Decisions”
- PI, Cooperative Institute for Great Lakes Research, 2022-2023 (\$80,000)
“Monitoring and Measuring Resilience in the Great Lakes: An analysis of the region’s science, policy, and funding frameworks”
- Co-PI, Michigan Department of Environment, Great Lakes, and Energy, 2022 (\$366,746)
“Water Infrastructure Regional Planning”
- PI, National Science Foundation, 2021-2024 (\$420,667)
“Feeling the Squeeze: How Financial Stress Shapes Decision-Making and the Resilience of Municipal Drinking Water Systems”
- Co-PI, Canada Social Science and Humanities Research Council (SSHRC) Insight Grant, 2020-2024 (\$270,725)
“The 100 Resilient Cities Initiative: A Natural Experiment in the Politics of Creating a Sustainable World”
- PI, Canada Social Science and Humanities Research Council (SSHRC) Insight Development Grant, 2018-2020 (\$54,292)
“Learning from the Flint Water Crisis: Measuring and Mapping Urban Water Stress”
- Co-PI, University of Minnesota MNDrive, 2014-2016 (\$422,972)
“Waste Not: Closing the Loop on Organic Waste”

INTERNAL FUNDING

- PI, University of Michigan Poverty Solutions, 2022-2023 (\$20,000)
“Plumbing Poverty as a Social Determinant of Health: Measuring the Effects of Public Investment in Residential Plumbing Repairs”
- PI, SEAS Theme Funds, 2022-2023 (\$80,000) “Developing an Interdisciplinary Approach to Studying Urban Stream Water Quality”
- PI, University of Michigan Poverty Solutions, 2020-2021 (\$20,000)
“Understanding How Poverty Affects Water Affordability in Detroit”
- PI, University of Michigan Graham Sustainability Institute, 2020-2021 (\$10,000)
“Supporting Justice in Urban Climate Change Adaptation”
- PI, University of Toronto Mississauga Research and Scholarly Activity Fund Award, 2018-2019 (\$8,964)
“Accumulating Injustice: Tracing the multiple causes of the Flint water crisis”
- PI, University of Toronto Connaught New Researcher Award, 2015-2017 (\$10,000)

“The Politics of Sustainable Cities: Case Studies of Institutional Change”
PI, University of Toronto Mississauga Research and Scholarly Activity Fund Award, 2015-2016 (\$7,900)
“The Politics of Sustainable Cities: Case Studies of Institutional Change”

PUBLICATIONS

h-index: 27 i10-index: 42

Books

2. Hughes, Sara. 2019. *Repowering Cities: Governing Climate Change Mitigation in New York City, Los Angeles, and Toronto*. Cornell University Press.
 - Reviewed in *Local Government Studies, Perspectives on Politics, and Global Environmental Politics*
1. Hughes, Sara, Eric Chu, and Susan Mason (Eds.). 2018. *Climate Change in Cities: Innovations in Multilevel Governance*. Springer.
 - Reviewed in *Urban Research and Practice*

Edited Special Issues

2. Porse, Erik, Chingwen Cheng, Sara Hughes, and Claire Napawan. 2022. “Urban Water Management, Planning, and Design: Links, Opportunities, and Challenges,” *Frontiers in Water*, 4: 1010318
1. Hughes, Sara and Andrea Sarzynski. 2015. “Building Capacity for Urban Climate Change Adaptation,” *Urban Climate* Vol. 14.

Peer-Reviewed Articles

* Indicates student advisees

Under Review or Revision

- “Infrastructure Funding and Inequality: Applying a justice lens to the allocation of Drinking Water State Revolving Funds,” *Under Review*
- “The Policy Failures of Rental Housing: Plumbing poverty in Detroit, Michigan,” *Under Revision*
- “Whose Water Crisis? How policy responses to acute environmental change widen inequality,” *Under Review*
- “State Policy and Local Resilience: Evaluating State Policies for Flood Resilience in the Great Lakes Region of the United States,” *Under Review*
- “Collaboration for Source Water Protection: Opportunities and barriers for greater municipal engagement,” *Under Review*

Published

35. Green, Sierra Rae*, Carol Waldmann Rosenbaum*, Sara Hughes, Xinjie Wu*, Emily Dusicska*, Kathy Sun*, Subba Rao Chaganti, Casey Godwin, Michael Fraker, Henry A. Vanderploeg. *Forthcoming*. “Nutrient management in Lake Erie: Evaluating stakeholder values, attitudes, and policy preferences,” *Journal of Great Lakes Research*.
34. Hughes, Sara, Christine Kirchhoff, Mirit Friedman*, Katelyn Conedera*. 2023. “The Municipal Drinking Water Database,” *PLOS Water*, Vol. 2, Issue 4.
33. Dobie, Sarah*, Patrick J. Doran, Richard K. Norton, Sara Hughes, and Maeghen J. Goode.

2022. "Defining Coastal Resilience in the Great Lakes: A Systematic Review and Critical Comparison." *Journal of Great Lakes Research*, September.
32. Verrelli, Brian C., Marina Alberti, Simone Des Roches, Nyeema C. Harris, Andrew P. Hendry, Marc T. J. Johnson, Amy M. Savage, et al. 2022. "A Global Horizon Scan for Urban Evolutionary Ecology." *Trends in Ecology & Evolution*, August.
31. Hughes, Sara. 2022. A Multi-Dimensional Approach to Evaluating the Vulnerability of Drinking Water Systems. *Journal of Environmental Policy and Planning*. 24(2): 210-226.
30. Hughes, Sara, Andrew Dick*, and Anna Kopec*. 2021. "Municipal Takeovers: Examining State Discretion and Local Impacts in Michigan," *State and Local Government Review*. 53(3): 223-247.
29. Hughes, Sara, Sarah Dobie*, Kirsten Schwarz, Genevieve LaMarr LeMee*, Madeleine Lane*, Andres Gonzalez*. 2021. "Centering Racial Justice in Urban Flood Resilience Policy and Planning: Tools for practitioners and stakeholders," *Environmental Justice*. 15(2): 83-89.
28. Hughes, Sara, Sarah Giest, and Laura Tozer. 2020. "Accountability and Data-Driven Urban Climate Governance," *Nature Climate Change* 10: 1085-1090.
27. Hughes, Sara. 2020 "Flint, Michigan and the Politics of Safe Drinking Water in the US," *Perspectives on Politics*, First View, pp. 1-14. doi:10.1017/S153759272000136X.
26. Hughes, Sara. 2020. "Principles, Drivers, and Policy Tools for Just Climate Change Adaptation in Legacy Cities," *Environmental Science and Policy*, Vol. 111, pp. 35-41.
25. Carlson, Andrew*, William Taylor, and Sara Hughes. 2020. "The Metacoupling Framework Informs Stream Salmonid Management and Governance," *Frontiers in Environmental Science*. 8:27. doi: 10.3389/fenvs.2020.00027.
24. Hughes, Sara and Matthew Hoffmann. 2020. "Just Urban Transitions: Toward a Research Agenda," *WIREs Climate Change*, e640. doi: 10.1002/wcc.640
-Highlighted as a Top Cited Article between 2020 and 2021.
23. Hughes, Sara, Samer Yordi*, Laurel Besco. 2020. "The Role of Pilot Projects in Urban Climate Change Policy Innovation," *Policy Studies Journal*, Vol. 48(2): 271-297.
22. Hughes, Sara and Jacqueline Peterson*. 2018. "Transforming Municipal Services to Transform Cities: Understanding the Role and Influence of the Private Sector," *Sustainability*, 10:108.
21. Hughes, Sara, Daniel Miller Runfolo, Benjamin Cormier*. 2018. "Issue Proximity and Policy Response of Local Governments," *Review of Policy Research*, Vol. 35(2): 192-212.
20. Patterson, James J., Thomas Thaler, Matthew Hoffmann, Sara Hughes, Angela Oels, Eric Chu, Aysem Mert, Dave Huitema, Sarah Burch, and Andy Jordan. 2018. "Political Feasibility of 1.5°C Societal Transformations: The Role of Social Justice," *Current Opinion in Environmental Sustainability* 31:1-9.
19. Peterson, Jacqueline* and Sara Hughes. 2017. "Governing Garbage: Advancing urban sustainability in the context of private service delivery," *Cities: The International Journal of Urban Policy and Planning*, 70: 46-54.
18. Hughes, Sara. 2016. "The politics of urban climate change policy: Toward a research agenda," *Urban Affairs Review* Vol. 53(2): 362-380.
-Highlighted as second most cited paper in the journal, 2017-2020.
17. Lee, Taedong and Sara Hughes. 2016. "Perceptions of urban climate hazards and their effects on adaptation agendas," *Mitigation and Adaptation Strategies for Global Change*, 1-16. DOI:10.1007/s11027-015-9697-1
16. Hughes, Sara. 2015. "A Meta-Analysis of Urban Climate Change Adaptation Planning in the U.S.," *Urban Climate*, Special Issue: Building Capacity for Urban Climate Change Adaptation. Vol 14: 17-29.
15. Gurney, Kevin, Paty Romero-Lankao, Karen C. Seto, Lucy R. Hutyra, Riley

- Duren, Christopher Kennedy, Nancy B. Grimm, James R. Ehrlinger, Peter Marcotullio, Sara Hughes, Stephanie Pincetl, Mikhail V. Chester, Daniel Runfola, Johannes Feddema, Joshua Sperling. 2015. "Climate Change: Track Urban Emissions on a Human Scale." *Nature* 525 (7568): 179–81. doi:10.1038/525179a.
14. Hughes, Sara and Patricia Romero Lankao. 2014. "Science and Institution Building in Urban Climate Change Policy Making," *Environmental Politics* 23 (6): 1023-1042.
 13. Romero-Lankao, Patricia, Sara Hughes, Angelica Rosas Huerta, Roxana Burquez, Hua Qin, and Andrea Lampis. 2014. "Scale, Urban Risk, and Adaptation Capacity in Latin American Cities," *Habitat International* 42: 224-245.
 12. Hughes, Sara and Stephanie Pincetl. 2014. "Evaluating Collaborative Institutions in Context: The case of regional water management in southern California," *Environment and Planning C: Government and Policy* 32: 20-38.
 11. Runfola, Daniel Miller and Sara Hughes. 2014. "What Makes Green Cities Unique? Examining the economic and political characteristics of the grey-to-green continuum," *Land* 3: 131-147.
 10. Marcotullio, Peter, Sara Hughes, Andrea Sarzynski, Stephanie Pincetl, Landy Sanchez, Patricia Romero-Lankao, Daniel Runfola, Karen C. Seto. 2014. "Urbanization and the Carbon Cycle: Contributions from social science," *Earth's Future*, 2(10): pp. 496-514.
 9. Romero-Lankao, Patricia, Kevin R. Gurney, Karen C. Seto, Mikhail Chester, Riley M. Duren, Sara Hughes, Lucy R. Hutyra, Peter Marcotullio, Lawrence Baker, Nancy B. Grimm, Christopher Kennedy, Elisabeth Larson, Stephanie Pincetl, Dan Runfola, Landy Sanchez, Gyami Shrestha, Johannes Feddema, Andrea Sarzynski, Joshua Sperling, and Eleanor Stokes. 2014. "A critical knowledge pathway to low-carbon, sustainable futures: Integrated understanding of urbanization, urban areas, and carbon," *Earth's Future*, 2(10): pp. 515-532.
 8. Hughes, Sara. 2013. "Justice in Urban Climate Change Adaptation: Criteria and Application to Delhi," *Ecology and Society*, 18(4): 48-63.
 7. Hughes, Sara. 2013. "Authority Structures and Service Reform in Multilevel Urban Governance: The case of wastewater recycling in California and Australia," *Urban Affairs Review* 49(3): 381-407.
 6. Romero-Lankao, Patricia, Sara Hughes, Angelica Rosas Huerta, Roxana Burquez, and Melissa Haeffner. 2013. "Institutional Capacity for Climate Change Responses: An examination of construction and pathways in Mexico City and Santiago," *Environment and Planning C: Government and Policy* 31:785-805.
 5. Hughes, Sara, Stephanie Pincetl and Christopher Boone. 2013. "Triple Exposure: Regulatory, climatic, and political drivers of water management changes in the city of Los Angeles," *Cities: The International Journal of Urban Policy and Planning* 32: 51-59.
 4. Hughes, Sara. 2012. "Voluntary Environmental Programs in the Public Sector: Evaluation of an Urban Water Conservation Program in California," *Policy Studies Journal* 40(4): 650-673.
 3. Hughes, Sara, Annie Yau, Lisa Max, Nada Petrovic, Frank Davenport, Michael Marshall, Timothy R. McClanahan, Joshua C. Cinner, Edward H. Allison. 2012. "A Framework to Assess National Level Vulnerability From the Perspective of Food Security: The case of coral reef fisheries," *Environmental Science and Policy*. 23, 95-108.
 2. Braden, John, Jeffrey Dozier, Patricia Gober, Sara Hughes, David R. Maidment, Sandra L. Schneider, P. Wesley Schultz, James S. Shortle, Stephen K. Swallow, and Carol M. Werner. 2009. "Social Science in a Water Observing System," *Water Resources Research* Vol. 45, W11301.
 1. Hughes, Sara, Lena Partzsch, and Joanne Gaskell. 2007. "The Development of Biofuels within the Context of the Global Water Crisis," *Sustainable Development Law and Policy*, 7,

Chapters in Edited Volumes

13. Hughes, Sara and Yuer Wang*. *In press*. "Urban Climate Change Policy and Politics," in Ronald Vogel (Ed) *Handbook of Urban Politics*, Edward Elgar Publishing.
12. Hughes, Sara. 2020. "Local Environmental Policy in the United States," in David Konisky (Ed) *Handbook of US Environmental Policy*, Edward Elgar Publishing.
11. Hughes, Sara. 2020. "Climate Change and Cities," in Richardson Dilworth (Ed) *Oxford Bibliographies in Urban Studies*, New York: Oxford University Press. Virtual: <https://www.oxfordbibliographies.com/view/document/obo-9780190922481/obo-9780190922481-0023.xml>
10. Hughes, Sara. 2020. "Practicing Leadership with Persistence, Authenticity, and Practice," in William Taylor, Andrew Carlson, Abigail Bennett, and C. Paola Ferreri (Eds.) *Lessons in Leadership: Integrating Courage, Vision, and Innovation for the Future of Sustainable Fisheries*, American Fisheries Society Press.
9. Hughes, Sara, Laura Tozer, and Sarah Giest. 2019. "The Politics of Data-Driven Urban Climate Change Mitigation," in Jeroen van der Heijden, Harriet Bulkeley, and Chiara Certoma (Eds.) *Urban Climate Politics: Agency and Empowerment*, Cambridge University Press.
8. Hughes, Sara and Megan Mullin. 2018. "Local Water Politics," in Ken Conca and Erika Weinthal (Eds.) *The Oxford Handbook of Water Politics and Policy*, New York, NY: Oxford University Press. (Invited)
7. Burch, Sarah, Sara Hughes, Patricia Romero-Lankao, and Heike Schroeder. 2018. "Governing Urban Sustainability Transitions: The New Politics of Contestation and Collaboration," in Thomas Elmqvist, Xuemei Bai, Niki Frantzeskaki, Corrie Griffith, David Maddox, Timon McPhearson, Susan Parnell, Patricia Romer-Lankao, David Simon, and Mark Watkins (Eds.) *Urban Planet: Knowledge towards Sustainable Cities*, Cambridge University Press.
6. Hughes, Sara. 2014. "The urban future of fisheries," in William Taylor, Abigail Lynch, and Nancy Leonard (Eds.) *Future of Fisheries: Perspectives for Emerging Professionals*, Bethesda, MD: American Fisheries Society Press, pp. 429-434. (Invited)
5. Romero-Lankao, Patricia, Hua Qin, Sara Hughes, Melissa Haeffner and Mercy Borbo-Cordova. 2012. "Urban vulnerability and adaptation to the health impacts of air pollution and climate extremes in Latin American cities," in *Research in Urban Sociology*, ed. William G. Holt, Bingley, UK: Emerald Press.
4. Hughes, Sara and Joan Rose. 2011. "Governing Global Aquaculture for Human Security," with Joan Rose, in *Sustainable Fisheries: Multi-Level Approaches to a Global Problem*, eds. Michael Schechter, Abigail Lynch, and William Taylor: Bethesda, MD: American Fisheries Society Press.
2. Hughes, Sara and Jennifer McKay. 2010. "The Contribution of Actors to Achieving Sustainability in Australia through Water Policy Transitions," in *Policy Entrepreneurs: A research companion to water transitions around the world*, eds. Dave Huitema and Sander Meijerink, Cheltenham, UK: Edward Elgar Press.
2. Partzsch, Lena and Sara Hughes. 2010. "Food versus Fuel: Governance Potential for Water Rivalry," in *Food Ethics*, eds. Franz-Theo Gottwald, Hans Werner Ingensiep and Marc Meinhardt, New York, NY: Springer Publishers.
1. Hughes, Sara and Lena Partzsch. 2009. "Greening the Streams: US and EU Water Foreign Policy," in *Environmental Change and Foreign Policy*, ed. Paul G. Harris, London, UK: Routledge Press.

Contributions to Assessment Reports

5. United Nations Environment Program. 2021. "Global Environmental Outlook for Cities," UNEP, Nairobi.
4. Liz Malone et al. 2019. "Social Science Perspectives on the Carbon Cycle," *Second State of the Carbon Cycle Report*. U.S. Global Change Research Program, Washington, D.C.
3. Kevin Gurney et al. 2019. "Understanding Urban Carbon Fluxes," *Second State of the Carbon Cycle Report*. U.S. Global Change Research Program, Washington, D.C.
2. Patricia Romero-Lankao, Sarah Burch, and Sara Hughes. 2018. "Governance and Policy," in *Climate Change and Cities: Second Assessment Report of the Urban Climate Change Research Network (ARC32)*, Cambridge: Cambridge University Press.
1. Stephanie Pincetl, Guido Franco, Terri Hogue, Sara Hughes, Eric Pardyjak. 2012. "Urban Areas," in *Assessment of Climate Change in the Southwest United States: A Technical Report Prepared for the U.S. National Climate Assessment*. Tucson, AZ: Southwest Climate Alliance.

Policy Briefs and Reports

11. Daigger, Glen, Carol Miller, Joan Rose, et al. 2022. "Report to the Michigan Department of Environment, Great Lakes, and Energy (EGLE) on Water Infrastructure Regional Planning," Ann Arbor, MI.
10. Van Zanen, Amy and Sara Hughes. 2022. "Assessing Policy Drivers and Barriers for Sustainable Groundwater Management in Michigan," Ann Arbor, MI.
9. Hughes, Sara, Caroline Resor, and Heather Newberry. 2022. "Evaluating State Policies and Programs to Enable Local Flood Resilience in the Great Lakes," NOAA Great Lakes Integrated Science Assessment, Ann Arbor, MI.
8. Hughes, Sara. 2022. "City Powers and the Governance of Urban GHG Emissions in the U.S. and Canada," Ford School of Public Policy, University of Michigan.
7. Hansen, Katy, Sara Hughes, Andrea Paine*, James Polidori.* 2021. "Drinking Water Equity: Analysis and Recommendations for the Allocation of the State Revolving Funds." Environmental Policy Innovation Center, Washington, D.C.
6. Hughes, Sara, Kathryn Maloney, Anna Kacamarek, Heather Newberry, Elizabeth Wallace. 2021. "Addressing the Links Between Poverty, Housing, and Water Access and Affordability in Detroit," Poverty Solutions Policy Brief, University of Michigan.
5. Hughes, Sara, Kirsten Schwarz, Joyce Coffee, Genevieve LaMarr LeMee, Sarah Dobie, Madeleine Lane, Andres Gonzalez. 2021. "Centering Racial Justice in Urban Flood Adaptation: Planning and Evaluation Tools for Great Lakes Cities," Graham Sustainability Institute, University of Michigan.
4. Hughes, Sara. 2019. "Learning from Cities for the Green New Deal," *Public Administration Review Bully Pulpit Symposium: The Green New Deal: Pathways to a Low Carbon Economy* edited by Aseem Prakash and Nives Dolsak.
3. Hughes, Sara. 2018. "Bold vs. Bland: Toronto's Mayoral Election and the Challenge of City-building," *Urban Affairs Forum*.
2. Hughes, Sara. 2017. "Reducing Urban Greenhouse Gas Emissions: Effective Steering Strategies for City Governments," *Perspectives Paper* Number 16, Institute for Municipal Finance and Governance, University of Toronto.
1. Harris, Melissa, Sara Hughes, Arturo Keller, Patrick Roenhardz, Sam Bennett, and Robert Wilkinson. 2009. "The Energy and Water Nexus: How to maximize conservation bang for the efficiency buck," in *Water Efficiency Magazine*.

AWARDS AND FELLOWSHIPS

University of California, Los Angeles, Luskin Center for Innovation, Visiting Fellow, 2022-2023

University of Michigan Golden Apple Award Nomination, recognizing outstanding university teaching, 2021

University of Toronto Bissell-Heyd Fellow in the Center for the Study of the United States, 2016-2017

American Political Science Association, Urban Politics Section, Clarence Stone Young Scholar Award, 2013

University of California, Santa Barbara Affiliate's Graduate Fellowship, 2010

University of California, Santa Barbara Dean's Fellowship, 2009-2010

CALFED Science Program Pre-Doctoral Research Fellowship, 2008-2010

Henry Luce Foundation Science to Solutions Doctoral Student Fellowship, 2008-2010

Fulbright Postgraduate Fellowship, University of Adelaide, Australia, 2007-2008

TEACHING

University of Michigan

Environmental Policy, Politics, and Organizations

Graduate course (60 students)

2020, 2021

Water Policy & Politics

Graduate course (30-40 students)

2020, 2021, 2022

The Green New Deal: Origins, Aims, and Implications for U.S. Climate Politics

Graduate seminar (20 students)

2020

University of Toronto

Urban Politics

Undergraduate year-long course (75 students)

2015-2016, 2016-2017, 2018-2019

Urban Policy and Policymaking

Graduate seminar (20 students)

2016, 2017, 2019

University of Colorado, Boulder

Cities and the Environment

Undergraduate course (35 students)

2013

University of California, Santa Barbara

Sustainable Water Management

Extension certificate program in sustainable building and design (30 students)

2011

University of South Australia

Environmental Law and Policy
Undergraduate course (60 students)
2007

INVITED TALKS

- University of California, Santa Barbara, "Flint, Michigan and the Politics of Safe Drinking Water in the U.S.," October 10, 2022.
- University of Denver, "Flint, Michigan and the Politics of Safe Drinking Water in the U.S.," October 20, 2022
- CIGLR, "Interdisciplinary Perspectives on Equitable Urban Climate Change Adaptation in the Great Lakes," July 14, 2022.
- Metcalf Institute, "Infrastructure Adaptations for Climate Justice," June 10, 2022.
- Michigan University-Wide Sustainability and Environment Keynote Address, "Transforming Cities Through Climate Action," (virtual), February 4, 2022.
- University of Pittsburgh, "A Multidimensional Approach to Evaluating the Vulnerability of Drinking Water Systems," (virtual), January 26, 2022.
- We the People Detroit, "Municipal Takeovers: Examining State Discretion and Local Impacts in Michigan," (virtual), October 2021.
- National Oceanic and Atmospheric Administration (NOAA) Roundtable, "Centering Racial Justice in Urban Flood Adaptation," (virtual), September 29, 2021
- University of St. Joseph, "The Flint Water Crisis and the Politics of Safe Drinking Water in the United States," (virtual), September 14, 2021
- Colorado College, "Repowering Cities," (virtual), April 29, 2021
- TU Darmstadt, Germany, "Understanding Major Urban Transitions: Drivers and Dynamics," (virtual), April 21, 2021
- North American Colloquium Climate Series, "Urban Climate Governance in North America: Implementation through collaboration and coalitions," (virtual), April 8, 2021
- United States Federal Reserve Board, "Centering Justice in Urban Climate Resilience," (virtual), March 9, 2021
- Network on Infrastructural Regionalism (NOIR), "Risk in State-Led Regional Governance Networks: The case of the Karegnondi Water Authority," (virtual), September 29, 2020
- University of Virginia, Batten School of Leadership and Public Policy, "Repowering Cities: Governing Climate Change Mitigation in New York City, Los Angeles, and Toronto," (virtual), April 20, 2020
- University of California, Los Angeles, Luskin School of Public Affairs, "Repowering Cities: Governing Climate Change Mitigation in New York City, Los Angeles, and Toronto," Los Angeles, California, March 4, 2020
- Indiana University, O'Neill School of Public and Environmental Affairs, "Repowering Cities: Governing Climate Change Mitigation in New York City, Los Angeles, and Toronto," Bloomington, November 21, 2019
- Boston University, "Politics of Housing and Climate Change," Boston, August 5, 2019
- Notre Dame Global Adaptation Initiative, "Justice in Urban Adaptation: A Review and Application to Legacy Cities," South Bend, IN, May 24, 2019
- University of Toronto School of the Environment, Krause Memorial Lecture, "Learning to Steer: New Directions for Urban Climate Change Mitigation," Toronto, April 5, 2017
- North American Carbon Program, "Cities, Carbon, and Emerging Interdisciplinary Challenges," Bethesda, MD, March 29, 2017
- TEDxUoft, "Cities and Climate Change: Making the Links," Toronto, March 19, 2016
- University of Toronto Office of Sustainability, "Cities, Climate Change, and U of T: Making the Links," Toronto, March 9, 2016

- U.S. Environmental Protection Agency, Women in Science and Engineering, “The Role of Social Science in Environmental Research,” Durham, NC, July 29, 2014.
- The Regional Studies Association, “Evaluating the Potential for Justice in Urban Climate Change Adaptation in the U.S.,” Los Angeles, CA, December 17, 2013.
- The Energy and Resources Institute, “Urban Climate Change Planning: Exploring the Role of Institutions,” Delhi, India, May 21, 2012.
- University of Colorado, Denver, “Building Theories to Understand the Underlying Mechanisms of Injustice in Urban Climate Governance,” Workshop on Policy Process Research, February 15, 2012.
- University of Southern California, “Regulating Water: Strategies, Challenges, and Future Directions,” Department of Business and Government, Los Angeles, CA, March 24, 2011.
- University of California, Santa Barbara, “Determinants of the Adoption and Implementation of Urban Water Conservation Programs,” Department of Political Science, October 28, 2010.
- Helmholz Centre for the Environment, “Institutions and Water Management,” Leipzig, Germany, August 25, 2007.

CONFERENCE PRESENTATIONS

- “Driving the Cost of Water: Analysis of Drinking Water Costs in U.S. Municipalities,” with Christine Kirchhoff, Michelle Lee, and David Switzer, Urban Affairs Association, April 27, 2023
- “One City, Many Audiences: Local to Global Accountability in Urban Climate Policy,” with David Gordon, American Political Science Association, September 17, 2022
- “Feeling the Squeeze: Financial Stress and Drinking Water Spending in Cities,” with Christine Kirchhoff, Environmental Policy and Governance Workshop, June 29, 2022
- “The Policy Failures of Rental Housing: Plumbing Poverty in Detroit, Michigan,” with Heather Newberry, Urban Affairs Association, April 14, 2022.
- “Feeling the Squeeze: Financial Stress and Drinking Water Spending in Cities,” with Christine Kirchhoff, Mirit Friedman, and Katelynn Conedera, Midwest Political Science Association, April 8, 2022.
- “Fiscal Federalism and Infrastructure Investment: Disparities in Access and Allocation of Drinking Water State Revolving Funds,” with Katy Hansen, American Political Science Association, October 3, 2021.
- “The Implications of Urban Flood Risk Data for Policy, Planning, and Racial Justice: A Case Study of Detroit, Michigan,” with Sarah Dobie, UCLA Climate Adaptation Research Symposium, September 8, 2021.
- “Racial Justice in Urban Climate Change Governance,” European Consortium for Political Research, August 31, 2021 (virtual).
- “Infrastructure and Poverty Challenges for Water Security: Community Collaboration as Key,” Environmental Design Research Association, May 19, 2021 (virtual).
- “Local Effects of State Takeovers: Drinking water systems in Michigan,” Association for Public Policy and Management, November 11, 2020 (virtual).
- “Local Effects of State Takeovers: Drinking water systems in Michigan,” American Political Science Association, September 10, 2020 (virtual).
- “Sea Level Rise, Growth Machines, and Urban Climate Change Adaptation,” with Richardson Dilworth. Western Political Science Association, March 12, 2020. (cancelled due to coronavirus)
- “State Takeovers in Michigan: Examining implementation and implications for drinking water systems,” Urban Affairs Association, March 6, 2020. (cancelled due to coronavirus)

“Urban Water Policy in the Great Lakes: A pilot drinking water vulnerability assessment for the region,” (Poster) Association for Public Policy Analysis and Management, November 9, 2019, Denver CO.

“The Role of Policy Failure in Urban Crisis: Lessons from the Flint Water Crisis,” American Political Science Association, August 30, 2019, Washington, D.C.

“From Policy Failure to Urban Crisis: Making the links in Flint, Michigan,” Midwest Political Science Association, April 6, 2019, Chicago, IL.

“How Climate Change Mitigation Re/Shapes Urban Political Coalitions,” International Studies Association, March 27, 2019, Toronto, ON.

Urban Politics Short Course Co-Organizer: “Governing Urban Resilience: New comparative approaches,” American Political Science Association, August 29, 2018, Boston, MA.

“Building Urban Policy Coalitions: Insights from Climate Change Mitigation in Cities,” International Public Policy Workshops, June 26-28, 2018, Pittsburgh, PA.

Colloquy organizer: “Climate Change in Cities: Innovations in Multi-level Governance,” Urban Affairs Association meeting, April 4, 2018, Toronto, ON.

“The Politics of Data-Driven Urban Climate Change Mitigation,” Paper presented at the Association for Public Policy Analysis and Management, Chicago, IL, November 3, 2017.

“Experiments from the Bottom Up: Social Housing Retrofits in Toronto and Ontario,” Paper presented at the Canadian Political Science Association, Toronto, ON, May 30, 2017.

“Steering Cities: The role of city governments in reducing GHG emissions,” Paper presented at the Environmental Politics and Governance Workshop, Bloomington, IN, June 23, 2017.

“Coalitions, Ambitions, and Visions: Transportation Politics in Toronto 2003-2017,” Paper presented at the Urban Affairs Association meeting, April 20, 2017.

“How Do City Governments Steer? Evidence From Climate Change Policies in New York City, Los Angeles, and Toronto,” Paper presented at the American Political Science Association meeting, September 3, 2016, Philadelphia, PA.

“Urban Sustainability Policies: The steering role of city governments,” Paper presented at the American Political Science Association meeting, September 5, 2015, San Francisco, CA.

“The Steering Ability of City Governments: Reducing GHG Emissions in NYC, Los Angeles, and Toronto,” Paper presented at the Urban Affairs Association meeting, March 17, 2016, San Diego, CA.

“The Politics and Processes of Institutional Change for Urban Sustainability: Implementing Urban Climate Change Plans,” Paper presented at the Urban Affairs Association Annual Meeting, April 8-12, 2015 and the Midwest Political Science Association Annual Meeting, April 15-19, 2015.

“The Potential for Justice in Urban Climate Change Adaptation in the U.S.: The role of institutions,” Paper presented at the Urban Affairs Association Annual Meeting, March 19-21, 2014, San Antonio, TX.

“Evaluating and Explaining the Institutional Fit of Climate Change Mitigation and Adaptation Actions of Local Governments in the U.S.” with Daniel Runfola. Paper Presented at the Annual Meeting of the American Political Science Association, August 28-September 1, 2013, Chicago, IL.

“Multi-Scalar Dimensions of Urban Climate Change Planning: The Cases of Delhi and Mexico City.” 2013. Paper Presented at the International Studies Association Annual Meeting and the Urban Affairs Association Annual Meeting, April 3-8, San Francisco, CA.

“Institutional Drivers, Science Politics, and Urban Climate Change Planning in Mega-Cities.” 2012. Paper Presented at the Annual Meeting of the American Political Science Association, August 30-September 2, New Orleans, LA. (presented virtually due to hurricane)

- “Locating Authority in Urban Climate Adaptation: Processes and Consequences.” 2012. Paper Presented at the “Governing Adaptation” Symposium, March 21-22, Amsterdam, the Netherlands.
- “The Role of ‘Local’ Control in Promoting Justice in Urban Climate Change Planning.” 2012. Paper Presented at the Annual Meeting of the Association of American Geographers, February 25-29, New York, NY.
- “Evaluating Collaborative Institutions in Context: Regional Water Management in Southern California.” 2011. Paper Presented at the Annual Meeting of the American Political Science Association, September 1-4, Seattle, WA.
- “Multilevel Governance and Environmental Change: The Scale Politics of Recycled Water Development for Cities in California and Australia,” 2011. Paper Presented at the Conference on Earth System Governance, May 17-20, Fort Collins, CO.
- “Regulation, Reliability and Resources: Understanding Policy Effects on Urban Water Agencies,” 2010. Paper presented at the Fall Meeting of the Association for Public Policy Analysis and Management, November 4-6, Boston, Massachusetts.
- “Cities, Services, and Changing Contexts: Examining the Role of Institutions in Responding to Environmental Risk,” 2010. Paper Presented at the Conference on Urbanization and Global Environmental Change, October 15-17, Tempe, Arizona.
- “Urban Water Agencies and Organizational Strategy: Implications for Adaptation,” 2010. Paper Presented at the Annual Meeting of the Midwest Political Science Association, April 21-25, Chicago, Illinois.
- “Institutions and Sustainable Cities,” 2009. Paper Presented at the International Human Dimensions Program Open Meeting, April 25-29, Bonn, Germany.
- “Management That Fits: The Implications of Urban Water Management for the Bay-Delta”, 2009. Paper Presented at the Annual CALFED Science Meeting, September 29-October 1, Sacramento, California.

GRADUATE SUPERVISION AND COMMITTEES

PhD Students

- Olivia David, PhD student (advisor), University of Michigan, 2022-present
- Karl Hoesch, PhD candidate (committee member), University of Michigan, 2021-present
- Sarah Dobie, PhD candidate (committee member), University of Michigan, 2021-present
- Mirit Friedman, PhD candidate (committee member), University of Michigan, 2021-present
- Alyssa Schubert, PhD candidate (committee member), University of Michigan, 2020-present
- Emily Yang, PhD (committee member), University of Michigan, (completed 2022)
- Jacqueline Peterson, PhD (committee member), University of Toronto, (completed 2020; Director, Policy & Offsets at Kathairos Solutions, Inc.)
- Lorraine Sugar, PhD (committee member), University of Toronto, (completed 2019; International Finance Corporation)
- Scott Kalafatis, PhD (committee member), University of Michigan, (completed 2016; Deputy University Director, Northwest Climate Adaptation Science Center)

Master’s Thesis Students

- Yuer Wang, MSc student (thesis supervisor), University of Michigan, 2021-present
- Olivia David, MSc student (thesis supervisor), University of Michigan, 2020-2022
- Heather Newberry, MSc student (thesis supervisor), University of Michigan, 2020-2022
- Samer Yordi, MScSM student (thesis supervisor), University of Toronto, 2016-2017
- Claire Brownlie, MScSM student (thesis supervisor), University of Toronto, 2016-2017

SEAS Masters Group Projects

- “Development of a Reasoned Approach to Chloride Reduction in Michigan;” for the Michigan Department of Environment, Great Lakes, and Energy (completed 2022)
- “Implementing Natural Infrastructure in the Upper Mississippi River Basin: Lessons from Iowa;” for Environmental Defense Fund (completed 2021)
- “Soil Tax Incentives Project;” for The Nature Conservancy, Dow Fellows Program (completed 2020)

SERVICE

University Service (University of Michigan)

- Member, SEAS PhD Program Committee, 2022
- Member, SEAS DEI Sub-Committee: Communications and Diverse Voices, 2021-2022
- Member, UM Water Center Steering Committee, 2020-2022
- Member, UM Democracy and Debate Steering Committee, 2021-2022
- Member, UM Water Justice Conference Planning Committee, 2021-2022
- Member, CIGLR Council of Fellows, 2020-2022
- Member, Search Committee for the SEAS Director of Diversity, Equity, and Inclusion, 2021
- Member, Democracy and Debate speaker program committee, 2021
- Member, Chief Diversity Officer search committee, 2021
- Member, SEAS Doctoral Admissions Committee, 2019-2020

University Service (University of Toronto)

- Member, Search Committee for Director of the Master of Urban Innovation program, 2018-2019
- Member, University of Toronto Center for Urban Environments Steering Committee, 2017-2019
- Member, University of Toronto School of Cities Advisory Committee, 2017-2018
- Member, Department of Political Science Women’s Caucus, 2017-2018
- Member, Search Committee for Chair of the Department of Political Science, 2016-2017
- Member, UTM Search Committee Member for Western European Politics, 2016
- Faculty Supervisor, UTM Student Liberals Association, 2016-2017
- Member, Department of Political Science Graduate Student Award Committee, 2016
- Member, UTM Experiential Learning Committee, 2015-2017
- Member, UTM Work Load Policy Review Committee, 2015

Professional Service

- American Geophysical Union, EOS Science Advisor: Science and Society 2022-2025
- International Steering Committee, Environmental Politics and Governance Conference, 2018-present
- APSA Public Policy section Best Paper Award committee, 2022
- NSF reviewer, Strengthening America’s Infrastructure, 2022
- Reviewer, Intergovernmental Panel on Climate Change Working Group II, 2021
- Reviewer, Michigan Sea Grant, 2021
- Executive Council member, Urban and Local Politics section of APSA, 2020-present
- Treasurer, Science, Technology, and Environmental Politics section of APSA, 2020-present
- Best Paper Award Committee, Public Policy section of APSA, 2022
- Program Chair, Science, Technology, and Environmental Politics section of APSA, 2020
- Editorial Board Member, *Policy Studies Journal*, 2020-present
- Editorial Board Member, *Frontiers in Water: Water and Built Environment*, 2020-present

Review Editor, *Frontiers in Climate: Climate Risk Management*, 2019-present
Reviewer, National Science Foundation, 2019
Reviewer, Social Sciences and Humanities Research Council of Canada, 2019, 2020
Reviewer, California Sea Grant, 2019
Reviewer, Canada Research Chairs, 2018, 2021
Host Committee Member, Urban Affairs Association annual meeting, 2018
Chair, Best Journal Article Award Committee, Urban Affairs Association, 2017
Member, Best Paper Award Committee, Urban Affairs Association, 2016
Journal Reviewer: *American Political Science Review*; *Policy Studies Journal*; *Urban Affairs Review*; *Environmental Science & Policy*; *Current Opinion in Environment and Sustainability*; *Canadian Journal of Political Science*; *Data and Policy*; *State and Local Government Review*; *Society & Natural Resources*; *Coastal Management Journal*; *Ecology & Society*; *Conservation Letters*; *International Journal of Urban and Regional Research*; *Challenges*; *Journal of Sustainable Urban Development*; *Water*; *Urban Climate*; *Social Science Research*; *Environmental Studies and Science*; *Urban Climate*; *Journal of Planning Education and Research*; *Environment and Planning E*; *World Development*; *Public Policy and Administration*; *Weather, Climate and Society*; *PlosOne*; *Sustainability*; *Cities*; *Journal of Extreme Events*; *Review of Policy Research*; *Regional Environmental Change*; *Climatic Change*; *Public Administration Review*; *WIREs Water*; *Earth's Future*; *AWWA*; *Publius*; *Science*; more.

Outreach and Public-Facing Activities

Human Right to Water Solutions Lab, UCLA, 2022-present
Great Lakes Water Quality Agreement Nutrients Annex Outreach and Communications Working Group, 2022-present
Great Lakes Commission Water Infrastructure Working Group, 2021-2022
Water Conservation Program Review Committee Member, Detroit Water and Sewerage Department, 2021
Ann Arbor Citizen Climate Ambassadors Training, 2020, 2021, 2022
Invited Presentation, "Water Access and Affordability: Policy perspectives from Detroit and beyond," SEAS Alumni, November 6, 2020
City of Mississauga Stakeholder Committee for Climate Change Planning, 2017- 2019
Panellist, "Green City, Green Campus," Toronto Sustainability Summit, April 13, 2017
Symposium Organizer, "Learning to Steer: Reflections and Progress on Reducing Urban GHG Emissions," Center for the Study of the United States, University of Toronto, March 27, 2017
Invited Presentation, "How Do City Governments Steer?" City of Toronto Energy and Environment Division, March 23, 2017
Speaker, "Politics in Sustainability," University of Toronto Sustainable Engineers Association, January 28, 2017
Panel Organizer, "Helping Cities Navigate Global Change: A Critical Role for Urban Research Universities," University of Toronto Cities of Learning Symposium, May 11, 2015