

Kenneth Gillingham

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School of Forestry & Environmental Studies
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Current Appointments

Yale University, *Associate Professor of Economics* (without tenure), July 2017-present

School of Forestry & Environmental Studies
Secondary appointment, Department of Economics
Secondary appointment, School of Management

National Bureau of Economic Research, *Faculty Research Fellow*, May 2015-present

RWI Research Network, *Research Fellow*, October 2016-present

CESifo Research Network, *Affiliate*, April 2017-present

Research Interests

Environmental & Energy Economics, Industrial Organization, Public Economics, Empirical Methods, Technological Change, Transportation Economics, Energy & Climate Policy Modeling.

Education

Stanford University, Ph.D., Management Science & Engineering and Economics, 2011

Fields: Public & Environmental Economics, Industrial Organization, Econometrics

Stanford University, M.S., Statistics, 2010

Stanford University, M.S., Management Science & Engineering (Economics & Finance), 2006

Dartmouth College, A.B., Economics and Environmental Studies (minor in Earth Sciences), 2002

Previous Appointments

UC Berkeley Energy Institute at Haas, Visiting Scholar, Feb 2018

Stanford University Economics Department, Visiting Scholar, Jan 2018

Yale University, Assistant Professor, 2011-2017

White House Council of Economic Advisers, Senior Economist, 2015-2016

University of Chicago Energy Policy Institute (Harris/Booth), Visiting Scholar, 2014

Indiana University Kelley School of Business, Visiting Scholar, 2013

California Air Resources Board, Economist (Graduate Student Assistant), 2011

Stanford University Economics Department, Research Assistant, 2008-2011

Stanford University Energy Modeling Forum, Research Assistant, 2008

Stanford University Precourt Energy Efficiency Center, Research Assistant, 2004-2006
Fulbright New Zealand, Fulbright Fellow, University of Auckland, 2007
White House Council of Economic Advisers, Fellow for Energy & Environment, 2005
Resources for the Future, Research Assistant, 2002-2004
Joint Global Change Research Institute (PNNL), Research Assistant, 2001
Dartmouth College, Research Assistant, 1998-2002

Research

Selected Working Papers

Gillingham, K. and P. Huang, Is Abundant Natural Gas a Bridge to a Low-carbon Future or a Dead-end? resubmitted to *The Energy Journal*.

Gillingham, K. and A. Munk-Nielsen, A Tail of Two Tails: Commuting and the Fuel Price Response in Driving, in revision for *Journal of Urban Economics*.

Bollinger, B., J. Burkhardt, and **K. Gillingham**, Peer Effects in Water Conservation: Evidence from Consumer Migration, In Review.

Bollinger, B., **K. Gillingham**, S. Lamp, T. Tsvetanov, Word-of-Mouth and Installed Base Effects in Durable Good Adoption, In Review.

Bollinger, B. and **K. Gillingham**, Making Pro-Social Social: The Effectiveness of Online and Offline Social Communication, In Review.

Archsmith, J., **K. Gillingham**, C. Knittel, and D. Rapson, Attribute Substitution in Household Vehicle Portfolios.

Langford, R. and **K. Gillingham**, Quantifying the Benefits of the Introduction of the Hybrid Electric Vehicle.

Bento, A., **K. Gillingham**, and K. Roth, The Effect of Fuel Economy Standards on Vehicle Weight Dispersion and Accident Fatalities.

K. Gillingham and M. Obstfeld, Time-Consistent Benefit-Cost Analysis with Declining Discount Rates.

Bollinger, B. and **K. Gillingham**, Learning-by-Doing in Solar Photovoltaic Installations.

Gillingham, K., Selection on Anticipated Driving and the Consumer Response to Changing Gasoline Prices.

Gillingham, K. and B. Bollinger, Social Learning and Solar Photovoltaic Adoption: Evidence from a Field Experiment.

Burkhardt, J., **K. Gillingham**, P. Kopalle, Experimental Evidence on the Effect of Information and Pricing on Residential Electricity Consumption.

Gillingham, K., F. Iskhakov, A. Munk-Nielsen, J. Rust, and B. Schjerning, A Dynamic Model of Vehicle Ownership, Type Choice, and Usage.

Gillingham, K., The Economics of Fuel Economy Standards versus Feebates.

Selected Journal Articles

Kraft-Todd, G., B. Bollinger, **K. Gillingham**, S. Lamp, D. Rand (2018) Credibility-Enhancing Displays Promote the Provision of a Non-Normative Public Good. forthcoming at *Nature*.

Gillingham, K. and J. Stock (2018) The Costs of Climate Mitigation. forthcoming at *Journal of Economic Perspectives*.

Gillingham, K. and T. Tsvetanov (2018) Hurdles and Steps: Estimating Demand for Solar Photovoltaics. forthcoming at *Quantitative Economics*.

Gillingham, K., W. Nordhaus, D. Anthoff, G. Blanford, V. Bosetti, P. Christensen, H. McJeon, J. Reilly (2018) Modeling Uncertainty in Integrated Assessment of Climate Change: A Multi-Model Comparison. *Journal of the Association of Environmental & Resource Economists*, 5(4): 791-826.

Gillingham, K. and T. Tsvetanov (2018) Nudging Energy Efficiency Audits: Evidence from a Field Experiment. *Journal of Environmental Economics & Management*, 90: 303-316.

Christensen, P., **K. Gillingham**, and W. Nordhaus (2018) Uncertainty in Forecasts of Long-Run Economic Growth. *Proceedings of the National Academy of Sciences*, 115(21): 5409-5414.

Gillingham, K., A. Keyes, K. Palmer (2018) Advances in Evaluating Energy Efficiency Policies and Programs. *Annual Review of Resource Economics*, 10(1).

Gillingham, K., S. Carattini, D. Esty (2017) Lessons from First Campus Carbon Pricing Scheme. *Nature*, 551: 27-29.

Gillingham, K., J. Bushnell, M. Fowlie, M. Greenstone, C. Kolstad, A. Krupnick, A. Morris, R. Schmalensee, and J. Stock (2016) Reforming the Federal Coal Leasing Program. *Science*, 354(6316): 1096-1098.

Gillingham, K., D. Rapson, and G. Wagner (2016) The Rebound Effect and Energy Efficiency Policy. *Review of Environmental Economics & Policy*, 10(1): 68-88.

Gillingham, K., H. Deng, R. Wiser, N. Darghough, G. Nemet, G. Barbose, V. Rai, and C. Dong (2016) Deconstructing Solar Photovoltaic Pricing: The Role of Market Structure, Technology, and Policy. *Energy Journal*, 37(3): 231-250.

Burke, M., M. Craxton, C. Kolstad, C. Onda, H. Allcott, E. Baker, L. Barrage, R. Carson, **K. Gillingham**, J. Graff-Zivin, M. Greenstone, S. Hallegatte, W. Hanemann, G. Heal, S. Hsiang, B. Jones, D. Kelly, R. Kopp, M. Kotchen, R. Mendelsohn, K. Meng, G. Metcalf, J. Moreno-Cruz, R. Pindyck, S. Rose, I. Rudik, J. Stock, and R. Tol (2016) Opportunities for Advances in Climate Economics. *Science*, 352(6283): 292-293.

Chan, N. and **K. Gillingham** (2015) The Microeconomic Theory of the Rebound Effect and its Welfare Implications. *Journal of the Association of Environmental & Resource Economists*, 2(1): 133-159.

Gillingham, K., A. Jenn, and I. Azevedo (2015) Heterogeneity in the Response to Gasoline Prices: Evidence from Pennsylvania and Implications for the Rebound Effect, *Energy Economics*, 52(S1): S41-S52.

Graziano, M. and **K. Gillingham** (2015) Spatial Patterns of Solar Photovoltaic System Adoption: The Influence of Neighbors and the Built Environment. *Journal of Economic Geography*, 15(4): 815-839.

Pizer, W., M. Adler, J. Aldy, D. Anthoff, M. Cropper, **K. Gillingham**, M. Greenstone, B. Murray, R. Newell, R. Richels, A. Rowell, S. Waldhoff, and J. Wiener (2014) Using and Improving the Social Cost of Carbon. *Science*, 346(6214): 1189-1190.

Gillingham, K. and K. Palmer (2014) Bridging the Energy Efficiency Gap: Policy Insights from Economic Theory and Empirical Analysis. *Review of Environmental Economics & Policy*, 8(1): 18-38. Editor's Choice.

Gillingham, K. (2014) Identifying the Elasticity of Driving: Evidence from a Gasoline Price Shock in California. *Regional Science & Urban Economics*, 47(4): 13-24. Special Issue Tribute to John Quigley.

Gillingham, K., M. Kotchen, D. Rapson, and G. Wagner (2013) The Rebound Effect is Over-played. *Nature*, 493: 475-476.

Bollinger, B. and **K. Gillingham** (2012) Peer Effects in the Diffusion of Solar Photovoltaic Panels. *Marketing Science*, 31(6): 900-912.

Gillingham, K., M. Harding, and D. Rapson (2012) Split Incentives in Residential Energy Consumption. *Energy Journal*, 33(2): 37-62.

Gillingham, K. and J. Sweeney (2012) Barriers to Implementing Low Carbon Technologies. *Climate Change Economics*, 3(4), 1-25.

Gillingham, K., R. Newell, and K. Palmer (2009) Energy Efficiency Economics and Policy. *Annual Review of Resource Economics*, 1: 597-619. Reprinted in Italian in *Energia* (2010).

van Benthem, A., **K. Gillingham**, and J. Sweeney (2008) Learning-by-Doing and the Optimal Solar Policy in California. *Energy Journal*, 29(3): 131-151.

Gillingham, K., R. Newell, and W. Pizer (2008) Modeling Endogenous Technological Change for Climate Policy Analysis. *Energy Economics*, 30(6): 2734-2753.

Gillingham, K., R. Newell, and K. Palmer (2006) Energy Efficiency Policies: A Retrospective Examination. *Annual Review of Environment and Resources*, 31: 193-237.

Selected Work-in-Progress

"Selection and Driving Behavior Under Pay As You Drive Insurance" (with Jim Levinsohn and Steve Berry)

"The Economic Efficiency of Renewable Portfolio Standards in the Presence of Cap-and-Trade" (with Arthur van Benthem)

Additional Journal Articles

Nemet, G., E. O'Shaughnessy, R. Wiser, N. Darghouth, G. Barbose, **K. Gillingham**, and V. Rai (2017) What Factors Affect the Prices of Low-Priced U.S. Solar PV Systems? *Renewable Energy*, 114: 1333-1339.

Nemet, G., E. O'Shaughnessy, R. Wiser, N. Darghouth, G. Barbose, **K. Gillingham**, and V. Rai (2017) Solar Subsidies and the Characteristics of Low-Priced Solar Systems. *Applied Energy*, 187: 501-513.

Yeh, S., G. Mishra, G. Morrison, J. Teter, R. Quiceno, **K. Gillingham**, and X. Riera-Palou (2013) Long-Term Shifts in Lifecycle Energy Efficiency and Carbon Intensity. *Environmental Science & Technology*, 47(6): 2494-2501.

Leaver, J. and **K. Gillingham** (2010) Economic Impact of the Integration of Alternative Vehicle Technologies into the New Zealand Vehicle Fleet. *Journal of Cleaner Production*, 18: 908-916.

Friedland, A. and **K. Gillingham** (2010) Carbon Accounting is a Tricky Business. Letter to the Editor, *Science*, 327(5964): 411-412.

Gillingham, K. (2009) Economic Efficiency of Solar Hot Water Policy in New Zealand. *Energy Policy*, 37(9): 3336-3347.

Leaver, J., L. Leaver, and **K. Gillingham** (2009) Assessment of Primary Impacts of a Hydrogen Economy in New Zealand using UNISYD. *International Journal of Hydrogen Energy*, 34(7): 2855-2865.

Gillingham, K., S. Smith, and R. Sands (2008) Impact of Bioenergy Crops in a Carbon Constrained World: An Application of the MiniCAM Linked Energy-Agriculture and Land Use Model. *Mitigation and Adaptation Strategies for Global Change*, 13(7): 675-701.

Safirova, E., **K. Gillingham**, and S. Houde (2007) Measuring Marginal Congestion Costs of Urban Transportation: Do Networks Matter? *Transportation Research A*, 41(8): 734-749.

Shih, J-S, W. Harrington, W. Pizer, and **K. Gillingham** (2006) Economies of Scale in Community Water Systems. *Journal of American Water Works Association*, 98(9): 100-108.

Safirova, E., P. Nelson, W. Harrington, **K. Gillingham**, and A. Lipman (2005) Choosing Congestion Pricing Policy: Cordon Tolls vs. Link-Based Tolls. *Transportation Research Record*, 1932: 169-177.

Book Chapters

Gillingham, K. (2014) Rebound Effects. In: *The New Palgrave Dictionary of Economics*, Steven Durlauf and Lawrence Blume, eds., Palgrave Macmillian Publishing.

Gillingham, K. and J. Sweeney (2010) Market Failure and the Structure of Externalities. In: *Harnessing Renewable Energy*, Boaz Moselle, Jorge Padilla, Richard Schmalensee (eds). RFF Press.

Gillingham, K., R. Newell, and K. Palmer (2006) The Effectiveness and Cost of Energy Efficiency Programs. In: *The RFF Reader in Environmental and Resource Policy*, Wallace Oates (ed). RFF Press. 193-201.

Safirova, E., I. Parry, P. Nelson, W. Harrington, **K. Gillingham**, and D. Mason (2004) Welfare and Distributional Effects of HOT Lanes and Other Road Pricing Policies in Metropolitan Washington, DC. In: *Road Pricing: Theory and Evidence*, Georgina Santos (ed). Elsevier. *Research in Transportation Economics*, 9(1): 179-206.

Non-Peer Reviewed Publications

Bollinger, B., J. Burkhardt, and **K. Gillingham** (2018) Peer Effects in Water Conservation: Evidence from Consumer Migration, Global Water Forum.

K. Gillingham and J. Stock (2016) Federal Minerals Leasing Reform and Climate Policy, *Brookings Hamilton Project*, Policy Proposal 2016-07.

Bollinger, B. and **K. Gillingham** (2012) Do Peer Effects Matter? Assessing the Impact of Causal Social Influence on Solar PV Adoption, *Photovoltaics International*, 17: 160-165.

Safirova, E., W. Harrington, P. Nelson, and **K. Gillingham** (2004) Are HOT Lanes a Hot Deal? Analyzing the Potential of HOV to HOT Lanes Conversion in Northern Virginia. RFF Issue Brief 03-03.

Nelson, P., E. Safirova, and **K. Gillingham** (2003) Revving up the Tax Engine: Gas Taxes and the DC Metro Area's Transportation Dilemma. RFF Issue Brief 03-05.

Grants

“Technological Innovation and Per-Mile Automobile Insurance: Effects on Patterns of Vehicle Usage,” National Bureau of Economic Research (with support from the U.S. Department of Energy, the National Science Foundation, and the Sloan Foundation), PI, 2018-2019

“Using Behavioral Science to Target LMI and High-Value Solar Installations,” U.S. Department of Energy, PI, 2017-2019 (\$1,350,000)

“Household Demand for Solar PV and Price Discriminating Subsidies,” National Bureau of Economic Research (with support from the U.S. Department of Energy and the National Science Foundation), co-PI with Steve Sexton and Bryan Bollinger, 2016-2017 (\$23,000).

“Solutions for Energy, Air, Climate, and Health (SEARCH),” U.S. Environmental Protection Agency, subproject co-PI with Ben Hobbs, 2015-2020 (~\$10,000,000 total; \$1,618,814 for project 1)

“Energy Efficiency Field Experiments in New Haven,” Yale Center for Business and the Environment, F.K. Weyerhaeuser Memorial Fund, co-PI with Tsvetan Tsvetanov, 2014-2016 (\$40,000)

“What are Sustainable Climate Risk Management Strategies?” National Science Foundation (subcontract from Penn State), co-PI with William Nordhaus, 2014-2016 (\$164,469)

“The Influence of Novel Behavioral Strategies in Promoting the Diffusion of Solar Energy,” U.S. Department of Energy, PI, 2013-2016 (\$1,899,978)

“Research in Integrated Assessment Inter-Model Development, Testing, and Diagnostics,” U.S. Department of Energy (subcontract from Stanford), with William Nordhaus, 2013-2016 (\$232,000)

“Density, Walkability, and VMT,” Yale Center for Business and the Environment Sobotka Research Fund, PI, 2013-2014 (\$10,100)

“Deep Dive Solar Cost Analysis,” Lawrence Berkeley National Laboratory/U.S. Department of Energy, PI, 2013-2016 (Yale budget: \$115,000)

“Modeling Household and Transportation Vehicle Choice and Usage,” California Air Resources Board, co-PI with Dave Rapson, Chris Knittel, and Pat Mokhtarian, 2012-2014 (\$300,000)

“Sunrise New England,” US Department of Energy, co-PI with Stuart DeCew, 2012-2014 (Yale budget: \$215,000)

“The Consumer Response to Gasoline Price Changes,” Stanford Institute for Economic Policy Research (SIEPR) Grant, 2010 (\$10,000)

“The Consumer Response to Gasoline Price Changes,” Shultz Graduate Student Fellowship in Economic Policy, SIEPR, 2010 (\$4,000)

“Economics of New Zealand Solar Distributed Generation,” Fulbright Fellowship, 2007

“The Effect of Income and Congestion on the Rebound Effect of CAFE Standards,” U.S. Environmental Protection Agency STAR Fellowship, 2006-2009 (\$111,000)

Heitz Graduate Fellowship, Stanford University, 2006

Battelle Memorial Institute Fellowship, 2001 (\$6,000)

Honors and Awards

Full Member, Sigma Xi, 2011

Dennis O’Brian Best Student Paper Award, US Association for Energy Economics, 2008

Thesis and Research Essay Publication Scholarship, University of Auckland, 2006

Outstanding Teaching Assistant Award, Stanford Economics, 2006

National Science Foundation Graduate Fellowship, Honorable Mention, 2006

American Water Works Association Best Paper Award, 2006
Departmental Honors, Dartmouth Economics, 2002
Departmental High Honors, Dartmouth Environmental Studies, 2002
Associate Member, Sigma Xi, 2002
First Prize, Dartmouth Sigma Xi Senior Thesis Competition, 2002

Teaching

Yale University

2012-2013/2014-2015/2016-2017: Ph.D. Environmental and Energy Economics, Energy Economics and Policy Analysis (Masters), Yale Environmental Economics Seminar.

2011-2012: Economics of the Environment (Masters), Yale Environmental Economics Seminar.

National Science Foundation

Integrated Assessment Modeling, SCRiM Summer Institute (at Penn State).

Stanford University (Teaching Assistant)

Ph.D. Microeconomics, Introductory Econometrics, Natural Resource Economics (Graduate), Transportation Policy (Graduate), Energy Policy Analysis (Graduate), Energy & Environmental Policy Analysis (Graduate), Climate Policy Analysis (Graduate), Principles of Economics.

Advising

Current Advisees

Ph.D. Primary Advisor

Hao Deng (FES 5th year), Paige Weber (FES 4th year), Stephanie Weber (FES 3rd year), Wade Davis (FES 2nd year)

Ph.D. Committee Member

Tamar Makov (FES 6th year), Peter Berrill (FES 2nd year), Paul Wolfram (FES 2nd year), Zihan Zhuo (FES 3rd year), Jonghyun Yoo (FES 2nd year)

Post-doc Advisor

Stefano Carattini, Pei Huang, Marten Ovaere

Advisee Alumni

Ph.D. Committee Member (first placement; current placement)

Kellie Stokes '18 (NASA)

Nikki Springer '18 (MugenKioku Consultants)

Gil DePaula '17 (Iowa State University)

Jesse Burkhardt '16 (Colorado State University)

Marcelo Sant'Anna '16 (FGV/EPAVB Brazilian School of Public & Business Administration)

Peter Christensen '15 (University of Illinois, Urbana-Champaign)

Richard Langford '15 (Bates White Consulting)
 Laura Bakkensen '14 (University of Arizona)
 Nathan Chan '14 (Colby College; UMass-Amherst)
 Alan Jenn CMU'14 (Carnegie-Mellon post-doc; UC Davis)
 Marcello Graziano UConn'14 (University of the Highlands post-doc; Central Michigan University)

Former Post-doctoral Scholars (first placement)

Stefano Carattini '18 (Georgia State University)
 Stefan Lamp '16 (Toulouse School of Economics Research Fellow)
 Tsvetan Tsvetanov '15 (University of Kansas)

Masters Thesis Advising

Hilary Staver (E3), Paige Weber (Ph.D. student at FES), Robert Fetter (Ph.D. student at Duke)

MEM Independent Study

Howard Chang (MEM/MBA '12), Dustin Schinn (MEM '13), Peter Baum (MEM '13), Vijeta Jangra (MEM '13), Jessie Shoemaker (MEM '15), Rebecca Gallagher (MEM/MBA '15), Ben Dawson (MEM '16), Sarah Freel (MEM '15), Elizabeth Youngblood (Harvard MEM '15), Emily Wier (MEM '17)

Undergraduate Senior Thesis

Ana Grajales (economics '13), Daniel Cheng (math-econ '13), Blake Hofmeister (economics '15), Brandon Blaesser (economics\env. studies '15),

Presentations

2018 (scheduled): AEA/Econometric Society Meetings (presenter in 2 sessions); Stanford University; UC Berkeley Climate Lunch; UC Berkeley EEE Seminar; Council on Foreign Relations (participant); Cornell University; NBER EEE Spring Meetings; University of Munster; ETH Zurich; NYU Volatility Institute Conference; University of Montpellier Workshop on Energy Economics (keynote); Toulouse School of Economics Workshop on Environmental Regulation & Industrial Performance; ISMS Marketing Science Conference; US Association for Energy Economics Plenary Speaker (Washington, DC).

2017: AEA Meetings (discussant, panelist, and session presider); U.S. Energy Information Administration; Yale FES; International Monetary Fund; Yale Industrial Organization Workshop; Ifo Institute (Munich); University of Connecticut Economics; SEARCH Project Meeting at Yale; International Industrial Organization Conference (Boston, MA); NBER Energy Markets Meeting; Association of Environmental and Resource Economists Annual Meeting (Pittsburgh, PA); Northeast Workshop on Environmental Economics and Energy Policy (Dartmouth); PERC Innovation, Property Rights, and the Structures of Energy (Bozeman, MT); Workshop on the Applications of Industrial Organization (Montreal, Canada); University of Chicago Advances with Field Experiments Conference; Avangrid Leadership Summit; Columbia University Global Energy Policy Center; Harvard Environmental Economics Seminar; CESifo Workshop on Climate and Energy (Munich, Germany); BECC Conference (Sacramento), TE3 Conference (UMichigan); CT Dept Energy & Environmental Protection; US Association for Energy Economics (Houston, TX).

2016: AEA Meetings (discussant on 2 papers and session presider); Council on Foreign Relations (participant); Multi-scale Economics Methodologies and Scenarios Workshop (College Park, MD); Yale US-China Renewable Energy Forum (moderator); GTAP Annual Conference on Global Economic Analysis (Washington, DC); Resources for the Future; EMF Workshop on Climate Change Impacts and Integrated Assessment (Snowmass, CO); Camp Resources (Wrightsville Beach, NC); University of Illinois Urbana-Champaign; University of Chicago Advances with Field Experiments Conference; Columbia University; US Association for Energy Economics Plenary Speaker (Tulsa, OK); KAPSARC Energy Dialogue (Riyadh, Saudi Arabia); Brookings Hamilton Project.

2015: AEA Meetings (presenter, discussant on 4 papers, and session presider); ICLEI Rooftop Solar Challenge/Solar Market Pathways webinar; RWTH Aachen University (Aachen, Germany); Penn State Environmental Economics seminar; International Industrial Organization Conference (Boston, MA); Northeast Workshop on Energy Policy & Environmental Economics (Yale); Association of Environmental & Resource Economists Summer Conference (San Diego, CA); University of Strathclyde (Glasgow, Scotland); Empirical Methods in Energy Economics Workshop (UMaryland); EMF Workshop on Climate Change Impacts and Integrated Assessment (Snowmass, CO); World Congress of the Econometric Society (Montreal, Canada); Heartland Environmental & Resource Economics Workshop (UIUC); National Academy of Sciences; World Bank Applied Micro seminar.

2014: AEA Meetings (presenter of 2 papers, discussant on 2 papers, and session presider); University of Copenhagen Economics; Indiana University SPEA; University of Michigan Economics; Clean Energy States Alliance (Webinar); Environmental Defense Fund Applied Environmental Economics Seminar; University of Chicago Booth; Duke Social Cost of Carbon Workshop; US Association for Energy Economics (New York, NY); KAPSARC Drivers of Transportation Workshop (Washington, DC); 6th Atlantic Workshop on Energy and Environmental Economics (A Toxa, Spain); Stanford Institute for Theoretical Economics (SITE) Empirical Implementation of Theoretical Models of Strategic Interaction and Dynamic Behavior Workshop (Stanford, CA); NBER Environmental & Energy Economics Summer Institute (Cambridge, MA); EMF Workshop on Climate Change Impacts and Integrated Assessment (Snowmass, CO); NSF SCRiM Summer School at Penn State (State College, PA); Resources for the Future; Ecole de Mines-ParisTech CERNA (Paris); CIREN (Paris); Paris-Dauphine University/Mines-ParisTech/Ecole Normale (Keynote); Indiana University Kelley School of Business; National Low-Carbon Case Competition Keynote (Yale SOM); Yale Presidential Carbon Charge Task Force Meeting; Harvard Seminar on Environmental Economics and Policy; RFF Workshop on Benchmarking and Disclosure; Behavior, Energy, and Climate Change (BECC) Conference (Washington, DC); LBNL Webinar.

2013: AEA Meetings (discussant); Modeling Uncertainty Project Meeting (New Haven, CT); FES/SOM Yale Environmental Economics Seminar; Carnegie-Mellon University; Villanova Law; Arizona State University Economics of Water Workshop (Keynote); International Industrial Organization Conference (Cambridge, MA); AERE Summer Conference (Banff, AB); Empirical Methods in Energy Economics Workshop (Carlton University, Ottawa); DOE Sunshot Kick-off Meeting; EMF Workshop on Climate Change Impacts and Integrated Assessment (Snowmass, CO); Stanford Institute for Theoretical Economics (SITE) Advances in Environmental Economics Workshop; Columbia University SIPA; Indiana University Kelley School of Business; Tsinghua University Institute of Energy, Environment, and Economy; Fudan University Economics; Duke-Harvard Energy Efficiency Workshop (at Harvard KSG); Indiana University SPEA; Behavior, Energy, and Climate Change (BECC) Conference (Sacramento, CA); Resources for the Future Workshop on CAFE Standards; Connecticut Clean Energy Finance & Investment Authority.

2012: AEA Meetings (presenter); Yale FES Seminar Series; Lawrence Berkeley National Laboratory/DOE Sunshot Initiative Workshop; Triangle Resource & Environmental Economics seminar (Duke, NCSU, UNC); Indiana University Kelley School of Business/Economics/SPEA; University of Massachusetts Amherst Resource Economics; Rice University Economics; Texas A&M Economics; UC Santa Cruz Economics; Naval Postgraduate School Economics; UC Santa Barbara Economics/Bren School; ETH Zurich

Economics; University of Lugano Economics; AERE Summer Conference (Asheville, NC); EMF Workshop on Climate Change Impacts and Integrated Assessment (Snowmass, CO); Connecticut Clean Energy Finance & Investment Authority; UC Berkeley/Lincoln Institute of Land Policy Conference; University of Colorado Boulder Economics; University of Wyoming Economics; US Association for Energy Economics (Austin, TX); University of Connecticut ARE; University of Copenhagen Economics.

2011: University of Maryland AREc; Indiana University SPEA; UC Davis Economics; University of Arizona Economics; Arizona State University Economics; University of Illinois Urbana-Champaign Finance; University of Notre Dame Economics; Yale University FES; Informing Green Markets Conference (University of Michigan); Cowles Foundation Structural Microeconometrics Conference (Yale University); Empirical Methods in Energy Economics Workshop (Southern Methodist University); Harvard Seminar on Environmental Economics and Policy; Re-examining the Rebound Effect in Energy Efficiency Workshop (Environmental Defense Fund); RFF-Stanford Workshop on the Next Round of Climate Economics and Policy Research (Washington, DC); US Association for Energy Economics (Washington, DC); Workshop on Environmental and Transportation Policies to Mitigate Climate Change (New York University); Religare Capital Markets (Singapore); Behavior, Economics, and Energy Panel (National University of Singapore Energy Studies Institute); University of Copenhagen Economics.

2010: UC Berkeley Energy Institute; NBER EEE Summer Institute; World Congress Env & Resource Economists (Montreal); US Association for Energy Economics (Calgary); Behavior, Energy & Climate Change (BECC) Conference; 12th Occasional California Workshop on Environmental and Resource Economics; UC Davis ARE; Resources for the Future.

2009: UC Berkeley ARE; Stanford IO Workshop; DOE EIA Advisory Council; US Association for Energy Economics (San Francisco); UC Energy Institute CSEM Conference.

2008: UC Davis ITS; Victoria University, New Zealand.

2007: University of Auckland Energy Centre, New Zealand; Massey University, New Zealand; International Association for Energy Economics (Wellington, New Zealand).

2006: Dartmouth College Workshop on Technological Change & Environment.

2004: Transportation Research Board Annual Meeting.

Professional Service

Referee Service

Economics Journals: *American Economic Journal: Applied, American Economic Journal: Economic Policy, American Economic Review, American Journal of Agricultural Economics, B.E. Journal of Economic Analysis & Policy, Climate Change Economics, Eastern Economic Journal, Economic Journal, Economica, Economics of Energy & Environmental Policy, Economics of Transportation, Ecological Economics, Energy Economics, Energy Journal, European Economic Review, Environmental & Resource Economics, International Economic Review, Journal of the Association of Environmental and Resource Economists, Journal of Business & Economic Statistics, Journal of Econometrics, Journal of Economic Behavior & Organization, Journal of Economic Surveys, Journal of Economic Theory, Journal of Economics & Management Strategy, Journal of Environmental Economics & Management, Journal of Industrial Economics, Journal of Institutional & Theoretical Economics, Journal of Public Economics, Management Science, Oxford Economic Papers, Quarterly Journal of Economics, RAND Journal of Economics, Regional Science & Urban Economics, Resource & Energy Economics, Review of Economics & Statistics, Review of Economic Dynamics, Review of Environmental Economics & Policy, Scandinavian Journal of Economics, Southern Economic Journal, The Manchester School, World Bank Economic Review.*

Environment/Engineering/Policy/Science Journals: *Applied Energy, Building Research, Cityscape, Climatic Change, Energies, Energy, Energy & Fuels, Energy Efficiency, Energy Policy, Energy Strategy Reviews, Energy Research & Social Science, Environment & Behavior, Environment Development & Sustainability, Environmental Modeling & Assessment, Environmental Research Letters, Environmental Science & Technology, Environmental Sociology, Frontiers in Energy Research, Food Policy, Global Environmental Change, IEEE Transactions on Power Systems, IEEE Transportation Electrification, International Journal of Sustainable Transportation, Journal of Cleaner Production, Journal of Environment & Development, Journal of Industrial Ecology, Journal of Policy Analysis & Management, Journal of Sustainable Forestry, Mitigation & Adaptation Strategies for Global Change, Nature, Nature Climate Change, Nature Communications, Nature Energy, PLOS One, Science, Sustainable Cities and Society, Transportation Research A, Transportation Research D, Utilities Policy.*

Editorial Boards

Editorial Board of *Energy Journal*, 2017-present.

Editorial Board of *Energy Efficiency*, 2016-present.

Review Service

Alfred P. Sloan Foundation, Alliance for Research on Corporate Sustainability, Danish Council for Strategic Research, KU Leuven, MIT Press, National Academy of Sciences Transportation Research Board, National Science Foundation, National Renewable Energy Laboratory, National Research Council (NRC) of the National Academy of Sciences, Princeton University Press, Singapore Ministry of Education, Swiss National Science Foundation, UNC Water Resources Research Institute, U.S. Department of Energy Quadrennial Technology Review, U.S. Environmental Protection Agency.

Expert Review Panels

National Academy of Sciences panel (invited; declined while at the White House), Connecticut Academy of Science & Engineering expert panel (Oct 2014-Feb 2015), US Department of Energy expert panel to inform the Quadrennial Technology Review (Nov 13, 2014), USAEE Student Best Paper Award Selection Committee (February/March 2014), US Department of Agriculture NIFA Climate Change Adaptation expert review panel (Aug 1-2, 2013), US Department of Energy review panel (April 26, 2013), US Department of Agriculture NIFA Bioenergy Policy expert review panel (Apr 19-20, 2012).

Conferences Co-Organized

Northeast Workshop in Energy Policy & Environmental Economics (May 17-18, 2018 at Columbia).
 Northeast Workshop in Energy Policy & Environmental Economics (June 13-14, 2017 at Dartmouth).
 Empirical Methods in Energy Economics (July 9-10, 2015 at UMD).
 Northeast Workshop on Energy Policy & Environmental Economics (May 21-22, 2015 at Yale).
 Yale Workshop on Uncertainty in Climate Change (Nov 21, 2013 at Yale).
 Northeast Workshop on Energy Policy & Environmental Economics (May 10-11, 2013 at Cornell).
 Modeling Uncertainty in Climate Policy Workshop (Feb 4, 2013 at Yale).

Advisory Boards

Scientific Advisory Board, RFF Social Cost of Carbon Initiative, 2018-present.

External Advisory Board, CMU Center for Climate and Energy Decision Making, 2018-present.

University Service

Yale College Energy Studies Advisory Committee (2016-2018)
 Yale FES Strategic Vision Committee (2016-2017)
 Yale Climate & Energy Institute (YCEI) Steering Committee (2013-2015).
 Yale Carbon Pricing subcommittee (2015).

Professional Affiliations

American Economic Association, Association of Environmental and Resource Economists, Econometric Society, Industrial Organization Society, RWI Research Network, United States Association for Energy Economics.

In the Media

Wall Street Journal *The Numbers Guy* Blog: "The Rebound Effect," May 26, 2009.
 Grist: "Making Buildings More Efficient: Looking Beyond Price," Oct 23, 2009.
 Grist: "Solar Power is Contagious," Apr 5, 2011.
 Energy Matters: "Australia's Home Solar Power Revolution and the Viral Effect," Apr 6, 2012.
 Wired: "Solar Panels are Contagious," Apr 12, 2011.
 The David Sirota Show AM 760: "Solar Power is Contagious," Apr 25, 2011.
 Connecticut Public Radio (WNPR): "Where we Live: Future of Natural Gas" Aug 8, 2011.
 Yale Daily News: "City Wins Transportation Grant," Oct 20, 2011.
 The Straits Times (Singapore): "To Save the Earth, Know Human Nature," Nov 20, 2011.
 Business Times: "Cutting Green Path Via Behavioural Economics," Nov 21, 2011.
 Washington Post: "Solar Power is Contagious – But Not Quite Virulent," Dec 5, 2011.
 Forbes: "Keeping Up With the Greens: Neighborhood Solar is Contagious," Dec 9, 2011.
 Yale Daily News: "Nuclear's Back with New Clarity," Feb 10, 2012.
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 Wall Street Journal *SmartMoney*: "For Appliances, Does Energy Efficiency Sell?" Oct 16, 2012.
 CleanTechnica.com: "If Your Neighbor Has Solar Panels, You're More Likely to Go Solar," Oct 18, 2012.
 kcet.com: "'C'mon, Everyone is Doing it': Peer Pressure Sells Solar, Says Study," Oct 18, 2012.
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 India Talkies: "Use of Solar Panels Popularised by Example," Oct 19, 2012.
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 R&D Magazine: "Study: Solar Power is Contagious," Oct 19, 2012.
 Environmental News Network: "Solar Power Adoption is Contagious," Oct 22, 2012.
 Huffington Post: "Solar Panel Installations More Likely In Homes With Energy Efficient Neighbors," Oct 23, 2012.
 ClimateWire: "Is Renewable Energy Contagious: Research Shows a 'Peer Effect'," Nov 5, 2012.
 Yale Daily News: "Sandy Link to Climate Change Questioned," Nov 9, 2012.
 AOL Energy: "The Psychology of Small-Scale Solar," Nov 19, 2012.

New York Times: "Solar Industry Borrows a Page, and a Party, from Tupperware," Dec 1, 2012.

Yahoo News: "Economist: Rebound Effect of Energy-Efficient Cars is Overplayed," Jan 23, 2013.

Scientific American: "Does Increased Energy-Efficiency Just Spark Us to Use More?" Jan 23, 2013.

Central Valley Business Times: "'Rebound Effect' Has Little Bounce," Jan 23, 2013.

Sierra Daily: "Energy Efficiency? Why Bother?" Jan 23, 2013.

Arstechnica: "How Badly Does the Rebound Effect Undercut Energy Efficiency?" Jan 24, 2013.

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Huffington Post: "Nature: The Rebound Effect is Overplayed," Jan 24, 2013.

R&D Magazine: "The 'Rebound' Effect of Energy-Efficient Cars Overplayed," Jan 24, 2013.

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The Naked Scientists, Science News: "Energy Efficiency on the Rebound," Jan 24, 2013.

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