

Curriculum Vitae

TONY G. REAMES, PH.D., P.E.

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RESEARCH INTERESTS

I examine the environmental and social justice implications in the development and implementation of public policies and programs, particularly those focused on utility access and affordability. This includes extensive collaborations with federal, state and local government agencies, private corporations, public and private utilities, and nonprofit community-based organizations.

EDUCATION

- Ph.D., Public Administration, The University of Kansas, Lawrence, KS, 2014
DISSERTATION: *Environmental Justice in an Era of Climate Change Concern: The Intersection of Energy Efficiency and Equity in Urban America*
- Master of Engineering Management, Kansas State University, Manhattan, KS, 2007
- B.S. Civil Engineering, North Carolina Agricultural and Technical State University, Greensboro, NC, 2002

ACADEMIC/ TEACHING/ RESEARCH EXPERIENCE

Assistant Professor, School for Environment and Sustainability, University of Michigan, 2016 to Present

- Director, Urban Energy Justice Lab
- Courses taught: BA 605/EAS 605/Arch 507 *Green Development*; EAS 501.018 *Energy Justice*

Postdoctoral Research Fellow, School for Environment and Sustainability, University of Michigan, 2014 to 2016

Mentor, Haskell Environmental Research Studies (HERS) Institute, Haskell Indians Nations University, Summer 2012

Graduate Teaching Assistant, School of Public Affairs and Administration, The University of Kansas, 2011

- Courses taught: PUAD 825 *Urban Policy and Administration*; PUAD 694 *Sustainability and Civic Engagement*

Graduate Research Assistant, Institute for Policy & Social Research, The University of Kansas, 2009 to 2012

Instructor, College of Arts and Sciences, Military Science Program, University of Missouri-Kansas City, 2007 to 2009

- Courses taught: 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*

FUNDED RESEARCH

- Co-Investigator, *Unlocking Widespread Solar Adoption: Understanding Preferences of Low- to Moderate-Income Households to Create Scalable, Sustainable Models*. National Renewable Energy Lab (US Department of Energy), 2016-2019, \$1.3M
- PI, *Profiling Households in the Energy Efficiency Doughnut Hole*. Alfred P. Sloan Foundation, January – December 2018, \$57,524
- PI, *Eliminating the Path to Energy Poverty: A Multi-State Analysis of Equity in Energy Efficiency Investments*. University of Michigan Poverty Solutions, January- December 2018, \$20,000

PUBLICATIONS

- Reames, T.G., (under review). “Solar for All? A Review of Barriers and Opportunities for Expanding Access to Low-income U.S. Households.” *Renewable & Sustainable Energy Reviews*.
- **Reames, T. G.**, Reiner, M. A., and Stacey, M. B. 2018. “An incandescent truth: Disparities in energy-efficient lighting availability and prices in an urban U.S. county.” *Applied Energy*, 218:95-103.
- 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.
- Bednar, D.J., **Reames, T.G.**, and Keoleian, G. 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.
- **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.
- **Reames, T.G.** 2016. “A Community-based Approach to Low-income Residential Energy Efficiency Participation Barriers.” *Local Environment* 21, no. 12: 1449-1466.
- 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.
- Pierce, J.; Lovrich, N.; Johnson, B.; **Reames, T.**; Budd, W. 2014. “Social capital and longitudinal change in sustainability plans and policies: U.S. cities from 2000 to 2010.” *Sustainability* 6, no. 1: 136-157.
- **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.
- Eckerdt, 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.

PROJECTS ADVISED

- Sanchez, L. (2018). *Assessing the Sociospatial Inequities in Green Roof Siting for Reduced Cooling Loads During Heat Waves in Detroit, MI* (Master’s thesis). Retrieved from <https://deepblue.lib.umich.edu/handle/2027.42/143168>.

- RaissiCharmakani, S. (2018). *A Programmatic Assessment of the U.S. Department of Energy Low-Income Weatherization Assistance Program* (Master's thesis). Retrieved from <https://deepblue.lib.umich.edu/handle/2027.42/143155>.
- Kay, C., Markley, K., Rockowitz, D., Sahai, M. and Askew-Merwin, C. (2018). *Roadmap to Water Security* (Master's opus). Retrieved from <https://deepblue.lib.umich.edu/handle/2027.42/143169>.
- Abi-Akar, R., Jones, G. and Tang, Y. (2017). *Opportunities for Sustainable Materials Management and Zero Waste in Detroit*. (Master's opus). Retrieved from <https://deepblue.lib.umich.edu/handle/2027.42/136609>.
- La Shier, B., Petito, G., Liang, J., Smith, W., and Pasawongse, C. (2016). *Improving Institutional Access to Financing Incentives for Energy Demand Reductions*. (Master's opus). Retrieved from <https://deepblue.lib.umich.edu/handle/2027.42/117631>.
- Bednar, D. (2016). *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). Retrieved from <https://deepblue.lib.umich.edu/handle/2027.42/122696>.

RECENT CONFERENCE PRESENTATIONS

- *“Visualizing Energy Injustice at the Intersection of Class, Race and Place.”* Transformative infrastructures: Second energy vulnerabilities and path-ways symposium. Manchester, UK (February 1-2, 2018).
- *“Energy, Race and Class.”* Presented at Power to the People: Fueling the Revolution for Energy Justice. Memphis, TN (December 7, 2017).
- *“Language Landscape: Energy Insecurity, Energy Justice” with Diana Hernandez.* Presented at the Equity in Energy Convening: Aspirations and Principles for our Shared Future. Chicago, IL (December 6, 2017).
- *“Exploring the Production and Persistence of Urban America’s Residential Energy Disparities.”* Presented at the Energy Justice Summer Retreat, St. Andrews, Scotland, (June 26-29, 2017).
- *“Green Cures for Urban Ills: Environmental Sustainability and Community Change.”* Presented at annual meeting of the Urban Affairs Association, Minneapolis, MN (April 19-22, 2017).
- *“Exploring Energy (In)Justice: Issues of Affordability, Efficiency & Community.”* Presented at the Workshop on New Directions in the Analysis of Environmental Justice, Duke University, Durham, NC (August 22-24, 2016).
- *“From Oil Crisis to Economic Crisis: 40 Years of American Energy Conservation and Assistance.”* Presented at the 2016 Policy History Conference, Nashville, TN (June 1-4, 2016).
- *“I Can’t Breathe’- Race, Class, Place and Disparities in Air Quality Perceptions.”* Presented at the annual meeting of the Urban Affairs Association San Diego, CA (March 16-20, 2016).
- *“How do Community-based Nonprofits Define Sustainable Communities?”* Authors: Tony G. Reames, and Nathaniel Wright, Presented at the Social Institutions and Sustainability Symposium, Wayne State University, Detroit, MI (September 11, 2015).
- *“Energy and Justice: Conservation, Efficiency & Affordability in a Submerged State.”* Presented at the annual meeting of the American Political Science Association, San Francisco, California (September 3-6, 2015).
- *“Greening the hood: Do environmental based strategies improve urban communities?”* Authors: Nathaniel Wright and Tony Reames. Presented at the annual meeting of the Urban Affairs Association, Miami, FL (May 2015).

- “*Youth and Community-based Participatory Research.*” Growing a New Generation of Green Leaders panel, at South by Southwest Eco, Austin, TX (October 6-8, 2014).

RECENT INVITED PRESENTATIONS

- Political Science Speaker Series, Texas A&M University, “*The Production and Persistence of Urban Energy Disparities at the Intersection of Place, Race & Class.*” March 23, 2018.
- Aspen Institute, “*Injustice at the Intersection of Energy, Class, Place, and Race.*” March 15, 2018.
- Department of Political Science, University of Toledo, “*The Production and Persistence of Urban Energy Disparities at the Intersection of Place, Race & Class.*” February 15, 2018.
- Invited Seminar, Net Impact Club, University of Michigan, “*Toward Energy Justice: Exploring the Production and Persistence of Urban Residential Disparities.*” January 24, 2018.
- Invited Seminar, Michigan Energy Club, University of Michigan, “*Toward Energy Justice: Exploring the Production and Persistence of Urban Residential Disparities.*” November 15, 2017.
- Energy Justice Training and Roundtable, Detroit Branch National Association for the Advancement of Colored People (NAACP), “*Toward Energy Justice: Exploring the Production and Persistence of Urban Residential Disparities.*” June 3, 2017.
- Environmental Studies Departmental Colloquium, New York University, “*Toward Energy Justice: Exploring the Production and Persistence of Urban Residential Disparities.*” March 3, 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.
- Guest Lecture, PUBPOL 475 Oil & Gas Policy in the US, Ford School of Public Policy, University of Michigan, January, 19, 2017.
- Return to the Roost, School of Public Affairs and Administration, The University of Kansas, “*Toward Energy Justice: Exploring the Production and Persistence of Urban Residential Disparities.*” November 29, 2016.
- Guest Lecture, NRE 510 The Science and Practice of Social Change, School of Natural Resources and Environment, University of Michigan, October 31, 2016.
- Guest panelist, NRE 501 Technology and Community Sustainable Development, Community Lecture, School of Natural Resources and Environment, University of Michigan, September 19, 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.
- Invited Seminar, Department of Public Administration, Binghamton University- SUNY, “*The Intersection of Energy and Equity in Urban America: Exploring Disparities in Residential Energy Efficiency.*” December 14, 2015.
- Guest Lecture, Energy Systems course, SUNY College of Environmental Science and Forestry “*Energy and Justice: Issues of Affordability & Efficiency.*” November 9, 2015.

HONORS/ AWARDS/ FELLOWSHIPS

- Wall Street Journal ECO:nomics Investing in the Future of Energy Fellow, 2016
- Institute for Policy & Social Research Doctoral Research Fellow, The University of Kansas, 2013 to 2014

- National Science Foundation Integrative Graduate Education and Research Traineeship (IGERT) Climate Change Humans and Nature in the Global Environment (C-CHANGE) Fellowship, The University of Kansas, 2011 to 2014
- Thomas Page & Barbara Kester Scholarship, The University of Kansas, 2009 to 2011
- Myron D. Calkins Scholarship, American Public Works Association – Kansas City Metro Chapter, 2009 to 2011
- Maurine Allison O'Bannon Memorial Scholarship, Kansas State University, 2006 to 2007
- Dwight D. Eisenhower Transportation Fellow, North Carolina Agricultural and Technical State University, 2001 to 2002
- Southeastern Transportation Center Scholar, North Carolina Agricultural and Technical State University, 2000 to 2001

NONACADEMIC PROFESSIONAL EXPERIENCE

- **Staff Engineer**, Public Works Engineering, City of Lee's Summit, MO, 2007 to 2011
- **Project Engineer**, TranSystems Corporation, Kansas City, MO, 2006 to 2007
- **Operations Manager**, United States Army, Fort Jackson, SC 2005 to 2006
- **Risk Management Coordinator**, United States Army, Fort Riley, KS, 2005
- **Construction Engineer**, United States Army, Fort Riley, KS and Baghdad, Iraq, 2003 to 2005
- **University Recruiting Operations Officer**, United States Army, Duke and North Carolina Central Universities, Durham, NC, 2002 to 2003
- **Hydrogeologist**, South Carolina Department of Health & Environmental Control, Columbia, SC, 2002

CERTIFICATIONS

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

PROFESSIONAL ASSOCIATIONS/ AFFILIATIONS

- American Political Science Association
- American Society of Civil Engineers
- American Society for Public Administration
- Center for Sustainable Systems, University of Michigan
- Detroit Community-Academic Urban Research Center Community Action Research Network
- Energy Institute, University of Michigan
- Graham Sustainability Institute, University of Michigan
- Just Transitions Initiative Organizing Team
- Poverty Solutions, University of Michigan
- Scholars Strategy Network
- Urban Affairs Association