

*Curriculum Vitae*

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

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**RESEARCH INTERESTS**

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I conduct research in the emerging field of energy justice, which investigates fair and equitable access to affordable, reliable, and clean energy technology. My research employs energy analysis, geographic information systems (GIS), and policy analysis tools to study disparities in urban residential energy dynamics focusing on the production and persistence of spatial, racial, and socioeconomic inequality. I lead the Urban Energy Justice Research Group.

**EDUCATION**

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- 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, 1998

**ACADEMIC/ TEACHING/ RESEARCH EXPERIENCE**

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**Assistant Professor**, School of Natural Resources and Environment, University of Michigan Ann Arbor, 2016 to Present

- Courses taught: BA 605/NRE 605/Arch 507 *Green Development*; NRE 501 *Energy Justice*

**Postdoctoral Research Fellow**, School of Natural Resources and Environment, University of Michigan Ann Arbor, 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*

## NONACADEMIC PROFESSIONAL EXPERIENCE

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- **Staff Engineer**, Public Works Engineering, City of Lee's Summit, MO, 2007 to 2011
- **Project Engineer**, TranSystems Corporation, Kansas City, MO, 2006 to 2007
- **Executive Operations Manager**, United States Army, Fort Jackson, SC 2005 to 2006
- **Installation Risk Management Officer**, United States Army, Fort Riley, KS, 2005
- **Construction/Combat Engineering Officer**, United States Army, Fort Riley, KS and Baghdad, Iraq, 2003 to 2005
- **University ROTC 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

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- 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

## PUBLICATIONS

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- Bednar, D.J., **Reames, T.G.**, and Keoleian, G. (*In Press, Accepted Manuscript*). "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*.

- **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.
- 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.

### *In Progress*

- **Reames, T.G.** and Pierce, J.C. (working paper). “Teaching Sustainability for Public Administrators through Service-Learning”
- **Reames, T.G.** and Bravo, M.A. (working paper). “Racial, Spatial, and Socioeconomic Disparities in Metropolitan Air Quality Perceptions and Health Concern”
- **Reames, T.G.**, Stacey, M.B., and Reiner, M. (working paper). “Just Bulbs: Urban Disparities in Energy Efficient Technology Access and Affordability”
- **Reames, T.G.** and Wright, N.S. (working paper). “How Do Nonprofits Sustainable Communities?”
- **Reames, T.G.** (working paper). “Exploring Metropolitan Disparities in Willingness to Act to Improve Air Quality”

### FUNDED RESEARCH

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- *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.

### INVITED PRESENTATIONS

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- 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.
- Invited Seminar, Department of Political Science, University of North Carolina-Charlotte, “*The Intersection of Energy and Equity in Urban America.*” February 27, 2014.
- Invited Seminar, School of Government, University of North Carolina- Chapel Hill, “*The Intersection of Energy and Equity in Urban America: A Spatial Analysis of Residential Energy Efficiency in Kansas City.*” February 21, 2014.
- Invited Seminar, School of Natural Resources and Environment, University of Michigan, “*The Intersection of Energy and Equity in Urban America: A Spatial Analysis of Residential Energy Efficiency in Kansas City.*” February 11, 2014.
- Reimagining the City Seminar, Hall Center for Humanities, The University of Kansas, “*Greening the Poor: Policies, Programs and Realities of Residential Energy Inequality.*” February 10, 2014.

## CONFERENCE PRESENTATIONS

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- *“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).
- *“The Intersection of Energy and Equity in Kansas.”* Poster presented at the Workshop on Energy, Transportation and Water Infrastructure: Policy and Social Perspectives at Iowa State University (July 17-19, 2013).
- *“African Americans and the Environment.”* Presented at the 3<sup>rd</sup> Annual Spring Symposium on the Scholarship of Diversity at The University of Kansas (March 28, 2013).
- *“Prescribing Green Cures for Urban Ills: The Challenge for Environmental Sustainability and Green Technology to Spur Community Change.”* Authors: Tony G. Reames, Nathaniel Wright, Dorothy Daley, and Steven Maynard-Moody. Presented at the American Society for Public Administration 2013 Annual Conference, New Orleans, Louisiana (March 15-19, 2013).
- *“Local Government & Sustainability: Explaining Why Cities Adopt LEED.”* Presented at the American Society for Public Administration 2013 Annual Conference, New Orleans, Louisiana (March 15-19, 2013).

- *“Impacts of Urbanization: The Urban Heat Island Effect at Nuuk, Greenland.”* Presented at the First International Conference on Urbanisation in the Arctic, Nuuk, Greenland (August 27-30, 2012).
- *“The Hyphen Effect: Lessons in Making the Service-Learning Connection in a Professional Curriculum.”* Authors: Jeanette Blackmar, John Pierce, and Tony Reames. Presented at the National Association of Schools of Public Affairs and Administration Annual Conference, Kansas City, MO (October 20-22, 2011).
- *“No Lot Left Behind: Can Green Policy Initiatives Address Persistent Disadvantage in Urban Neighborhoods.”* Authors: Tony G. Reames, Nathaniel Wright, Dorothy Daley, and Steven Maynard-Moody. Presented at the Midwest Political Science Association 69<sup>th</sup> Annual National Conference, Chicago, Illinois (March 31 – April 3, 2011).
- *“Local Government & Sustainability: Testing Explanations for Innovation Adoption.”* Presented at the Department of Public Administration Doctoral Research Symposium, The University of Kansas (January 3, 2010).
- *“Modeling Transit Issues Unique to Hurricane Evacuations: North Carolina’s Small Urban and Rural Areas.”* Authors: Judy A. Perkins, Ibibia K. Dabipi, and Lee D. Han. Presented (with Melanie Hylton and Hector Williams) at the 81<sup>st</sup> Transportation Research Board (TRB) Annual Meeting, Washington, DC (January 13-17, 2002).

## HONORS/ AWARDS/ FELLOWSHIPS

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- 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

## PROFESSIONAL ASSOCIATIONS/ AFFILIATIONS

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- American Political Science Association
- American Society of Civil Engineers
- American Society for Public Administration
- Center for Sustainable Systems, University of Michigan
- Energy Institute, University of Michigan
- Poverty Solutions, University of Michigan
- Scholars Strategy Network
- Urban Affairs Association