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Paul O'Neill School of Public and Environmental Affairs  
Indiana University, Room 353, 1315 East Tenth Street, Bloomington, IN 47405  
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### PROFESSIONAL APPOINTMENTS

Professor, Paul O'Neill School of Public and Environmental Affairs, Indiana University	2019 - present
Director, Master of Public Affairs Programs, Paul O'Neill School, Indiana University	2019 - present
Associate Professor, Paul O'Neill School, Indiana University	2014 - 2019
Chair, Policy Analysis and Public Finance, Paul O'Neill School, Indiana University	2016 - 2019
Assistant Professor, Paul O'Neill School, Indiana University	2010 - 2014

### PROFESSIONAL AFFILIATIONS

GT Scholar	2019 - present
Research Fellow, Center for Organization Research and Design	2016 - present
Research Member, The Richard G. Lugar Center for Renewable Energy	2013 - present
Member, Scholars Strategy Network	2017 - present

### EDUCATION

University of North Carolina at Chapel Hill. Ph.D. Public Policy, 2010.  
University of Wisconsin-Madison. M.S. Urban and Regional Planning; Certificate, Energy Analysis and Policy, 2006.  
Swarthmore College. B.A. Economics; B.A. Sustainable Development, 2003.

### AREAS OF RESEARCH

Energy Policy, Energy Justice, Electricity Markets, Transportation Industry, Energy-based Economic Development, Policy Instruments, Electric Vehicles, Distributed Generation, Brewing Industry

### CONSULTING AND WORK EXPERIENCE

Consultant, Institute for International Business, Indiana University, Bloomington, IN, 2013.  
Consultant, Environmental Protection Agency, Conflict Prevention and Resolution Center, Washington D.C., 2010.  
Consultant, Research Triangle Institute International, Center for Technology Applications, Research Triangle Park, NC, 2009 - 2010; 2017.  
Consultant, ARCeconomics, SC., 2007 – 2010.  
Consultant, The Nicholas Institute for Environmental Policy Solutions, Durham, NC, 2008  
Graduate Fellow, Center for Sustainable Energy, Environment, and Economic Development, Chapel Hill, NC, 2006 - 2010  
Energy Program Specialist, Wisconsin Public Utility Institute, Madison, WI, 2005 – 2006.  
Consultant, World Bank Group, Development Economic Research of the Public Sector, Washington D.C., 2003 – 2006.

## BOOKS

Carley, S., Lawrence, S. 2014. *Energy-based Economic Development: How clean energy can drive development and stimulate economic growth*. Springer: New York.

Reviews of the Book:

- Sharma, K. R., Wilson, E. 2016. Book Review of “Energy-based Economic Development: How clean energy can drive development and stimulate economic growth.” *Journal of Policy Analysis and Management* 35(3): 728-731.
- Ghadimi, H. 2017. Book review: *Energy-based Economic Development: How clean energy can drive development and stimulate economic growth*. *Economic Development Quarterly* 31(1): 92-96.

## PEER- OR EDITOR-REVIEWED PUBLICATIONS

\* Denotes student co-author at time of writing

Carley, S., Graff, M.\* 2020. A Just U.S. Energy Transition. Forthcoming in *Handbook of U.S. Environmental Policy*, Eds. D. Konisky. Edward Elgar Publishing.

Carley, S., Ziropiannis, N., Duncan, D., Siddiki, S., Graham, J. D. 2019. Overcoming the shortcomings of U.S. plug-in electric vehicle policies. *Renewable and Sustainable Energy Reviews*.

Carley, S., Ansolabehere, S., Konisky, D. 2019. Are all electrons the same? Evaluating support for local transmission lines through a survey experiment. *PLoS ONE*.

Carley, S., Ziropiannis, N., Duncan, D., Siddiki, S., Graham, J. D. 2019. An analysis of the macroeconomic effects of 2017-2025 federal fuel economy and greenhouse gas emissions standards. *Journal of Policy Analysis and Management* 38(3): 732-763.

- Winner of the George I. Trez Award for Excellence in Economic Analysis, Best Paper Award, honored by Regional Economic Modeling, Inc.

Carley, S., Nicholson-Crotty, S., Siddiki, S. 2019. Evolution of plug-in electric vehicle demand: Assessing consumer perceptions and intent to purchase over time. *Transportation Research Part D: Transport and Environment* 70: 94-111.

Baldwin, E., Carley, S., Nicholson-Crotty, S. 2019. Why do countries emulate each others' policies? A global study of renewable energy policy diffusion. *World Development* 120: 29-45.

Graff, M.\*, Carley, S., Pirog, M. 2019. A review of the environmental policy literature from 2014-2017 with a closer look at the energy justice field. *Policy Studies Journal* 47(S1): S17-S44.

Ziropiannis, N., Duncan, D., Carley, S., Siddiki, S., Graham, J. D. 2019. The effect of CAFE standards on vehicle sales projections: A total cost of ownership approach. *Transport Policy* 75: 70-87.

Jenn, A., Hardman, S., Carley, S., Ziropiannis, N., Duncan, D., Graham, J. D. 2019. Cost implications for automakers' compliance with emission standards from Zero Emissions Vehicle mandate. *Environmental Science & Technology* 53(2): 564-574.

Duncan, D., Ku, A.\*, Julian, A.\*, Carley, S., Siddiki, S., Ziropiannis, N., Graham, J.D. 2019. Most Consumers Don't Buy Hybrids: Is Rational Choice a Sufficient Explanation? *Journal of Benefit-Cost Analysis* 10(1): 1-38.

- Carley, S., Yahng, L. 2018. Willingness-to-pay for sustainable beer. *PLoS ONE*.
- Zambrano-Gutierrez, J.\*, Nicholson-Crotty, S., Carley, S., Siddiki, S. 2018. The Role of Public Policy in Technology Diffusion: The case of Plug-in Electric Vehicles. *Environmental Science & Technology* 52(19): 10914-10922.
- Carley, S., Nicholson-Crotty, S. 2018. Moving Beyond Theories of Neighborly Emulation: Energy Policy Information Channels are Plentiful among American States. *Energy Research and Social Science* 46: 245-251.
- Carley, S., Davies, L., Spence, D., Ziropiannis, N. 2018. Empirical evaluation of the stringency and design of renewable portfolio standards. *Nature Energy* 3: 754-763.
- Carley, S., Evans, T. P., Graff, M.\*, Konisky, D. M. 2018. A framework for evaluating geographic disparities in energy transition vulnerability. *Nature Energy* 3: 621-627.
- Graff, M.\*, Carley, S., Konisky, D. 2018. Stakeholder perceptions of the United States energy transition: Local-level dynamics and community responses to national politics and policy. *Energy Research & Social Science* 43: 144-157.
- Carley, S., Evans, T. P., Konisky, D. M. 2018. Adaptation, culture, and the energy transition in American coal country. *Energy Research & Social Science* 37: 133-139.
- Lane, B., Carley, S., Siddiki, S., Dumortier, J., Clark-Sutton, K.\*, Graham, J. D. 2018. All electric vehicles are not the same: Predictors of preference for a plug-in hybrid versus a battery-electric vehicle. *Transportation Research Part D: Transport and Environment* 65, 1-13.
- Siddiki, S., Carley, S., Ziropiannis, N., Duncan, D., Graham, J. 2018. Does dynamic federalism yield compatible policies? A study of federal and state vehicle standards. *Policy Design and Practice* 1(3): 215-232.
- Nicholson-Crotty, S., Carley, S. 2018. Information exchange and policy adoption decisions in the context of U.S. state energy policy. *State Politics and Policy Quarterly* 18(2): 122-147.
- Carley, S., Baldwin, E.\*, MacLean, L. M., Brass, J. N. 2017. Global Expansion of Renewable Energy Generation: An Analysis of Policy Instruments. *Environmental and Resource Economics* 68(2): 397-440.
- Winner of the 2014 Best Paper Award for Research in Comparative Policy Analysis, honored by the Association of Public Policy Analysis and Management and the International Comparative Policy Analysis Forum.
- Carley, S., Nicholson-Crotty, S., Miller, C.\* 2017. Adoption, Reinvention, and Amendment of Renewable Portfolio Standards in the American States. *Journal of Public Policy* 37(4): 1-28.
- Baldwin, E.\*, Carley, S., Brass, J. N., MacLean, L. M. 2017. Global renewable energy policy: A comparative analysis of countries by economic development status. *Journal of Comparative Policy Analysis* 19(3): 277-298.
- Davies, L. L., Carley, S. 2017. Emerging shadows in national solar policy? Nevada's Net Metering Transition in Context. *The Electricity Journal*.
- Krause, R., Lane, B., Carley, S., Sperl J.\*, Graham, J. 2016. Assessing the Demand for Electric Vehicles under Future Cost and Technological Scenarios. *International Journal of Sustainable Transportation* 10(8): 742-751.

- Clark-Sutton, K.\*, Siddiki, S., Carley, S., Wanner, C.\*, Rupp, J., Graham, J.D. 2016. Plug-in electric vehicle readiness: Rating cities in the United States. *The Electricity Journal* 29(1): 30-40.
- Carley, S. 2016. Energy programs of the American Recovery and Reinvestment Act of 2009. *Review of Policy Research* 33(2): 201-223.
- Carley, S. 2016. The American Recovery and Reinvestment Act of 2009: What have we learned? *Review of Policy Research* 33(2): 119-123.
- Zirogiannis, N., Alcorn, J.\*, Rupp, J., Carley, S., Graham, J. 2016. State regulation of unconventional gas development in the U.S.: An empirical evaluation. *Energy Research and Social Science* 11:142-154.
- Nicholson-Crotty, S., Carley, S. 2016. Effectiveness, Implementation Capacity, and Policy Diffusion: Or, "Can We Make that Work for Us?" *State Politics and Policy Quarterly* 16(1), 78-97.
- Paydar, N.\*, Schenk, O., Alcorn, J.\*, Bowers, A., Carley, S., Rupp, J., Graham, J.D. 2015. The Effect of Community Reinvestment Funds on Local Acceptance of Unconventional Gas Development. *Economics of Energy & Environmental Policy* 15(1): 1-26.
- Esposito, D.\*, Rupp, J., Carley, S. 2015. Interaction of risks associated with natural gas and renewable based electricity. *The Electricity Journal* 28(8): 69-84.
- Siddiki, S., Dumortier, J., Curley, C., Carley, S., Krause, R. 2015. Regulating for Innovation and Technology Adoption: The Case of Plug-In Vehicles. *Review of Policy Research* 32(6): 649-674.
- Warren, D.\*, Wendling, Z.\*, Bower-Bir, J.\*, Fields, H.\*, Richards, K., Carley, S., Rubin, B. 2015. Estimating State and Sub-State Economic Effects of a Carbon Dioxide Tax Policy: An Application of a New Multi-Region Energy-Economy Econometric Model. *Regional Science, Policy and Practice* 7(3): 119-139.
- MacLean, L., Brass, J., Carley, S., El-Arini, A.\*, Breen, S.\* 2015. Democracy and the distribution of NGOs promoting renewable energy in Africa. *Journal of Development Studies* 51(6): 725-742.
- Dumortier, J., Siddiki, S., Carley, S., Cisney, J.\*, Krause, R., Lane, B., Rupp, J., Graham, J. 2015. Effects of providing total cost of ownership information on consumers' intent to purchase a hybrid or plug-in electric vehicle. *Transportation Research Part A: Policy and Practice* 72: 71-86.
- Carley, S., Nicholson-Crotty, S., Fisher, E.\* 2015. Capacity, Guidance, and the Implementation of the American Recovery and Reinvestment Act. *Public Administration Review* 75(1): 113-125.
- Carley, S., Hyman, M.\* 2014. The American Recovery and Reinvestment Act: Lessons from Energy Program Implementation Efforts. *State and Local Government Review* 46(2): 140-147.
- Baldwin, E.\*, Brass, J., Carley, S., MacLean, L. 2014. Issues of scale in distributed generation electrification for rural development. *WIRES: Energy and Environment*.
- Warren, D.\*, Carley, S., Krause, R., Rupp, J., Graham, J. 2014. Predictors of attitudes toward carbon capture and storage using data on world views and CCS-specific attitudes. *Science and Public Policy*.
- Krause, R., Carley, S., Warren, D.\*, Rupp, J., Graham, J. 2014. Not Under My Backyard: Geographic proximity and public acceptance of CCS facilities. *Risk Analysis* 34(3): 529-540.

Wendling, Z. A.\*, Attari, S. Z., Carley, S., Krause, R. M., Warren, D.\*, Rupp, J., Graham, J. D. 2013. On the importance of strengthening moderate beliefs in climate science to foster support for immediate action. *Sustainability* 5(12): 5153-5170.

Krause, R., Carley, S., Lane, B., Graham, J. 2013. Perception and Reality: Public Knowledge of Plug-in Electric Vehicles. *Energy Policy* 63: 443-440.

Lane, B., Messer, N.\*, Hartman, D.\*, Carley, S., Krause, R., Graham, J. 2013. Government promotion of the electric car: Risk management or industrial policy? *European Journal of Risk Regulation* 2: 227-245.

Carley, S., Krause, R., Lane, B. Graham, J. 2013. Intent to purchase a plug-in electric vehicle: A survey of early impressions in large US cities. *Transportation Research Part D: Transport and Environment* 18: 39-45.

Brass, J., Carley, S., MacLean, L., Baldwin, E.\* 2012. Power for development: An analysis of on-the-ground experiences of distributed generation in the developing world. *Annual Review of Environment and Resources* 37: 107-136.

Carley, S., Browne, T.\* 2012. Innovative US Energy Policy: A review of states' policy experiences. *WIREs: Energy and Environment* 00: 1-19.

Carley, S., Miller, C.\* 2012. Regulatory stringency and policy adoption: Reassessment of renewable portfolio standards. *Policy Studies Journal* 40(4): 730-756.

Carley, S., Krause, R., Warren, D.\*, Rupp, J., Graham, J. 2012. Early public impressions of terrestrial CCS in a coal-intensive state. *Environmental Science & Technology* 46: 7086-7093.

Gaul, C.\*, Carley, S. 2012. Solar set asides and renewable energy certificates: Early lessons from North Carolina's experience with its Renewable Portfolio Standard. *Energy Policy* 48: 460-469.

Carley, S., Andrews, R. L. 2012. Creating a sustainable U.S. electricity sector: The question of scale. *Policy Sciences* 45(2): 97-121.

Carley, S. 2012. Energy demand-side management: New perspectives for a new era. *Journal of Policy Analysis and Management* 31(1): 6-32.

Carley, S., Brown, A., Lawrence, S. 2012. Economic development and energy: From fad to a sustainable discipline? *Economic Development Quarterly* 26(2): 111-123.

Carley, S. 2012. National clean energy standards: Experience from the states. *Review of Policy Research* 29(2): 301-307. Originally printed in *SPEA Insights*, July 2011.

Carley, S. 2011. Decarbonization of the U.S. electricity sector: Are state energy policy portfolios the solution? *Energy Economics* 33(5): 1004-1023.

Carley, S. 2011. Normative dimensions of sustainable energy policy. *Ethics, Policy & Environment* 14(2): 211-229.

Carley, S. 2011. The era of state energy policy innovation: A review of policy instruments. *Review of Policy Research* 28(3): 265-294.

Carley, S., Lawrence, S., Brown, A., Nourafshan, A.\*, Benami, E.\* 2011. Energy-Based Economic Development. *Renewable and Sustainable Energy Reviews* 15(1): 282-295.

Carley, S. 2010. Historical analysis of U.S. electricity markets: Reassessing carbon lock-in. *Energy Policy* 39(2): 720-732.

Carley, S. 2009. Distributed generation: An empirical analysis of primary motivators. *Energy Policy* 37(5): 1648-1659.

Carley, S. 2009. State renewable energy electricity policies: An empirical evaluation of effectiveness. *Energy Policy* 37(8): 3071-3081.

#### **LAW JOURNAL PUBLICATIONS**

Carley, S., Messer, N.\* Graham, J. 2012. Innovation in the Auto Industry: The Role of the U.S. Environmental Protection Agency. *Duke Environmental Law and Policy Forum* 21: 367-399.

Carleyolsen, S. 2006. Tangled in the Wires: An Assessment of the Existing U.S. Renewable Energy Legal Framework. *Natural Resources Journal* 46 (3): 759-792.

#### **BOOK REVIEWS**

Carley, S., Graff, M.\* 2018. Review of “Climate and Clean Energy Policy: State Institutions and Economic Implications.” *American Review of Public Administration* 48(5).

#### **PEER-REVIEWED POLICY AND BUSINESS REPORTS**

Carley, S., Duncan, D., Graham, J. D., Siddiki, S., Ziropiannis, N. 2017. “A Macroeconomic Study of Federal and State Auto Regulations with Recommendations for Analysts, Regulators, and Legislators.”

Carley, S., Davies, L. 2016. “Nevada’s Net Energy Metering Experience: The Making of a Policy Eclipse?” Brookings Institution Report.

Carley, S., Duncan, D., Esposito, D.\*, Graham, J. D., Siddiki, S., Ziropiannis, N., 2016. “Rethinking Auto Fuel Economy: Technical and Policy Suggestions for the 2016-17 Midterm Reviews.”

Carley, S., Jasinowski, J., Glassley, G.\*, Strahan, P.\*, Attari, S., Shackelford, S. October 2014. “Success Paths to Sustainable Manufacturing.”

School of Public and Environmental Affairs, 2011. “Plug-in Electric Vehicles: A Practical Plan for Progress.” The report of an expert panel [Contributing author].

#### **POLICY REPORTS AND WHITE PAPERS**

Indiana University Public Policy Institute, February 2012. “An environmentally sound energy policy: One key to Indiana’s economic future.” Policy brief prepared for Indiana policymakers by the Indiana Policy Choices Energy and Environment Commission [Commission member and contributing author].

Carley, S., Hyman, M.\* The “Grand Experiment:” An early review of energy-related American Recovery and Reinvestment Act Efforts. *PERI Working Paper Series Report* 338.

Carley, S., Desai, S., Bazilian, M., Kammen, D. 2012. Energy-based economic development: Prioritizing opportunities for developing countries. *FEEM Working Paper* 25.2012.

Baldwin, L.\*, Carley, S., Gardner, W.\*, June 2011. “Demand-side Management and Energy Efficiency in Indiana: A Comparison of Policy Instruments.” Policy brief prepared for the Indiana Utility Regulatory Commission.

The Nicholas Institute, 2009. “An Evaluation of Utah’s Greenhouse Gas Reduction Options.” Technical policy report prepared for the state of Utah. [Contributing researcher].

Carleyolsen, S., Voss, S., 2006. “Recommendations for the Governor’s Taskforce on a Wisconsin Bioindustry Strategy.” White Paper prepared for the Wisconsin’s Bioindustry Consortium Taskforce.

Carleyolsen, S., Rude, J., Jenkins, A., 2006. “IGCC: A Cost-Benefit Analysis.” White Paper prepared for the Wisconsin Public Service Commission and the Wisconsin IGCC Governor’s Taskforce.

Carleyolsen, S., Meyer, T., Scott, I., Rude, J., 2005. “Estimating Economic Value of Jefferson County Parks, Trails, and Open Space.” White Paper given to the Jefferson County Board of Supervisors. Jefferson County, WI.

## **MEDIA PUBLICATIONS**

Carley, S. May 2019. Conducting Research More Efficiently. Blog post, Association of Public Policy Analysis and Management. Available here: <http://www.appam.org/techniques-for-conducting-research-more-efficiently/?CategoryId=4>.

Carley, S. August 2018. A Birthday Celebration for RPS Policies. Blog post, Behavioural and Social Sciences. Available here: <https://socialsciences.nature.com/channels/1745-behind-the-paper/posts/38242-happy-birthday-rps>

Carley, S. October 2017. Op-Ed: Mandates help motorists, economy in the long run. Printed in McClatchy papers.

Carley, S., Konisky, D. March 2017. Op-Ed: Changes to Indiana’s Solar Policy Misguided. *The Herald-Times* (as well as numerous other outlets).

Jasinowski, J., Carley, S. 2014. Op-Ed: Sustainable Manufacturing Makes Cents. *Manufacturing Leadership Journal*.

Carley, S., Hyman, M.\* January 12, 2012. Op-Ed: “Green energy’ is the best route to profitable public investment.” Printed in McClatchy papers, including the Miami Herald, Kansas City Star, and the Sacramento Bee (Also printed in 37 other U.S. news outlets).

## **OTHER PUBLICATIONS**

Carley, S., Engle, C., Konisky, D. Sullivan, S. 2019. Supporting frontline and vulnerable communities in a Green New Deal. *Public Administration Review Bully Pulpit Symposium*.

Carley, S., Konisky, D. 2019. What the “Green New Deal” Means for Business: Protecting At-Risk Communities Can Be Part of a Strong Environmental Strategy. *Harvard Business Review*.

Zirogiannis, N., Carley, S., Duncan, D., Siddiki, S., Graham, J. D. 2018. Fuel Economy Standards and the US Economy. *Insight into Manufacturing Policy* 2, 1-5.

Carley, S. January 2017. How states are grappling with solar panels, net energy metering, and the evolving electric utility industry. Scholars Strategy Network Brief.

Graham, J. D., Cisney, J.\*, Carley, S., Rupp, J. 2014. No time for pessimism about electric cars. *Issues in Science & Technology*.

Carley, 2014. Response to Pollin, R. 2014. A Clean Energy Program for the United States. *Boston Review*. July/August Issue.

Carley, S. 2012. Electric vehicles: Public acceptance, infrastructure and policy. *USAAE Dialogue* 20(3).

Graham, J., Carley, S., Messer, N.\*, Hartman, D.\* February, 2011. Plug-in Electric Vehicles: A Practical Plan for Progress. *SPEA Insights*.

Carley, S. May, 2011. National clean energy standards: Experience from the states. *SPEA Insights*.

#### **SELECTED WORKS IN PROGRESS**

Wendling, Z.\*, Warren, D.\*, Rubin, B., Carley, S., Richards, K. An Energy-Economy Econometric Model for Conducting State-Level Energy Policy Analysis. Resubmitted to *Economic Development Quarterly*.

Bergquist, P.\*, Ansolabehere, S., Carley, S., Konisky, D. Backyard voices: Community perceptions of large-scale energy transmission infrastructure. Resubmitted to *Energy Research & Social Science*.

Konisky, D., Ansolabehere, S., Carley, S. Examining the role of NIMBYism in public acceptance of energy infrastructure. Revise and resubmit at *Public Opinion Quarterly*.

Carley, S., Konisky, K., Land, N.\* Energy, NIMBYism, and public opinion: A review of three decades of literature. Revise and resubmit at *Environmental Research Letters*.

Carley, S., Konisky, D. A just transition and frontline communities: A review of the literature. *Manuscript under review*.

Beppler, R.\*, Matisoff, D., Carley, S. Identifying barriers to the widespread deployment of dynamic electricity pricing. *Manuscript under review*.

Ehrschwender, D.\*, Siddiki, S., Carley, S., Nicholson-Crotty, S. Socio-technical transition in American cities: A study of transportation electrification. *Manuscript under review*.

Ross, J., Carley, S. Efficient Siting of Nuisance Facilities Under Regulatory and Fiscal Decentralization: Empirical Evidence from the Effect of Political Borders on Wind Farms Location. *Working paper*.

Siddiki, S., Krause, R., Sawyer, A.\*, Carley, S., Nicholson-Crotty, S. Comparing knowledge, perceptions, and consumer interest in plug-in electric vehicles in U.S. cities between 2011 and 2017. *Working paper*.

Atiq, Z.\*, Carley, S., Konisky, D. Explaining public perceptions toward natural gas pipelines. *Working paper*.

#### **INVITED TALKS, LECTURES, WEBINARS, PANEL PRESENTATIONS, OR CONFERENCE PRESENTATIONS**

2019: Indiana State Bar Association, Bloomington, IN; Congressional Research Service, Washington, D.C.; Department of Energy, Solar Energy Technologies Office, Washington, D.C.; School of Public Policy,



- University of Maryland, College Park, MD; John Glenn College of Public Affairs, The Ohio State University, Columbus, OH; Renewable Energy Policy Initiative Workshop, University of Michigan, Ann Arbor, Michigan; Association for Public Policy Analysis and Management (APPAM) conference; U.S. Association of Energy Economics (USAEE) conference.
- 2018: NU Searle-Purdue Schnatter Center Energy Research Roundtable, Chicago, IL; Clean Energy States Alliance; Resource Energy Demand Analysis Program, University of Wisconsin-Madison, Madison, WI; Center for Local, State, and Urban Policy, University of Michigan, Ann Arbor, Michigan; Strategic Studies Fellows Program, Kelley School of Business, Indiana University, Bloomington, Indiana; APPAM; USAEE; Energy Policy Research Conference; Midwest Political Science Association (MPSA) conference; Association for Public Policy Analysis and Management International Conference.
- 2017: Innovation, Property Rights, and the Structures of Energy, Property and Environment Research Center (PERC), Bozeman, MT; Environmental Protection Agency, Ann Arbor; Environmental Protection Agency, Washington D.C.; Electricity Dialogue, Northwestern University; Association of Public Policy Analysis and Management Webinar, Washington D.C.; Workshop on Durability and Adaptability in Energy Policy, Resources for the Future; Earth and Mineral Sciences Energy Institute, Pennsylvania State University; USAEE; APPAM.
- 2016: 2016 Austin Electricity Conference, University of Texas; U.S. Association of Energy Economics, dual plenary session on Transportation; South Carolina Journal of International Law and Business Symposium; University of Texas at Austin, Regional Challenges and Opportunities in Energy Transformations Workshop; APPAM; USAEE; MPSA.
- 2015: Panel on National Science Foundation funding, Indiana University; U.S. Association of Energy Economics, session on Energy Economics Education; Workshop on Manufacturing and Public Policy; Mini University, Indiana University; Richard G. Lugar Center for Renewable Energy; University of Utah, S.J. Quinney College of Law, 20<sup>th</sup> Annual Stegner Symposium; University of North Carolina at Chapel Hill, Odum Institute; USAEE; APPAM.
- 2014: Kelley School of Business, Indiana University; Martin School of Public Policy and Administration, University of Kentucky; Ford School of Public Policy, University of Michigan; APPAM.
- 2013: ARPA-E; Centre for Energy Economics and Policy, ETH Zurich; Global Mini-Conference, Indiana University; Energy Student Leaders Association, Indiana University; Energy and Climate Seminar Series, Georgetown University; International Public Affairs Association, Indiana University; 13<sup>th</sup> Annual Association of SPEA Ph.D. Students Conference, Indiana University; Kelley School of Business Renaissance Week, Indiana University; Energy systems in Transition Conference; Transatlantic Policy Consortium conference; USAEE; APPAM.
- 2012: Center for Local, State, and Urban Policy, University of Michigan; School of Public and Environmental Affairs Dean's Council Meeting, Indiana University; Kelley School of Business Renaissance Week, Indiana University; Policy Lecture Series, UNC-Chapel Hill Department of Public Policy; APPAM; USAEE.
- 2011: Mini University, Indiana University; Ph.D. Student Research Seminar, School of Public and Environmental Affairs, Indiana University; APPAM; American Political Science Association; International Conference on Environmental, Cultural, Economic and Social Sustainability.
- 2010: Ph.D. Student Research Seminar, School of Public and Environmental Affairs, Indiana University; Ph.D. Student Research Seminar, School of Public and Environmental Affairs, Indiana University; University Research Day, University of North Carolina at Chapel Hill; Carolina Institute for the Environment Board of Visitors, University of North Carolina at Chapel Hill; APPAM; USAEE; SPEA-Speyer Workshop; Solar Energy Research Center's conference.
- 2009: APPAM
- 2007: RTEC Sustainable Energy Symposium
- 2006: Wisconsin's Bioindustry Consortium Taskforce, Madison, WI.
- 2005: Jefferson County Board of Supervisors, Jefferson County, WI; Upper Midwest Regional Planning Conference.

### **PANEL CHAIR OR MODERATOR:**

- 2019: O'Neill D.C. Career Catalyst; O'Neill SPEA Wider World Conference; Association for Public Policy Analysis and Management conference
- 2018: Midwest Political Science Association conference; Association for Public Policy Analysis and Management International Conference; Association for Public Policy Analysis and Management conference; U.S. Association of Energy Economics conference
- 2017: Environmental Politics & Governance conference; Association for Public Policy Analysis and Management conference; U.S. Association of Energy Economics conference
- 2016: Midwest Political Science Association conference; U.S. Association of Energy Economics annual conference; Association for Public Policy Analysis and Management conference
- 2015: U.S. Association of Energy Economics conference; Association for Public Policy Analysis and Management conference
- 2014: Association for Public Policy Analysis and Management conference
- 2013: Association for Public Policy Analysis and Management conference; International Public Affairs Association conference; U.S. Association of Energy Economics conference
- 2011: U.S. Association of Energy Economics conference; Association for Public Policy Analysis and Management conference
- 2010: Association for Public Policy Analysis and Management conference
- 2006: Wisconsin Public Utility Institute conference

### **GUEST SEMINAR PRESENTATIONS AT INDIANA UNIVERSITY**

- 2019: SPEA, E574 Energy Systems
- 2016: SPEA, Experience Day; SPEA, V680 Research Design
- 2015: SPEA, Experience Day; SPEA, E574 Energy Markets and Analysis; SPEA, V680 Research Design; Statistics, S690 Statistical Consulting
- 2014: SPEA, V680 Research Design
- 2013: SPEA, V680 Research Design; SPEA, Experience Day; Kelley School of Business, L302 Sustainability Law & Policy.
- 2012: SPEA, Experience Day.
- 2011: SPEA, V680 Research Design; SPEA, V669 Economic Development; SPEA, V160 National and International Policy; SPEA, Experience Day.
- 2010: SPEA, Advanced Math Camp

### **GRANTS**

“USAEE Proposal for Ph.D. Day” PI. Alfred P. Sloan Foundation. \$10,000. 2018.

“Toward the Diffusion of Sustainable Technologies: The Case of Electric Vehicles” Co-PI with Sean Nicholson-Crotty and Saba Siddiki. National Science Foundation. \$184,996. 2016-2018.

“The Siting of Energy Infrastructure: Public Perceptions and Public Finance Impacts” Co-PI with David Konisky and Steven Ansolabehere. Alfred P. Sloan Foundation. \$259,900. 2016-2018.

“The U.S. Energy and Climate Transition: Aggregated Impacts of Policy on Vulnerable Populations” PI with Co-PIs Tom Evans and David Konisky. Indiana University Collaborative Research Grant. Office of the Vice Provost of Research, Indiana University. \$63,437. 2016-2017.

“Consumer Willingness to Pay for Sustainability: The Case of the Brewing Industry” PI. Office of the Vice Provost of Research Award for Research Methods and Collaboration, Indiana University. \$4,942. 2016.

“Study of the macro-economic impact of the light-duty vehicle corporate average fuel economy, greenhouse gas and zero-emission vehicle standards: Phases II and III” Co-PI with John Graham, Denvil Duncan, Saba Siddiki, and Nikos Ziropiannis. Alliance for Automobile Manufacturers. \$590,000. 2016-2017.

“Study of the macro-economic impact of the light-duty vehicle corporate average fuel economy, greenhouse gas and zero-emission vehicle standards: Phase I” Co-PI with John Graham, Denvil Duncan, and Saba Siddiki. Alliance for Automobile Manufacturers. \$202,723. 2015-2016.

“Informing Energy Policy Choices in Indiana using an Econometric and Technology Model.” PI with Barry Rubin. Faculty Research Support Program, Indiana University. \$72,341. 2012-2013.

“Power for Development: Sustaining Small-Scale Electricity Implementation in Africa.” PI with Jennifer Brass and Lauren MacLean. Faculty Research Support Program, Indiana University. \$74,484. 2012-2013.

“Exploratory Study of Risks, Benefits, and Costs of DEF and Alternatives.” PI with John Graham. Navistar. \$89,509. 2011-2012.

“NGO Involvement in Sustainable Energy Programs for International Development.” PI with Jennifer N. Brass. Mitsui Environment Fund, Mitsui & Co., Ltd. \$59,706. 2011-2012.

“Collaborative Provision of Low-Carbon Distributed Energy in Developing Countries.” PI with Jennifer N. Brass. Sustainability Research Development Grant, Indiana University Office of Sustainability. \$15,000. 2011-2012.

“Energy-based Economic Development.” Co-PI with Adrienne Brown (PI) and Sara Lawrence (PI). RTI International R&D Grant, RTI International. \$63,000. 2009-2010.

Conference Travel Grant. GPSF Travel Award, University of North Carolina at Chapel Hill. \$400. 2009

Conference Travel Grant Department of Public Policy, University of North Carolina at Chapel Hill. \$600. 2008.

Grant awarded for travel to Ghana, West Africa, to establish an environmental study abroad program for an East coast consortium of colleges. Environmental Studies Grant, Swarthmore College. \$10,500. 2001.

## **HONORS AND AWARDS**

40 Under 40 Award Recipient, Midwest Energy News, 2019.

Campus Catalyst Excellence in Teaching Award, Indiana University Office of Sustainability, 2017.

George I. Treyz Award for Excellence in Economic Analysis, Best Paper Award, Regional Economic Modeling, Inc. 2017.

Most Personable Faculty Award, Student Choice Award, School of Public and Environmental Affairs, Indiana University. 2016.

Best Paper Award for Research in Comparative Policy Analysis, honored by the Association of Public Policy Analysis and Management and the International Comparative Policy Analysis Forum. 2014.

Outstanding Junior Faculty Award, Office of the Vice Provost for Faculty and Academic Affairs and the Office of the Vice Provost for Research, Indiana University-Bloomington. \$14,500 research grant. 2013.

IU Trustees Teaching Award, Indiana University-Bloomington. 2012.

Spot Award, Research Triangle Institute International, RTP, NC. 2009.

Progress Energy Fellow, University of North Carolina at Chapel Hill. 2006-2010.

Future Faculty Fellowship, University of North Carolina at Chapel Hill. 2008.

American Planning Association Best Student Presentation Winner, Upper Midwest American Planning Association Conference. 2005.

Morris Udall Scholar, Swarthmore College. 2002.  
Phillip Barley Memorial Scholar, Swarthmore College. 2002.

#### SELECTED PUBLICITY AND MEDIA MENTIONS

National Public Radio, June 18, 2019. “Going ‘zero carbon’ is all the rage. But will it slow climate change?”  
The Washington Post, April 2, 2019. “The Energy 202: EPA’s own adviser finds Trump’s rollback of car rules could cost jobs.”  
CleanTechnica, March 3, 2019. “We must keep in mind the costs of the Green New Deal to vulnerable communities.”  
Grist, December 12, 2018. “The stinkiest, dirtiest, nastiest renewable energy you never heard of.”  
Esquire, October 11, 2018. “Maybe Consider Paying \$1 More for the Pack of Budweiser.”  
National Public Radio, The Salt, October 13, 2018. “Good News for ‘Green’ Brews: Consumers Say They’ll Pay More for Sustainable Beer.”  
WFHB.org, EcoReport, September 6, 2018.  
Ensia, August 20, 2018. “Minimizing the downsides of the energy transition.”  
Utility Dive, August 16, 2018. “Modernizing renewables mandates is no longer about the megawatts.”  
Science News, May 7, 2018. “Vulnerable communities may be adversely affected by the transition to clean energy.” (Similar study printed in five other news outlets).  
NexusMedia, January 18, 2018. “Coal Country Knows Trump Can’t Save It.”  
How Stuff Works, January 18, 2018. “Germany’s Power Prices go Negative, But Who’s Getting Paid?”  
Convenience Store Decisions, January 19, 2018. “C-Stores Meet New Fuel Demands.”  
Forward Kentucky, November 13, 2017. “Did environmental rules kill mining? For coal country, that’s yesterday’s debate.”  
Science Daily, October 27, 2017. “Efforts to revive coal industry unlikely to work, may slow job growth.” (Similar story printed in Science Newline: Nature & Earth, Common Dreams, IWW Environmental Unionism Caucus, and the Indiana Daily Student)  
Greenwire, August 2017. “EPA gathers consumer data as it rethinks GHG standards.”  
CNBC, Washington Times, March 2017. “IU research shows mileage regulations bring long-term benefits but short-term economy lag.” (Reprinted in over 150 other media outlets).  
Indianapolis Star, March 2017. “Solar energy in crossroads in Indiana” (Reprinted in 24 other sources).  
Inside EVs, March 2016. “U.S. Cities Ranked for Plug-in Electric Car Readiness—Portland takes Top Spot.” Similar news reports appear in Autocarr, Fleet Management Weekly, and Greener Ideal.  
Herald Times, February 19, 2016. “IU Researchers Urge Review of Fuel Economy Standards.”  
WalletHub, July, 2015. “2015 Most & Least Energy-Expensive States.”  
CQ Researcher, April 2015. “Sustainability.”  
Society for Risk Analysis, Press Release, October 30, 2013. “Residents weigh global benefits and local risks in views of climate change measures.” (Reprinted by 289 other media outlets across the country).  
Freakonomics, July 24, 2013. “How Politicians Plug Electric Cars.”  
Indiana Daily Student, April 4, 2013. “Awards granted to outstanding junior faculty.”  
Inside Higher Ed and WAMC, Northeast Radio, Academic Minute, March 14, 2013. “Dr. Sanya Carley, Indiana University—Consumer Attitude and Electric Cars.”  
CBS, January 7, 2013. “American Drivers Not Interested in Electric Cars.”  
International New York Times, International Herald Tribune, January 7, 2013. “Will 2013 be the Year of the Electric Car?”  
New York Times, December 26, 2012. “Car Buyers Lack Interest in Electric Cars, Study Says.”  
Indianapolis Business Journal, January 2, 2013. “Report: Plug-in vehicles slow to spark interest in Indy.”  
WTIU “Weekly Special,” September 15, 2011. “Early Adopters.”  
WTIU News, July 19, 2011. “Next-Generation Electric Vehicle Appears in Bloomington.”  
AOL Autos, February 23, 2011. “Are Obama’s Million EV’s Just Science Fiction?”  
Newswise, August 20, 2010. “Energy-based Economic Development: A Fad of Here to Stay?”

## TEACHING EXPERIENCE

*V674: Energy Economics and Policy* (Graduate level)

School of Public and Environmental Affairs, Indiana University.

Spring 2011, Spring 2012, Spring 2013, Spring 2014, Spring 2015, Spring 2016, Spring 2018

*V600: Capstone* (Graduate level)

School of Public and Environmental Affairs, Indiana University.

Spring 2016, Spring 2018

*V550: Energy Policy Seminar* (Masters and Ph.D. level)

School of Public and Environmental Affairs, Indiana University.

Fall 2015, Fall 2017, Fall 2019

*V450: Research Design* (Undergraduate level)

School of Public and Environmental Affairs, Indiana University.

Fall 2015, Fall 2017, Fall 2018

*E574: Energy Analysis and Markets* (Graduate level)

School of Public and Environmental Affairs, Indiana University.

Fall 2010, Fall 2011, Fall 2013

*V680: Research Design* (Ph.D. level)

Co-instructor, School of Public and Environmental Affairs, Indiana University.

Fall 2011, Fall 2013, Fall 2014, Fall 2015, Fall 2016

*E555: Energy Resources and Policy* (Undergraduate level)

Teaching Fellow, The Department of Public Policy and the Institute for the Environment, University of North Carolina at Chapel Hill.

Spring 2009

*E190H: Honors Freshman Seminar on Energy and Society* (Undergraduate level)

Co-instructor, Institute for the Environment, University of North Carolina at Chapel Hill.

Spring 2009

## PROFESSIONAL SERVICE

### Referee and Reviewer Service:

American Journal of Political Science, Climate Policy, Ecological Economics, Economic Development Quarterly, Energies, Energy Economics, Energy Policy, Energy Journal, Energy Research & Social Science, Environmental and Resource Economics Environmental Practice, Environmental Science & Technology, Ethics, Policy & Environment, Evaluation Review, Geography, Global Environmental Change, International Journal of Business and Economics, IEEE Transactions on Power Systems, Journal of the Association of Environmental and Resource Economists, Journal of Environmental Economics and Management, Journal of Geography and Regional Planning, Journal of Policy Analysis and Management, Journal of Policy History, Journal of Politics, Journal of Public Administration Research and Theory, National Science Foundation, Nature Energy, Nature Climate Change, Nature Sustainability, PLOS One, Policy Sciences, Policy & Society, Policy Studies Journal, Public Administration Review, Publius: The Journal of Federalism, Regulation & Governance, Review of Policy Research, Renewable and Sustainable Energy Reviews, Springer Publishing, SPEA Insights, State and Local Government Review, Sustainability: Science, Practice & Policy, Transportation Letters, Transportation Research Part D: Transport and Environment, Utilities Policy

### Professional, National, and State Service:

Treasurer, Association of Public Policy and Analysis, 2019-present.

Co-editor, *Journal of Policy Analysis and Management*, 2018-present.

Managing Editor, *Journal of Policy Analysis and Management*, 2017-2018.

Peer Review Committee Member, EPA Response Surface Methodology, 2017.

VP for Academic Affairs, U.S. Association of Energy Economics, 2018.

Secretary/Treasurer, U.S. Association of Energy Economics, 2015-2016.  
 Editorial Board, *Energy Research and Social Science*, 2017-2019.  
 Editorial Board, *Public Administration Review*, 2015-present.  
 Executive Committee, Richard G. Lugar Center for Renewable Energy, 2017-present.  
 Editorial Board, *State and Local Government Review*, 2014-2016.  
 Conference student paper judge, U.S. Association of Energy Economics, 2014, 2015, 2017, 2018.  
 Conference poster judge, Association of Public Policy Analysis and Management, 2016-2017.  
 Conference poster judge, U.S. Association of Energy Economics, 2016-2017.  
 Guest editor, Special issue on the American Recovery and Reinvestment Act of 2009, *Review of Policy Research*, 2015-2016.  
 Nominations Committee, U.S. Association of Energy Economics, 2017.  
 Finance Committee, Chair, U.S. Association of Energy Economics, 2015-2016.  
 Legal Affairs Committee, U.S. Association of Energy Economics, 2016.  
 Co-Chair, Sponsorship Committee, U.S. Association of Energy Economics, 2016.  
 Contract Committee, U.S. Association of Energy Economics, 2016.  
 Chair, Natural Resource Security, Energy, and Environmental Policy Conference Program Committee, Association of Public Policy Analysis and Management, 2015-2016.  
 Committee Member, Natural Resource Security, Energy, and Environmental Policy Conference Program Committee, Association of Public Policy Analysis and Management, 2013-2016.  
 Conference Program Committee, U.S. Association of Energy Economics, 2015-2018.  
 Council Member, U.S. Association of Energy Economics, 2014.  
 Presidential Advisor, U.S. Association of Energy Economics, 2013.  
 Academic Affiliate, National Renewable Energy Laboratory, 2013.  
 Member, Policy Choices Energy and Environment Commission, IU Public Policy Institute, 2011-2012.

**University Service:**

Member, Bloomington Faculty Council Research Affairs Committee, 2015-2016.  
 Co-Chair, Energy and the Built Environment, Indiana University, 2013-2016.  
 Advisory Committee, Workshop in Methods, 2013-2016.  
 Member, Academic Initiatives Working Group, Indiana University, 2011-2013.  
 Steering committee, Student Summit on a Green Economy, Indiana University, 2010.

**School Service:**

Program Director, Master of Public Affairs programs, School for Public and Environmental Affairs, Indiana University, 2019-present.  
 Chair, Policy Analysis and Public Finance Faculty Group, 2016-2019.  
 Member, Faculty Hiring Committee, Dean, School for Public and Environmental Affairs, Indiana University, 2018-2019.  
 Member, Faculty Hiring Committee, Social Policy, School for Public and Environmental Affairs, Indiana University, 2018-2019.  
 Promotion and Tenure Committee, Indiana University Northwest, 2017.  
 MPA Curriculum Committee, 2017-2019 (chair 2019-present).  
 Chair, Policy Committee, School for Public and Environmental Affairs, Indiana University, 2015-2016.  
 Ph.D. Public Affairs Program Committee or Reader, School for Public and Environmental Affairs, Indiana University, 2015-2016, 2017.  
 Chair, Environmental Policy Search Committee, School for Public and Environmental Affairs, Indiana University, 2014-2015.  
 Policy Committee, School for Public and Environmental Affairs, Indiana University, 2014-2016.  
 Budgetary Affairs Committee, School for Public and Environmental Affairs, Indiana University, 2014-2016.  
 Faculty Advisor, Energy Student Leaders Association, Indiana University, 2012-present.  
 MPA Selection Committee, School for Public and Environmental Affairs, Indiana University, 2013, 2014.

Environmental Policy Ph.D. Exam Committee, School for Public and Environmental Affairs, Indiana University, 2013-2014.  
Faculty Hiring Committee, Industrial Ecology and Life-Cycle Assessment, School for Public and Environmental Affairs, Indiana University, 2011-2012.  
Faculty Hiring Committee, MPA Program Director, School for Public and Environmental Affairs, Indiana University, 2011-2012.  
Member, Hiring Priorities Committee, Policy Analysis and Public Finance faculty group, School for Public and Environmental Affairs, Indiana University, 2011-2012.  
Faculty Hiring Committee, Energy Policy, School for Public and Environmental Affairs, Indiana University, 2010-2011.  
Committee Member, Energy Concentration, School for Public and Environmental Affairs, Indiana University, 2010-2011.  
Ph.D. Dissertation Committee Member:  
Michelle Graff, 2018; Arthur Ku, 2018; Adam Abelkop, 2017; Yu Zhang, 2017; Jose Iracheta, 2017; Dave Warren, 2017; Sojin Jang, 2017; Jessica Alcorn, 2016; Zach Wendling, 2016; Elizabeth Baldwin, 2015; Shuang Zhao, 2015.  
Ph.D. Program Committee Member, School of Public and Environmental Affairs, Indiana University:  
Laura Helmke-Long, 2018; Michelle Graff, 2017; Arthur Ku, 2017; Zichao Yu, 2016; Michelle Lee, 2016; Yu Zhang, 2014; Jessica Alcorn, 2014; Ben Inskeep, 2013; Naveed Paydar, 2013; Chris Miller, 2012; Elizabeth Baldwin, 2012; Dave Warren, 2011; Zach Wendling, 2011; Shuang Zhao, 2010.  
Honors Undergraduate or Graduate Thesis Committee Member:  
Bailey Decker, Indiana University, 2019; Mason Walther, Indiana University, 2019; Damon Smith, Indiana University, 2015; Chip Gaul, Department of Public Policy, University of North Carolina-Chapel Hill, 2011; Elinor Benami, Department of Economics, University of North Carolina-Chapel Hill, 2010; Rachel Escobar, Depart. of International Studies, University of North Carolina-Chapel Hill, 2009; Jessie Prentice-Dunn, Depart. of Public Policy, University of North Carolina-Chapel Hill, 2007.

#### **PROFESSIONAL MEMBERSHIP**

Association for Public Policy Analysis & Management (APPAM)  
Association of Collegiate Schools of Planning (ACSP)  
Brewers Association (BA)  
Midwest Political Science Association (MPSA)  
International Association of Energy Economists (IAEE)  
United States Association for Energy Economics (USAEE)