

## TONY G. REAMES

University of Michigan  
School for Environment and Sustainability  
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### EDUCATION

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Ph.D. Public Administration, University of Kansas, 2014  
MEM Engineering Management, Kansas State University, 2005  
B.S. Civil Engineering, North Carolina Agricultural & Technical State University, 2002

### PROFESSIONAL EXPERIENCE

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#### *Academic Appointments*

2014-Present University of Michigan  
Assistant Professor, School for Environment and Sustainability  
Postdoctoral Fellow, School for Environment and Sustainability  
2012 (Summer) Haskell Indians Nations University  
Mentor, Haskell Environmental Research Studies (HERS) Institute  
2011-2012 University of Kansas  
Graduate Research Assistant, Institute for Policy & Social Research  
Graduate Teaching Assistant, School of Public Affairs and Administration  
2006-2010 University of Missouri-Kansas City  
Instructor, College of Arts and Sciences, Military Science Program

#### *Other Professional Experience*

2007-2011 City of Lee's Summit, MO  
Staff Engineer, Department of Public Works  
2006-2007 TranSystems Corporation, Kansas City, MO  
Project Engineer  
2006-2010 United States Army Reserves  
2002-2006 United States Army  
Operations Manager, Fort Jackson, SC  
Risk Management Coordinator, Fort Riley, KS  
Construction Engineer, Fort Riley, KS and Iraq  
University ROTC Recruiting Operations Officer, Duke and NC Central Universities  
2002 SC Department of Health & Environmental Control, Columbia, SC  
Hydrogeologist

### GRANTS

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#### *External funding*

2019 **Natural Resources Defense Council.** "Study on Energy Burdens and Evictions." (\$14,727. PI)  
2019 **National Institutes of Health.** "Evidence to improve heat warming effectiveness in reducing morbidity and mortality." (\$663,000. Co-I, PI: Gregory Wellenius)  
2018 **Harvard University/JPB Foundation.** "Exploring Associations between Temperature Exposure, Housing Quality, and Health During the Winter in Energy Poor Households." (\$240,000. PI)  
2018 **Alfred P. Sloan Foundation.** "Profiling Households in the Energy Efficiency Financing Doughnut Hole." (\$57,524. PI)  
2016 **Department of Energy/National Renewable Energy Lab.** "Unlocking Widespread Solar Adoption: Understanding Preferences of Low- to Moderate-Income Households to Create Scalable, Sustainable Models." (\$1.3M. Co-PI, PI: Benjamin Sigrin, NREL)

#### *Internal funding – University of Michigan*

2019 **Poverty Solutions Initiative.** "Detroit Communities Reducing Energy and Water (D-CREW)." (\$50,000. Co-PI, PI: Marie O'Neill)

- 2019 **MICHR- Pathway to Independence Award.** “Assessing Respiratory, Cognitive, and Mental Health Benefits of Energy Efficiency Upgrades in Detroit, MI.” (\$75,000. Co-I, PI: Marie O’Neill)
- 2019 **Graham Sustainability Institute Catalyst Grant.** “Expanding renewable energy policy initiative.” (\$10,000. Co-PI w/Sarah Mills & Barry Rabe)
- 2019 **M- Cubed.** “Energy justice, housing and health in a changing climate.” (\$60,000. Co-PI w/Marie O’Neill & Carina Gronlund)
- 2018 **Poverty Solutions Initiative.** “Eliminating the Path to Energy Poverty: A Multi-State Analysis of Equity in Energy Efficiency Investments.” (\$20,000. PI)

## AWARDS AND FELLOWSHIPS

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- 2019 **Midwest Energy News** 40 under 40
- 2019 **Grist.org** 50 Fixers
- 2019 **Oakland County Michigan** Elite 40 under 40
- 2018 **JPB Environmental Health Fellows Program.** Harvard University, 2018-2021
- 2016 **ECO:nomics Investing in the Future of Energy Fellow.** Wall Street Journal, 2016
- 2013 **Institute for Policy & Social Research Doctoral Research Fellow.** University of Kansas, 2013-2014
- 2011 **National Science Foundation Integrative Graduate Education and Research Traineeship (IGERT) Climate Change Humans and Nature in the Global Environment (C-CHANGE) Fellowship.** University of Kansas, 2011-2014
- 2009 **Thomas Page & Barbara Kester Scholarship.** University of Kansas, 2009-2011
- 2009 **Myron D. Calkins Scholarship.** American Public Works Association – Kansas City Metro Chapter, 2009-2011
- 2006 **Maurine Allison O’Bannon Memorial Scholarship.** Kansas State University, 2006-2007
- 2001 **Dwight D. Eisenhower Transportation Fellow.** North Carolina Agricultural and Technical State University, 2001-2002
- 2000 **Southeastern Transportation Center Scholar.** North Carolina Agricultural and Technical State University, 2000-2001

## PUBLICATIONS

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### *Journal Articles*

11. **Reames, T.G.** Blackmar, J. M., and Pierce, J.C. (accepted Dec 20, 2018). “Teaching the Three E’s of Sustainability through Service-Learning in a Professional Program.” *New Directions for Teaching and Learning*.
10. Ziegler, T.B., Coombe, C.M., Rowe, Z.E., Clark, S.J., Gronlund, C.J., Lee, M., Palacios, A., Larsen, L.S., **Reames, T.G.**, Schott, J., Williams, G.O. & O’Neill, M. (2019). Shifting from “Community-Placed” to “Community-Based” Research to Advance Health Equity: A Case Study of the Heatwaves, Housing, and Health: Increasing Climate Resiliency in Detroit (HHH) Partnership. *International Journal of Environmental Research and Public Health*, 16(18), 3310.
9. Sanchez, L., & **Reames, T. G.** (2019). Cooling Detroit: A socio-spatial analysis of equity in green roofs as an urban heat island mitigation strategy. *Urban Forestry & Urban Greening*, 44, 126331.
8. Fortier, M. O. P., Teron, L., **Reames, T. G.**, Munardy, D. T., & Sullivan, B. M. (2019). Introduction to evaluating energy justice across the life cycle: A social life cycle assessment approach. *Applied energy*, 236, 211-219.
7. **Reames, T. G.**, & Bravo, M. A. (2019). People, place and pollution: Investigating relationships between air quality perceptions, health concerns, exposure, and individual-and area-level characteristics. *Environment international*, 122, 244-255.
6. Chang, C. Y. A., Gao, Z., Kaminsky, A., & **Reames, T. G.** (2018). Michigan Sustainability Case: Revisiting the Three Gorges Dam: Should China Continue To Build Dams on the Yangtze River?. *Sustainability: The Journal of Record*, 11(5), 204-215.
5. **Reames, T. G.**, Reiner, M. A., & Stacey, M. B. (2018). An incandescent truth: Disparities in energy-efficient lighting availability and prices in an urban US county. *Applied energy*, 218, 95-103.
4. Bednar, D. J., **Reames, T. G.**, & Keoleian, G. A. (2017). The intersection of energy and justice: Modeling the spatial, racial/ethnic and socioeconomic patterns of urban residential heating consumption and efficiency in Detroit, Michigan. *Energy and Buildings*, 143, 25-34.

3. **Reames, T. G.** (2016). Targeting energy justice: Exploring spatial, racial/ethnic and socioeconomic disparities in urban residential heating energy efficiency. *Energy Policy*, 97, 549-558.

2. **Reames, T. G.** (2016). A community-based approach to low-income residential energy efficiency participation barriers. *Local Environment*, 21(12), 1449-1466.

1. Pierce, J., Lovrich, N., Johnson, B., **Reames, T.**, & Budd, W. (2014). Social capital and longitudinal change in sustainability plans and policies: Us cities from 2000 to 2010. *Sustainability*, 6(1), 136-157.

#### ***Edited Volumes and Chapters***

Bouzarovski, S., Fuller, S. and **Reames, T.G.** (forthcoming) *Handbook on Energy Justice*. Elgar.

Sidortsov, R and **Reames, T.G.** (forthcoming) *Handbook on Energy Security*. Routledge.

Daley, D. and **Reames, T.** (2015). Public participation and environmental justice: Access to federal decision-making. In editor Konisky, David, *Failed Promises: Evaluating the Federal Government's Response to Environmental Justice*. MIT Press.

Eckerd, A. and **Reames, T.** (2012). Urban renaissance or invasion: Planning the development of a simulation model of gentrification. In editor Desai, Anand, *Simulations for Policy Inquiry*. New York: Springer. 83-100.

#### ***Reports and Other Publications***

**Reames, T.G.**, Stacey, M.B., Zimmerman, M. (2019). [A Multi-State Analysis of Equity in Utility- Sponsored Energy Efficiency Investments for Residential Electric Customers](#). Urban Energy Justice Lab and UM Poverty Solutions: Ann Arbor, MI.

Kay, C., Markley, K., Sahai, M., Askew-Merwin, C., Rockowitz, D., and **Reames, T.G.** (2018). [Household water security in metropolitan Detroit: Measuring the affordability gap](#). Urban Energy Justice Lab and UM Poverty Solutions: Ann Arbor, MI.

Stacey, M.B. and **Reames, T.G.** (2017). [Social Equity in State Energy Policy: Indicators for Michigan's Energy Efficiency Programs](#). Urban Energy Justice Lab: Ann Arbor, MI.

**Reames, T.G.** (2017). [Improving the effectiveness of federal energy assistance for low-income households](#). Scholars Strategy Network.

**Reames, T.** (2013). [Environmental impacts of urbanization: Policy implications for local warming in Nuuk, Greenland](#). In editor Hansen, Klaus, Rasmus Ole Rasmussen and Ryan Weber, *Proceedings from the First International Conference on Urbanisation in the Arctic 28- 30 August 2012*. Nordregio.

## **MEDIA COVERAGE OF RESEARCH**

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- 2019 [San Jose Becomes the Largest City in the US to Ban New Natural Gas Lines](#). Earther, by Yessenia Funes. September 19, 2019.
- 2019 [Climate Resilience on Detroit's East Side](#). Belt Magazine, by Nina Misuraca Ignaczak. September 13, 2019.
- 2019 [In Detroit, a legacy of inequality creates obstacles to clean energy](#). Energy News Network, by Biba Adams. May 29, 2019.
- 2019 [Energy revolution must give low-income communities better access to affordable technologies](#). The Energy Mix. May 28, 2019.
- 2019 [Why Low-Income Households Need to Be Part of the Clean Energy Revolution](#). Yale Environment 360, by Katherine Bagley. May 16, 2019.
- 2019 [Energy-efficient LED bulbs often cost more in poor neighborhoods](#). Yale Climate Connections. May 8, 2019.
- 2019 [A Look at Climate Change and Why Black People Will Be Among Those Hardest Hit](#). BlacDetroit, by Paris Giles. May 1, 2019.
- 2018 [Energy access is not created equal. This Ann Arbor organization is trying to change that](#). Concentrate Magazine, by Jaishree Drepaal-Bruder. October 31, 2018.
- 2018 [Applications for energy assistance to be open all year starting Oct. 1](#). Michigan News, by Maya Goldman. September 28, 2018.
- 2018 [Energy-Efficient Light Bulbs Harder to Find, More Expensive in High-Poverty Neighborhoods](#). Greentech Media, by Justin Gerdes. May 21, 2018.
- 2018 [Going green is harder for Detroit's low-income communities](#). Grist.com, by Greta Jocham. May 9, 2018.
- 2018 [Access to energy-efficient lighting varies with poverty levels](#). The University Record, by Jim Erickson. April 11, 2018.
- 2017 [Wealthy benefit most from Michigan's energy savings plans, study finds](#). Bridge Magazine, by Andy Balaskovitz. December 14, 2017.
- 2017 [In Michigan, study shows utility energy savings mostly benefit wealthier customers](#). Midwest Energy News, by Andy Balaskovitz. December 13, 2017.

- 2016 [How Detroit's Climate Change Activists are Using Science to Plan for a Warmer City](#). ModelDMedia.com, by Nina Ignaczak. October 31, 2016.
- 2015 [The EPA has a plan to protect vulnerable communities. Will it work?](#) Grist.org, by Brentin Mock. April 27, 2015.

## TEACHING EXPERIENCE

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University of Michigan:	EAS 525 Energy Justice EAS 605/BA 605/Arch 527 Green Development
University of Kansas:	PUAD 825 Urban Policy and Administration PUAD 694 Sustainability and Civic Engagement
University of Missouri-Kansas City:	MIL-SCI 116 Foundations of Leadership MIL-SCI 126 Leadership Theory and Decision Making MIL-SCI 216 Individual Leadership MIL-SCI 226 Leadership and Teamwork

## STUDENT SUPERVISION

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### Graduate Students

#### Ph.D. (Chair)

2016- Dominic Bednar

#### Ph.D. (Committee Member)

2018- Lixi Liu

#### Master's Thesis (Chair)

2019- Jordan Larson

2019- Amanda Farthing (co-chair with w/Michael Craig)

2017- Michael Reiner

2018 Lino Sanchez. *Cooling Detroit: A Socio-Spatial Analysis of Equity in Green Roofs as an Urban Heat Island Mitigation Strategy*

2018 Shiva RaissiCharmakani. *A Programmatic Assessment of the U.S. Department of Energy Low-Income Weatherization Assistance Program*

2016 Dominic Bednar. *The Intersection of Energy and Justice: Exploring the Spatial, Racial, and Socioeconomic Patterns of Residential Heating Affordability, Consumption and Efficiency in Wayne County, Michigan*

#### Master's Thesis (Committee Member)

2018- Sacha-Rose Phillips

2019 Eloise Reid. *Overpriced and Underwater: Green Gentrification in Gentilly, New Orleans*

#### Master's Project and Practicum

2019- Abraham Baca

2018- Matt Haugen, Kanchan Swaroop, Sydney Troost, Samantha VanDyke, and Sabrina Vivian. *Building Energy Democracy into City Commitments for 100% Renewable Energy*

2018 Eric Krostich. *Energy Efficiency in the Built Environment: Using Three Project-Based Strategies to Make Real-World Impact*

2018 Nalin Bhattai. *Design of a Cost-effective, Modular, and Energy-efficient Home*

2018 Caillin Buchanan, Tyler Fitch, Benny Jeong, and Anna Lenhart. *(Dow Sustainability Fellows) Get Free: Understanding the potential for Community Solar Power in Highland Park*

2018 Christopher Askew-Merwin, Cria Kay, Kely Markley, Dahlia Rockowitz, and Malavika Sahai. *Roadmap to Water Security*

2017 Reema Abi-Akar, Gabriel Jones, and Yi Tang. *An Analysis of Waste Management and Zero Waste in Detroit, Michigan* (co-advise w/Greg Keoleian)

2016 Brian La Shier, Junhong Liang, Chayatach Pasawongse, Gianna Petito, and Whitney Smith. *Improving Institutional Access to Clean Energy Incentives through Research and Education* (co-advise w/Paul Mohai)

### Undergraduate Thesis

2019- Ashley Mark

2018- Michael Zimmerman

2019 Nicholas Simon. *Policy Proposal for Low- to Moderate-Income (LMI) Community Solar Programs in the American Sunbelt Region*

## PRESENTATIONS (Last 5 years)

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## **Conferences**

- 2019 7th Annual HBCU Climate Change Conference. “*Energy Justice in an Era of Climate Change Concern.*” New Orleans, LA (November 13-16, 2019).
- 2019 iSEE Congress. University of Illinois at Urbana-Champaign. “*The Intersection of Energy & Climate Justice: Spatial, Racial, and Socioeconomic Disparities in Mitigation and Adaptation Strategies.*” September 24-25, 2019.
- 2019 2nd International Conference on Energy Research and Social Science (w/Dominic Bednar). “*Assessing the spatial and temporal dimensions of U.S. household energy deprivation: Constructing a multidimensional energy vulnerability index.*” Arizona State University (May 28-31, 2019).
- 2019 2nd International Conference on Energy Research and Social Science (w/Sabrina Vivian). “*Solar for all: evaluating and guiding implementation of a low-income solar program.*” Arizona State University (May 28-31, 2019).
- 2019 2nd International Conference on Energy Research and Social Science (w/Sydney Forrester). “*Understanding the Residential Energy Efficiency Coverage Gap and Market Potential for Alternative Financing.*” Arizona State University (May 28-31, 2019).
- 2019 4th Annual Network of Early Career Researchers in Sustainability Transitions (NEST) Conference (w/ Sabrina Vivian). “*Solar for All: Evaluating and Guiding a Low-Income Solar Program.*” Lisbon, Portugal (April 4-5, 2019).
- 2019 Urban Affairs Association Conference. “*American Residential Energy Inequities Across Race, Class and Place.*” Los Angeles, CA (April 24-27, 2019).
- 2019 Urban Affairs Association Conference (w/ Dominic Bednar). “*Assessing the Spatial and Temporal Dimensions of U.S. Household Energy Deprivation: Constructing a Multidimensional Energy Vulnerability Index.*” Los Angeles, CA (April 24-27, 2019).
- 2018 Public Health Flint Task Force Water Summit. University of Michigan. “*Household Water Security in Metropolitan Detroit.*” October 2, 2018.
- 2018 Energy Policy Research Conference (w/ Ben Stacey). “*A Multi-State Analysis of Equity in Energy Efficiency Investments.*” Boise, ID (September 6-7, 2018).
- 2018 Energy Policy Research Conference (w/ Sydney Forrester). “*Profiling Households in the Energy Efficiency Doughnut Hole.*” Boise, ID (September 6-7, 2018).
- 2018 American Society for Public Administration (w/ Shiva Raissicharmakani). “*Overcoming Barriers to Energy Justice: How Policy and Practice Nuances Help Community Action Agencies Implement Low-Income Weatherization.*” Denver, CO (March 9-13, 2018).
- 2017 Environmental Justice in the Anthropocene Symposium (w/ Ben Stacey & Michael Reiner). Colorado State University. “*Just Bulbs: Exploring the Spatial, Racial, and Socioeconomic Disparities in Urban Energy Efficiency Access and Affordability.*” April 24-25, 2017.
- 2017 Urban Affairs Association Conference. “*Green Cures for Urban Ills: Environmental Sustainability and Community Change.*” Minneapolis, MN (April 19-22, 2017).
- 2017 1st International Conference on Energy Research and Social Science (w/Michael Reiner & Ben Stacey). “xxx.” Melia Sitges, Spain (April 2-5 2017).
- 2017 1st International Conference on Energy Research and Social Science (w/Dominic Bednar). “*The intersection of Energy and Justice: Exploring the spatial, racial and socioeconomic patterns of residential heating affordability, consumption and efficiency in Wayne County, Michigan.*” Melia Sitges, Spain (April 2-5 2017).
- 2016 Workshop on New Directions in the Analysis of Environmental Justice. Duke University. “*Exploring Energy (In)Justice: Issues of Affordability, Efficiency & Community.*” August 22-24, 2016.
- 2016 Policy History Conference. “*From Oil Crisis to Economic Crisis: 40 Years of American Energy Conservation and Assistance.*” Nashville, TN (June 1-4, 2016).
- 2016 Urban Affairs Association Conference. “*I Can't Breathe'- Race, Class, Place and Disparities in Air Quality Perceptions.*” San Diego, CA (March 16- 20, 2016).
- 2015 Social Institutions and Sustainability Symposium (w/ Nathaniel Wright). Wayne State University. “*How do Community-based Nonprofits Define Sustainable Communities?*” September 11, 2015.
- 2015 American Political Science Association Conference. “*Energy and Justice: Conservation, Efficiency & Affordability in a Submerged State.*” San Francisco, California (September 3-6, 2015).
- 2015 Urban Affairs Association Conference. “*Greening the hood: Do environmental based strategies improve urban communities?*” Miami, FL (April 8-11, 2015).

## **Invited Talks**

- 2019 School of the Earth, Ocean, and Environment Seminar. University of South Carolina. “*Exploring Residential Energy (In)Justice across Race, Class, and Place.*” November 21, 2019.
- 2019 Slipstream Board of Directors Annual Retreat. Madison, WI. October 28, 2019.
- 2019 Energy Efficiency Institute Seminar. University of California- Davis. “*Exploring Residential Energy (In)Justice across Race, Class, and Place.*” October 4, 2019.

- 2019 Environmental Studies Seminar. College of Environmental Science & Forestry, State University of New York. *“Toward Energy Justice: Exploring the Production and Persistence of Residential Urban Energy Disparities.”* March 7, 2019.
- 2019 Clean Energy States Alliance, Solar Equity Meeting. Atlanta, GA. January 29-30, 2019.
- 2019 Environmental and Water Resources Engineering Seminar. University of Michigan. *“Exploring the Production and Persistence of Residential Energy Disparities.”* January 25, 2019.
- 2018 Geography Research Seminar. University of Manchester. *“American Residential Energy Inequities Across Race, Class and Place.”* November 25, 2018.
- 2018 National Socio-Environmental Synthesis Center (SESYNC) Seminar. University of Maryland. *“The Production and Persistence of Urban Energy Disparities at the intersection of Place, Race & Class.”* October 9, 2018.
- 2018 TURN End Shutoffs for Healthy Communities convening. Oakland, CA. *“Why Energy Insecurity/Energy Justice matters for public health.”* May 16-18, 2018.
- 2017 Environmental Studies Departmental Colloquium. New York University. *“Toward Energy Justice: Exploring the Production and Persistence of Urban Residential Disparities.”* March 3, 2017.
- 2017 Environmental Policy Seminar. School of Public and Environmental Affairs, Indiana University Bloomington. *“Toward Energy Justice: Exploring the Production and Persistence of Urban Residential Disparities.”* February 24, 2017.
- 2016 Return to the Roost. School of Public Affairs and Administration, University of Kansas. *“Toward Energy Justice: Exploring the Production and Persistence of Urban Residential Disparities.”* November 29, 2016.
- 2016 Environmental Policy Seminar. Nicholas Institute for Environmental Policy Solutions, Duke University. *“The Intersection of Energy and Equity in Urban America: Exploring Disparities in Residential Energy Efficiency.”* February 4-5, 2016.
- 2015 Department of Public Administration Seminar. Binghamton University- SUNY. *“The Intersection of Energy and Equity in Urban America: Exploring Disparities in Residential Energy Efficiency.”* December 14, 2015.

#### **Keynotes**

- 2019 Midwest Energy Solutions Conference. Feb 21-22, 2019. Chicago, IL
- 2018 American Association of Blacks Inaugural Energy Ball. September 29, 2018. Detroit, MI
- 2018 Network for Energy, Water and Health in Affordable Buildings (NEWHAB) and Energy Efficiency for All (EEFA) Annual Convening. May 22, 2018. Detroit, MI

#### **Guest Lectures**

- 2019 EAS 510 The Science and Practice of Social Change, University of Michigan (December 2 & 4, 2019).
- 2019 Introduction to Sustainability, University of Northern Iowa (October 24, 2019).
- 2019 Introduction to Public Administration, University of Cincinnati (October 7, 2019).
- 2019 RCSSCI 360.003/ENVIRON 302.001 Energy Justice and Activism, University of Michigan (Jan 23, 2019).
- 2018 NRE 510 The Science and Practice of Social Change, University of Michigan (October 31, 2018).
- 2017 UC 327/427, University of Michigan (November 16, 2017).
- 2017 NRE 510 The Science and Practice of Social Change, University of Michigan (October 23, 2017).
- 2017 Energy Systems, SUNY College of Environmental Science and Forestry (October 11, 2017).
- 2017 PUBPOL 475 Oil & Gas Policy in the US, University of Michigan (January, 19, 2017).
- 2016 NRE 510 The Science and Practice of Social Change, University of Michigan (October 31, 2016).
- 2016 NRE 501 Technology and Community Sustainable Development, University of Michigan (September 19, 2016).
- 2015 Energy Systems, SUNY College of Environmental Science and Forestry (November 9, 2015).

## **PROFESSIONAL SERVICE**

### **Reviewer**

*Journal (number of papers):* Applied Energy (1); Energy Efficiency (1); Energy Policy (3); Energy Research & Social Science (3); International Journal of Environmental Research and Public Health (1); Journal of Community Practice (1); Nature Energy (1); Resources, Conservation & Recycling (2); Sustainability (2)

### *Grants:*

- 2018 Poverty Solutions 2019 Faculty Grants Competition, University of Michigan
- 2017 NC Sea Grant, North Carolina State University
- 2016 Graham Sustainability Institute Catalyst Grants, University of Michigan

### *Professional Meetings:*

- 2019 Public Management Research Conference. University of North Carolina- Chapel Hill, 2019

### *Organizing Professional Meetings:*

- 2018 Just Transitions Initiative Conference. Edinburgh, Scotland, 2019

### **University Service – University of Michigan**

University Library Advisory Council

School for Environment & Sustainability: *Scholarship Committee*  
*Detroit Initiative Committee*  
*Masters Project Task Force*  
*PhD Admissions Committee*

Faculty Advisor: *GRID Alternatives Students for Sustainable Energy*  
*People of the Global Majority for the Environment (PGMent)*

***Professional Affiliations***

American Political Science Association  
Association for Public Policy Analysis and Management  
American Society of Civil Engineers  
American Society for Public Administration  
Domicology Network, Michigan State University  
Ecology Center, Board of Directors  
Scholars Strategy Network  
Urban Affairs Association  
University of Michigan: *Center for Sustainable Systems*  
*Center for Local, State and Urban Policy (CLOSUP)*  
*Detroit Community-Academic Urban Research Center (Detroit-URC)*  
*Energy Institute*  
*Graham Sustainability Institute*  
*Poverty Solutions Initiative*  
*Science, Technology, and Public Policy (STPP) Program*

**CONSULTING EXPERIENCE**

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2019 GRID Alternatives, TNC/Electric Vehicle Equity Project  
2018 Clean Energy States Alliance (CESA), Solar Equity report consultant  
2018 City of Ann Arbor, MI Equity Scan of Climate Action Plan

**CERTIFICATIONS & SKILLS**

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*Certifications:* 2015- Diversity, Equity, and Inclusion Certificate, University of Michigan  
2013- Graduate Certificate in Environmental Studies, University of Kansas  
2009- Professional Engineering License (PE), Missouri Registration  
2002- Waste Management Certification, NC Agricultural and Technical State University

*Software:* ArcMap; STATA; ATLAS.ti; Qualtrics; Microsoft Products; Google Products