

# SHAN ZHOU

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## EDUCATION

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Ph.D. (2016)	Public Policy	Georgia Institute of Technology
	<u>Dissertation:</u> <i>Three Essays on Clean Energy Technology Diffusion and Policy Innovations</i>	
	<u>Committee:</u> Drs. Marilyn A. Brown (Chair), Daniel C. Matisoff, Gordon A. Kingsley, Erik P. Johnson, and Valerie M. Thomas	
M.S. (2012)	Public Policy	Georgia Institute of Technology
M.S. (2009)	Environmental Sciences, Policy and Management	European Commission Erasmus Mundus Program (MESPOM)
B.S. (2007)	Environmental Sciences	Beijing Normal University

## ACADEMIC POSITIONS

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2018 –	Assistant Professor of Environmental Policy	Department of Social Sciences, Michigan Technological University
2016 – 2017	Visiting Assistant Professor	School of Public and Environmental Affairs, Indiana Univ. - Purdue Univ. Indianapolis

## AREAS OF INTEREST

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Environmental and Energy Policy, Environmental and Energy Justice, Urban Sustainability, Policy Processes, Policy Analysis, Quantitative Research Methods

## PUBLICATIONS

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- Zhao, S., **Zhou, S.** and Noonan, D. "Environmental Justice and Green Schools – Assessing Students and Communities' Access to Green Schools". Forthcoming at *Social Science Quarterly*.
- Lu, H., Mayer, A. L., Wellstead, A. M., & **Zhou, S.** (2019). Can the dual identity of policy entrepreneur and policy implementer promote successful policy adoption? Vertical greening policymaking in Shanghai, China. *Journal of Asian Public Policy*, 1-16.  
<https://doi.org/10.1080/17516234.2019.1631241>.

- Zhou, S. and Noonan, D. (2019). "Justice Implications of Clean Energy Policies and Programs in the United States: A Theoretical and Empirical Exploration". *Sustainability*, 11(3), 807. <http://doi.org/10.3390/su11030807>.
- Zhou, S., Matisoff, D., Kingsley, G., and Brown, M. (2019). "Understanding Renewable Energy Policy Adoption and Evolution in Europe: The Impact of Coercion, Normative Emulation, Competition, and Learning". *Energy Research & Social Science*, 51, 1-11. <http://doi.org/10.1016/j.erss.2018.12.011>. (IF: 3.815)
- Brown M., Zhou S. and Ahmadi M. (2018). "Smart Grid Governance: An International Review of Evolving Policy Issues and Innovations". *WIREs Energy Environ* 7(5): e290. <https://doi.org/10.1002/wene.290>. (IF: 2.514)
- Noonan, D., Zhou, S. and Kirkman, R. (2017). "Making Smart and Sustainable Infrastructure Projects Viable: Private Choices, Public Support, and System Constraints". *Urban Planning* 2(3): 18-32. <http://dx.doi.org/10.17645/up.v2i3.999>.
- Zhou, S. and Brown, M. (2017). "Smart Meter Deployment in Europe: A Comparative Case Study on the Impacts of National Policy Schemes". *Journal of Cleaner Production* 144: 22-32. <https://doi.org/10.1016/j.jclepro.2016.12.031>. (IF: 4.959)
- Zhou, S. and Matisoff, D. C. (2016). "Advanced Metering Infrastructure Deployment in the United States: The Impact of Polycentric Governance and Contextual Changes". *Review of Policy Research* 33(6): 646-665. <https://doi.org/10.1111/ropr.12203>. (IF: 1.167)
- Brown, M. and Zhou, S. (2013). "Smart-grid Policies: An International Review". *Wiley Interdisciplinary Reviews: Energy and Environment* 2(2): 121-139. <https://doi.org/10.1002/wene.53>. (IF: 2.514)

## PAPERS IN REVISION & UNDER REVIEW

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- Zhou, S. and Solomon, B. "Does Renewable Portfolio Standards in the United States Stunt Total Renewable Electricity Development?" Under review at *Energy Policy*.
- Zhou, S. and Liang, J. "Migrants, Unequal Citizenship, and Environmental Amenities in Urban China". Under review at *Policy Studies Journal*.
- Curley, C., Zhou, S., Harrison, N. and Xu, C. "Collaboration Mitigates Barriers of Utility Ownership on Policy Adoption". Under review at *Local Environment*.

## WORK IN PROGRESS

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- Zhou, S. "Understanding Utility Grid Modernization Efforts in the United States: Policy Impact on the Use and Integration of Clean Energy Technologies". In preparation for submission to *Energy Policy*.
- Zhou, S., Zhao, S. and Noonan, D. "Why do Schools Go Green? – Assessing State and Local Policy Effectiveness on Green School Building Infrastructure".

Zhao, S., Noonan, D., & Zhou, S. "Developing Measurements for Environmental Justice (EJ) Communities for EJ Practice and Study".

## **CONFERENCE & INVITED PRESENTATIONS**

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- "Why do Schools Go Green? – Assessing State and Local Policy Effectiveness on Green School Building Infrastructure". 2019 APPAM Fall Research Conference. Denver, CO. November 7-9, 2019.
- "Accessing Urban Green Space and Environmental Facilities: Empirical Evidence from China" The 77<sup>th</sup> Annual Midwest Political Science Association (MPSA) Conference. Chicago, IL. April 4-7, 2019.
- "Understanding Utility Grid Modernization Efforts in the United States: Technology in Place vs. Technology in Use". 2018 APPAM Fall Research Conference. Washington, D.C. November 8-10, 2018.
- "The Influence of City-Utility Collaboration on Local Level Energy-Related Policy Adoption". (Poster). 2018 APPAM Fall Research Conference. Washington, D.C. November 8-10, 2018.
- "A Green Classroom Environment? – Assessing Students and Communities' Equitable Access to Green Schools." 2018 APPAM Fall Research Conference. Washington, D.C. November 8-10, 2018. (Paper presented by coauthor)
- "The Influence of City-Utility Collaboration on Local Level Energy-Related Policy Adoption". Midwest Political Science Association. Chicago, Illinois. April 5-8, 2018. (Accepted and withdrawn).
- "How Does Heterogeneity of Potential Adopters Affect Clean Energy Technology Diffusion: An Empirical Analysis of Smart Grid Roll Out in the United States". Southern Economic Association 87<sup>th</sup> Annual Meeting. Tampa, Florida. November 17-19, 2017. (Paper presented by coauthor)
- "Justice Implications of Clean Energy Policies: Using Data in a Multi-Level Analysis in the United States to Inform Policy Choices". 2017 APPAM Fall Research Conference. Chicago, Illinois. November 2-4, 2017.
- "Understanding Pressures for Renewable Energy Policy Adoption and Evolution: Coercion, Emulation, Competition and Learning". The 2017 Environmental Politics & Governance (EPG) Conference, Bloomington, Indiana. June 21-24, 2017. (Paper presented by coauthor)
- "Political Redistribution of the ARRA Funding: An Analysis of Community Access to Smart Grid Systems and Services". The 54<sup>th</sup> Annual Meetings of the Public Choice Society. New Orleans, Louisiana. March 2-4, 2017.
- Research Coordination Networks (RCN) – National Science Foundation-Supported Sustainability Research Network (SRN) – Sustainable Healthy Cities. Municipal Utilities

Workshop: Aligning City Needs with Research Opportunities. Tallahassee, FL. October 17-18, 2016.

“Advanced Metering Infrastructure Deployment in the United States: The Impact of Multi-tiered Governance and Contextual Changes”. 2015 APPAM Fall Research Conference. Miami, FL. November 12-14, 2015.

“Wind Energy and Negative Pricing: Is Production Tax Credit to Blame?” The 5th Annual Energy Policy Research Conference. Denver, CO. September 10-11, 2015. (Paper presented by coauthor)

“Smart Grid Deployment and its Economic Impacts on Georgia”. Georgia Tech Program in Science, Technology and Innovation Policy (STIP) Intern Program Readout. Atlanta, GA. September 11, 2012.

## TEACHING EXPERIENCE

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### *Department of Social Sciences, Michigan Tech:*

Instructor	Spring 2019	<b>SS 3630: Environmental Policy and Politics</b> (undergraduate, class size: 35)
	Fall 2018	<b>SS 5350: Environmental Policy Analysis</b> (graduate, class size: 7   evaluation score: 4.9/5.0)
		<b>UN1025: Global Issues</b> (undergraduate, class size: 90   evaluation score: 4.0/5.0)

### *School of Public and Environmental Affairs, IUPUI:*

Instructor	Fall 2016;	<b>SPEA K300: Statistical Techniques</b>
	Spring 2017	(undergraduate, class size: 30   evaluation score: 4.3/5.0)

### *School of Public Policy, Georgia Tech:*

Graduate Teaching Assistant	Spring 2012	<b>PHIL 3127: Science, Technology, and Human Values</b> (undergraduate)
	Fall 2011	<b>PUBP 3120: Statistical Analysis in Public Policy</b> (undergraduate)
	Spring 2010	<b>PST 3109: Ethics and the Technical Profession</b> (undergraduate)

## STUDENT ADVISING

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Hongmei Lu, Environmental and Energy Policy Program, PhD - Committee member  
Jennifer Rachels, Environmental and Energy Policy Program, PhD - Committee member  
Robert LaFave, Environmental and Energy Policy Program, PhD - Committee member  
Emily Shaw, Environmental Engineering, PhD - Committee member

Robert Zupko, Environmental and Energy Policy Program, MS - Committee member

## **GRANT PROPOSALS**

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- “Co-Designing Smart Policies for the Smart Grid”, grant proposal submitted to Michigan Tech College of Engineering Cross-cutting Initiative: Seed Funding Stage I (\$5,000)
- “Systematic Energy Transition”, grant proposal submitted to Michigan Tech College of Engineering Cross-cutting Initiative: Seed Funding Stage I (\$5,000)
- “Social Equity of the U.S. Sustainable Energy Transition Policies” (PI), grant proposal submitted to the Ralph E. Power Junior Enhancement Award, Oak Ridge Associated Universities (ORAU) (\$10,000)
- “Mapping and modeling desertification and its impact on anthropogenic dust and health-related external costs in Central Asia” (Co-PI), grant proposal submitted to NASA Research Opportunities in Space and Earth Sciences 2019

## **AWARDS, HONORS AND FELLOWSHIPS**

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- Political Economy and Environmental Research Fellowship (\$100,714), SPEA, Indiana University - Purdue University Indianapolis, 2016-2017
- Ivan Allen College of Liberal Arts Dean’s Fellowship (\$122,520), Georgia Institute of Technology, 2012-2016
- Ivan Allen College of Liberal Arts Graduate Student Travel Award (\$300), Georgia Institute of Technology, 2015
- Georgia Tech Program in Science, Technology and Innovation Policy (\$6,000), School of Public Policy & Enterprise Innovation Institute, Georgia Institute of Technology, 2012
- Erasmus Mundus Scholarship (€42,000), European Commission, 2007-2009
- Outstanding Graduate, The City Government of Beijing, 2007
- Outstanding Graduate Award, Beijing Normal University, 2007
- Outstanding Bachelor’s Thesis Award, Beijing Normal University, 2007
- Academic Scholarship, Beijing Normal University, 2003-2007

## **SERVICE & LEADERSHIP EXPERIENCE**

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Journal Reviewer	Review of Policy Research, Policy Science, Journal of Cleaner Production, Energies, International Journal of Mass Emergencies and Disasters, Environmental Science & Technology
Conference Reviewer	2019 APPAM Energy and Environment section
Panel Chair	2016 APPAM panel session: “Federalism in Environmental Governance” (#7104)

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Panel Discussant	2016 APPAM panel session: “Addressing Challenges for the Evolving Utility” (#7222); 2019 MPSA panel session: “Interest Groups & Environmental Politics”; 2019 APPAM panel session: “Innovative Use of Data in Environmental Policy Study (#12854)
Panel Organizer	2015 APPAM panel session: “Diffusion of Innovations: Insights from Sustainable Energy Transition in the U.S. and Europe” (#5677); 2018 APPAM panel session: “Data-Driven Analysis for the Impact of Technology Adoption on Electricity Market Prices, Climate Mitigation and Energy Services” (#11004)
Intern	United Nations Industrial Development Organization (UNIDO)

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### SKILLS & MEMBERSHIPS

Quantitative analysis	Econometrics, Statistics, Case Studies, Cost Benefit Analysis, Life Cycle Assessment, Input-Output Analysis, Environmental Impact Assessment, Contingent Valuation, Policy Analysis
Computing	Microsoft Office Package, ArcView GIS, QGIS
Statistics	R, STATA, SPSS and Minitab
Memberships	APPAM, MPSA