

A. Justin Kirkpatrick

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Research Interests

Energy & environmental economics, resource economics, public economics

Appointments

Assistant Professor, Department of Economics, Michigan State University 2019-

Degrees

Ph.D., Environmental Economics

Certificate in College Teaching

Duke University

Advisor: Dr. Lori Benneer

MEM, Environmental Economics and Policy, 2012

Certificate in International Development Policy

Duke University, Nicholas School of the Environment

Advisor: Dr. Lori Benneer

BS, Environmental Policy Analysis and Planning, 2001

University of California, Davis

Advisor: Dr. Paul Sabatier

Peer-Reviewed Publications

Kirkpatrick, A. Justin, and Lori S. Benneer. "Promoting Clean Energy Investment: An Empirical Analysis of Property Assessed Clean Energy." *Journal of Environmental Economics and Management* 68, no. 2 (2014): 357-375.

Sills, Erin O., Diego Herrera, A. Justin Kirkpatrick, Amintas Brandão Jr, Rebecca Dickson, Simon Hall, Subhrendu Pattanayak et al. "Estimating the Impacts of Local Policy Innovation: The Synthetic Control Method Applied to Tropical Deforestation." *PLoS One* 10, no. 7 (2015).

Martin D. Smith, Atle Oglend, A. Justin Kirkpatrick, Frank Asche, Lori S. Benneer, J. Craig, James Nance. "Seafood Prices Reveal Impacts of a Major Ecological Disturbance." *Proceedings of the National Academy of Sciences*, January 30, 2017. DOI: 10.1073/pnas.1617948114.

Sills, Erin, Alexander Pfaff, Luiza Andrade, Justin Kirkpatrick, and Rebecca Dickson. "Investing in local capacity to respond to a federal environmental mandate: Forest economic impacts of the Green Municipality Program in the Brazilian Amazon." *World Development* 129, no. C (2020).

Working Papers

Bryan Bollinger, Ken Gillingham, A. Justin Kirkpatrick, Steven Sexton. "Visibility and Peer Influence in Durable Good Adoption" (in revision, *Marketing Science*)

Sexton, Steven E., A. Justin Kirkpatrick, Robert Harris, Nicholas Muller. "Heterogeneous Environmental and Grid Benefits from Rooftop Solar and the Costs of Inefficient Siting Decisions" *NBER Working Paper* (in revision, *Journal of the Association of Environmental and Resource Economists*)

A. Justin Kirkpatrick. "Estimating Congestion Benefits of Batteries for Unobserved Networks" (last updated November 2019)

A. Justin Kirkpatrick, T. Robert Fetter. "Averting Expenditures and Desirable Goods: Consumer Demand for Bottled Water in the Presence of Fracking" (last updated May 2020)

Bryan Bollinger, Ken Gillingham, **A. Justin Kirkpatrick,** Steven Sexton. "Household Discount Rates and Net Energy Metering Incentives for Rooftop Solar Adoption" for *NBER Economics of Energy Markets 2017* (last updated June 2017)

Other Publications

National Oceanic and Atmospheric Administration. National Marine Fisheries Service, Northeast Fisheries Science Center. "Socio-economic Impact of Outer Continental Shelf Wind Energy Development on Fishing in the U.S. Atlantic." By **A. Justin Kirkpatrick,** Sharon Benjamin, Geret DePiper, Tammy Murphy, Scott Steinback, and Chad Demarest. *OCS Study BOEM 2017-012*. Woods Hole, MA, 2017.

IPBES 2019: The assessment report of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services on Global Assessment of Biodiversity and Ecosystem Services. (Contributing Author)

Teaching

Instructor of Record

EC420: Econometrics (MSU, Fall 2019, Spring 2019)

PUBPOL800K: Statistics Boot Camp (Duke Kunshan University, Summer 2017)

ENV710: Applied Data Analysis for Environmental Science (Duke University, Graduate Professional, Fall 2016) (**3.3/5.0**)

Teaching Assistant

ENV850: Program Evaluation (Duke University, Graduate Professional, Spring 2017) (**3.9/5.0**)

ENV520: Environmental Econ (Duke University, Graduate Professional, Fall I 2015) (**4.5/5.0**)

ENV521: Resource Econ (Duke University, Graduate Professional, Fall II 2015) (**4.5/5.0**)

EOS201: Environmental Science and Policy (Duke University, Undergraduate, Spring 2016)

LAW235: Environmental Law (Duke University School of Law, Fall 2011)

LAW635: Climate Change and the Law (Duke University School of Law, Spring 2011)

Research Assistant

Associate in Research: R. Newell, M. Smith, M. Doyle, L. Benneer (Duke University, 2012)

Research Assistant: P. Sabatier (UC Davis; 1998-1999)

Conference and Workshop Presentations

Research Presentations

2020 Association of Environmental and Resource Economists (AERE) Annual Summer Conference - *Environmental Impacts of Energy Storage* (solo author)

2020 Association of Environmental and Resource Economists (AERE) Annual Summer Conference - *Estimating Congestion Benefits of Batteries for Unobserved Networks: A Machine Learning Approach* (solo author)

- 2020 Invited seminar: Western Michigan University. *Estimating Congestion Benefits of Batteries for Unobserved Networks: A Machine Learning Approach* (solo author)
- 2019 International Workshop on Empirical Methods in Energy Economics (EMEE) - *Estimating Congestion Benefits of Batteries for Unobserved Networks* (solo author)
- 2019 Midwest Energy Fest (University of Chicago) - *Estimating Congestion Benefits of Batteries for Unobserved Networks* (solo author)
- 2019 The Workshop in Environmental Economics and Data Science (TWEEDS) - *Peer Effects In Rooftop Solar Adoptions* (new title: *Visibility and Peer Influence in Durable Good Adoption*) (with Bryan Bollinger, Ken Gillingham, and Steve Sexton)
- 2018 Resources for the Future and Alfred P. Sloan Foundation Energy Research Insights for Decisionmaking - *Estimating Congestion Benefits of Batteries for Unobserved Networks* (solo author)
- 2018 Center for Environmental and Resource Economic Policy (CEnREP) Camp Resources - *Estimating Congestion Benefits of Batteries for Unobserved Networks* (solo author)
- 2018 World Congress of Environmental Economics - *Household Discount Rates and Net Energy Metering Incentives for Rooftop Solar Adoption* (with Bryan Bollinger, Ken Gillingham, and Steve Sexton)
- 2018 American Economic Association (AEA) Allied Social Sciences Associations Annual Meeting - *Siting Solar PV Capacity to Maximize Environmental Benefits* (with Steve Sexton, Robert Harris, and Nicholas Muller)
- 2017 UC Santa Barbara Occasional Workshop - *Siting Solar PV Capacity to Maximize Environmental Benefits* (with Steve Sexton, Robert Harris, and Nicholas Muller)
- 2017 Heartland Environmental and Resource Economics Workshop at Illinois (UIUC) - *Energy Insecurity and Red-lined America* (solo author)
- 2017 Association of Environmental and Resource Economists (AERE) Annual Summer Conference - *Visibility and Peer Effects in Residential Solar Photovoltaics* (with Steve Sexton, Bryan Bollinger, and Ken Gillingham)
- 2017 Association of Environmental and Resource Economists (AERE) Annual Summer Conference - *Averting Expenditures and Desirable Goods: Consumer Demand for Bottled Water in the Presence of Fracking* (with T. Rob Fetter)
- 2017 Gulf of Mexico Alliance All Hands Meeting - *Seafood Prices Reveal Impacts of Gulf Hypoxia* (with Martin Smith, A. Oglund, F. Asche, L. Benneer, K. Craig, J. Nance)
- 2017 American Economic Association (AEA) Allied Social Sciences Associations Annual Meeting - *Averting Expenditures and Desirable Goods: Consumer Demand for Bottled Water in the Presence of Fracking* (with T. Rob Fetter)
- 2016 Center for Environmental and Resource Economic Policy (CEnREP) Camp Resources - *Averting Expenditures and Desirable Goods: Consumer Demand for Bottled Water in the Presence of Fracking* (with T. Rob Fetter)
- 2016 National Bureau of Economic Research (NBER) Economics of Energy Markets Conference - *Household Demand for Solar PV and Price Discriminating Subsidies* (with Bryan Bollinger, Ken Gillingham, and Steve Sexton)
- 2014 International Institute of Fisheries Economics and Trade (IIFET) Biennial Conference - *The Economic Impact of Offshore Wind Development in the NW (US) Atlantic Fisheries*

- 2014 Mid-Atlantic Fisheries Management Council - *Who Fishes There? A baseline of fishing to inform offshore wind siting.*
- 2012 APPAM Fall Research Conference - *Closing the “Energy-Efficiency Gap”: An Empirical Analysis of Property Assessed Clean Energy*
- 2012 AABPA Conference (poster presentation)

Panel Chair

- 2014 IIFET Conference, Panel title: *Management: Regulation and Allocation*

Awards and Fellowships

Fellowships

- National Bureau of Economic Research (NBER) / Alfred P. Sloan Foundation Pre-Doctoral Fellowship in Energy Economics (2018-2019)
- Duke University Ottis Greene Fellow (2018-2019)
- Duke Environmental Economics Doctoral Scholars Fellowship (DEEDS) (2017-2018)
- Duke University Energy Initiative Fellow (2016-2019)

Awards

- AAEA Quality of Discovery Award (2018) for “Seafood Prices Reveal Impacts of a Major Ecological Disturbance.” *PNAS*
- AABPA Mary Katherine Kubat Award Finalist (2012)

Professional Service

Referee

- Nature Communication*; *Journal of the Association of Environmental and Resource Economists* (JAERE); *Journal of Environmental Economics and Management* (JEEM)

Grant Review

- Alfred P. Sloan Foundation; NOAA Saltonstall-Kennedy Marine Resource Economics Grant Program

Associations

- American Economic Association (AEA)
- Association of Environmental and Resource Economists (AERE)
- Association of Agricultural and Applied Economics (AAEA)
- International Institute of Fisheries Economics and Trade (IIFET)
- North American Association of Fisheries Economics (NAAFE)

Industry Experience

- Freelance Consultant, TerraCarbon**, Peoria, IL. (2014-2018)
- Economist, NOAA Fisheries**, Northeast Fisheries Science Center, Social Sciences Branch, Woods Hole, MA. (2012-2014)
- Freelance Consultant, Rhodium Group**, New York, NY. (2012)
- Consulting Intern, Ministério Público do Estado do Rio de Janeiro**, Rio de Janeiro, Brasil. (May-Aug 2011)

Freelance Environmental Consultant, Douglas Herring and Associates, El Cerrito, CA. (2004-2009)

Last updated August 21, 2020