

## 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*, 2019

*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

Soren Anderson and **A. Justin Kirkpatrick**. “Distributional Consequences of Policies for Electric Heat Conversion” (forthcoming, *Journal of the Association of Environmental and Resource Economists*, April 2024)

Bryan Bollinger, Kenneth Gillingham, **A. Justin Kirkpatrick**, Steven Sexton. “Visibility and Peer Influence in Durable Good Adoption” *Marketing Science* 41(3):453-476 (2022)

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” *Journal of the Association of Environmental and Resource Economists* 8, no. 6 (2021)

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).

**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.

## Working Papers

Bryan Bollinger, Ken Gillingham, **A. Justin Kirkpatrick**. “Valuing Solar Subsidies” (last updated May 2024)

**A. Justin Kirkpatrick**. “Estimating Congestion Benefits of Batteries for Unobserved Networks” (last updated January 2024)

**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; resting)

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

EC450: Environmental Economics (MSU, Spring 2023)

EC420: Econometrics (MSU, Fall 2019, Spring 2020, Spring 2021, 2022, 2023, Summer 2022, Fall 2023)

SSC442: Data Analytics (MSU, Spring 2021, Spring 2022, Fall 2023)

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

- 2023 Invited Seminar - CU Boulder - *Valuing Solar Subsidies* (with Bryan Bollinger and Ken Gillingham)
- 2023 NBER Distributional Impacts of New Energy Policy - *Distributional Consequences of Policies for Electric Heat Conversion* (with Soren Anderson)
- 2023 NBER Distributional Impacts of New Energy Policy - *Valuing Solar Subsidies* (with Bryan Bollinger and Ken Gillingham)
- 2023 NBER Spring EEE - *Valuing Solar Subsidies* (with Bryan Bollinger and Ken Gillingham)
- 2023 Marketing and Sustainability (Stanford GSB) - *Valuing Solar Subsidies* (with Bryan Bollinger and Ken Gillingham)
- 2022 Heartland Environmental and Resource Economics Workshop at Illinois (UIUC) - *Heterogeneous Effects of Informational Energy Audits and the Split Incentive for Renters and Owners* (with Soren Anderson)
- 2022 Invited seminar: UC Davis - *Valuing Solar Subsidies* (with Bryan Bollinger, Ken Gillingham, and Steve Sexton)
- 2022 American Economic Association Annual Meeting - Session Organizer and Presenter - *Estimating Congestion Benefits of Batteries for Unobserved Networks: A Machine Learning Approach* (solo author)
- 2022 American Economic Association Annual Meeting - AERE Session - *Valuing Solar Subsidies* (with Bryan Bollinger, Ken Gillingham, and Steve Sexton)
- 2021 Association of Environmental and Resource Economists (AERE) Annual Summer Conference - *Energy Insecurity in Redlined America* (solo author)
- 2020 Southern Economic Association Annual Conference (SEA) - *Valuing Solar Subsidies* (with Bryan Bollinger, Ken Gillingham, and Steve Sexton)
- 2020 The Workshop in Environmental Economics and Data Science (TWEEDS) - *Estimating Congestion Benefits of Batteries for Unobserved Networks: A Machine Learning Approach* (solo author)
- 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*
- 2022 AEA Conference, Panel title: *Economics of Energy Storage* (Organized, proposed, and executed sponsored AEA session)
- 2023 AERE Conference, Panel title: *Renewables II*

## 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

*Journal of Political Economy: Micro; Nature Communication; Nature Climate Change; Journal of the Association of Environmental and Resource Economists (JAERE); Journal of Environmental Economics and Management (JEEM); Marketing Science; Resource and Energy Economics; Energy Policy; Time-sharing Experiments for the Social Sciences; Contemporary Economic Policy*

### 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)

Transportation and Public Utilities Group (TPUG)

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 May 8, 2024