

# Kenneth Gillingham

Yale University  
School of the Environment  
195 Prospect Street  
New Haven, CT 06511, USA

Phone: (203) 436-5465  
Fax: (203) 436-9135  
Email: [kenneth.gillingham@yale.edu](mailto:kenneth.gillingham@yale.edu)  
Homepage: [www.yale.edu/gillingham](http://www.yale.edu/gillingham)

## Current Appointments

**Yale University**, *Professor of Economics*, July 2021-present

School of the Environment  
Secondary appointment, School of Management  
Secondary appointment, Department of Economics  
Secondary appointment, Jackson School of Global Affairs

**National Bureau of Economic Research**, *Research Associate*, Oct 2021-present

**National Academies of Sciences, Engineering, and Medicine**, Board of Environmental Change and Society, *Member*, Jun 2022-present

**Review of Economics & Statistics**, *Associate Editor*, February 2021-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, minor in 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

**Yale University**, Associate Professor (without tenure), 2017-2021

**National Bureau of Economic Research**, Faculty Research Fellow, 2015-2021

**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

Google Scholar as of 1/4/2023: 10,026 citations, h-index 42, i10-index 73.

\* denotes current or former advisee

## Working Papers

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

Fibich, G., T. Levin, **K. Gillingham**, Boundary Effects in the Diffusion of New Products on Cartesian Networks, Resubmitted to *Operations Research*.

**Gillingham, K.**, M. Ovaere\* and S. Weber\*, Carbon Policy and the Emissions Implications of Electric Vehicles, Revisions requested at the *Journal of the Association of Environmental & Resource Economists*.

Bollinger, B., **K. Gillingham**, S. Lamp\*, T. Tsvetanov\*, Promotional Campaign Duration and Word-of-Mouth in Durable Good Adoption, Revisions requested at *Marketing Science* (Practice Prize).

Carattini, S.\*, **K. Gillingham**, X. Meng, E. Yoeli, Peer-to-Peer Solar and Social Rewards: Evidence From a Field Experiment, Revisions requested at *Journal of Economic Behavior and Organization*.

**Gillingham, K.** and P. Huang\*, Racial Disparities in the Health Effects from Air Pollution: Evidence from Ports, Minor revisions requested at *Journal of Human Resources*.

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

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

Berry, S., **K. Gillingham**, J. Levinsohn, Selection and Unraveling in Automobile Insurance: The Effect of Per-Mile Insurance.

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

Bollinger, B., **K. Gillingham**, and S. Lamp, Equilibrium Effects of Competition on Solar Photovoltaic Demand and Pricing.

## Journal Articles

2023

Forsythe, C., **K. Gillingham**, J. Michalek, K. Whitefoot (2023) Technology Advances are Driving Electric Vehicle Adoption. *Proceedings of the National Academy of Sciences*, 120(23): e2219396120.

Howard, P., M. Sarinsky, M. Bauer, C. Cecot, M. Cropper, M. Drupp, M. Freeman, **K. Gillingham**, C. Gollier, et al. (2023) U.S. Benefit-cost Analysis Requires Revision. *Science (Letter)*, 380(6647): 803.

**Gillingham, K.**, A. van Benthem, S. Weber, M.A. Saafi, X. He (2023) Has Consumer Acceptance of Electric Vehicles Been Increasing? Evidence from Microdata on Every New Vehicle Sale in the United States. *American Economic Association: Papers & Proceedings*, 113: 329-335.

Langford, R.\* and **K. Gillingham** (2023) Quantifying the Benefits of the Introduction of the Hybrid Electric Vehicle. *International Journal of Industrial Organization*, forthcoming.

Bollinger, B., **K. Gillingham**, K. Gullo (2023) Making Pro-Social Social: The Effectiveness of Social Norm Appeals for Energy Conservation Using Social Media. *Journal of the Association for Consumer Research*, forthcoming.

2022

**Gillingham, K.**, F. Iskhakov, A. Munk-Nielsen, J. Rust, B. Schjerning (2022) Equilibrium Trade in Automobile Markets. *Journal of Political Economy*, 130(10): 2534-2593.

Bollinger, B., **K. Gillingham**, A.J. Kirkpatrick, S. Sexton (2022) Visibility and Peer Influence in Durable Good Adoption. *Marketing Science*, 41(3): 453-476.

Burkhardt, J.\*, N. Chan\*, B. Bollinger, **K. Gillingham** (2022) Conformity and Conservation: Evidence from Home Landscaping and Water Conservation. *American Journal of Agricultural Economics*, 104(1): 228-248.

2021

**Gillingham, K.**, S. Houde, A. van Benthem (2021) Consumer Myopia in Vehicle Purchases: Evidence from a Natural Experiment. *American Economic Journal: Economic Policy*, 13(3): 1-33.

**Gillingham, K.** and B. Bollinger (2021) Social Learning and Solar Photovoltaic Adoption: Evidence from a Field Experiment. *Management Science*, 67(11): 6629-7289.

**Gillingham, K.**, P. Huang\*, C. Buehler, D. Gentner, J. Peccia (2021) The Climate and Health Benefits from Intensive Building Energy Efficiency Improvements. *Science Advances*, 7(34): eabg0947.

Wagner, G., D. Anthoff, M. Cropper, S. Dietz, **K. Gillingham**, B. Groom, J.P. Kelleher, F. Moore, J. Stock (2021) Eight Priorities for Calculating the Social Cost of Carbon. *Nature*, 590: 548-550.

Wolfram, P.\*, S. Weber\*, **K. Gillingham**, E. Hertwich (2021) Pricing of Indirect Emissions Accelerates Low-Carbon Transition of U.S. Light Vehicle Sector. *Nature Communications*, 12: 7121.

Grubb, M., D. Popp, S. Smulders, **K. Gillingham**, S. Samadi, M. Glachant, C. Penasco, G. Pavan, G. Hassel, E. Mizuno, E. Rubin, A. Dechezleprêtre (2021) Induced Innovation in Energy Technologies and Systems: A Review of Evidence and Potential Implications for CO<sub>2</sub> Mitigation. *Environmental Research Letters*, 16: 043007.

Berrill, P.\*, **K. Gillingham**, E. Hertwich (2021) Linking Housing Policy, Housing Typology and Residential Energy Demand in the United States. *Environmental Science & Technology*, 55(4): 2224-2233.

Berrill, P.\*, **K. Gillingham**, E. Hertwich (2021) Drivers of Change in U.S. Residential Energy Consumption and Greenhouse Gas Emission, 1990-2015. *Environmental Research Letters*, 16(3): 034045.

2020

Bollinger, B., J. Burkhardt\*, **K. Gillingham** (2020) Peer Effects in Residential Water Conservation: Evidence from Migration. *American Economic Journal: Economic Policy*, 12(3): 107-133.

Archsmith, J., **K. Gillingham**, C. Knittel, D. Rapson (2020) Attribute Substitution in Household Vehicle Portfolios. *RAND Journal of Economics*, 51(4): 1162-1196.

**Gillingham, K.** (2020) The Rebound Effect and the Rollback of Fuel Economy Standards. *Review of Environmental Economics & Policy*, 14(1): 136-142.

Bollinger, B., **K. Gillingham**, M. Ovaere\* (2020) Field Experimental Evidence Shows that Self-Interest Attracts More Sunlight. *Proceedings of the National Academy of Sciences*, 117(34): 20503-20510.

**Gillingham, K.** and P. Huang\* (2020) Long-run Environmental and Economic Impacts of Electrifying Ports in the United States. *Environmental Science & Technology*, 54(16): 9824-9833.

Andor, M., A. Gerster, **K. Gillingham**, M. Horvath (2020) Running a Car Costs Much More Than People Think—Stalling the Uptake of Green Travel. *Nature*, 580: 453-455.

Wolske, K., **K. Gillingham**, P.W. Schultz (2020) Peer Influence on Household Energy Behaviors. *Nature Energy*, 5: 202-212.

**Gillingham, K.**, C. Knittel, J. Li, M. Ovaere\*, M. Reguant (2020) The Short-run and Long-run Effects of Covid-19 on Energy and the Environment. *Joule*, 4(7): 1337-1341.

2019

**Gillingham, K.** and T. Tsvetanov\* (2019) Hurdles and Steps: Estimating Demand for Solar Photovoltaics. *Quantitative Economics*, 10(1): 275-310.

**Gillingham, K.** and A. Munk-Nielsen\* (2019) A Tale of Two Tails: Commuting and the Fuel Price Response in Driving. *Journal of Urban Economics*, 109: 27-40.

**Gillingham, K.** and P. Huang\* (2019) Is Abundant Natural Gas a Bridge to a Low-carbon Future or a Dead-end? *Energy Journal*, 40(2): 75-100.

2018

**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.

**Gillingham, K.** and J. Stock (2018) The Cost of Reducing Greenhouse Gas Emissions. *Journal of Economic Perspectives*, 32(5): 1-20.

Bento, A., **K. Gillingham**, M. Jacobsen, C. Knittel, B. Leard, J. Linn, V. McConnell, D. Rapson, J. Sallee, A. van Benthem, K. Whitefoot (2018) Flawed Analyses of U.S. Auto Fuel Economy Standards. *Science*, 352(6419): 1119-1121.

Kraft-Todd, G.\*, B. Bollinger, **K. Gillingham**, S. Lamp\*, D. Rand (2018) Credibility-Enhancing Displays Promote the Provision of a Non-Normative Public Good. *Nature*, 563: 245-248.

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): 511-532.

2017

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

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) Characteristics of Low-Priced Solar Systems in the U.S. *Applied Energy*, 187: 501-513.

2016

**Gillingham, K.**, H. Deng\*, R. Wiser, N. Darghouth, 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.

**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.**, 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.

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.

2015

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.

2014

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.

2013

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

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.

2012

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.

Prior to 2011

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.

**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).

**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.

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.**, 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.

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

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.** (2021) Designing Fuel-Economy Standards in Light of Electric Vehicles. In: Environmental and Energy Policy and the Economy vol. 3, Tatyana Deryugina, Matthew Kotchen, James Stock (eds). National Bureau of Economic Research.

**Gillingham, K.** and S. Weber (2021) Fuel Economy Standards: Impacts and Safety. In: International Encyclopedia of Transportation, Roger Vickerman, Robert Noland, Dick Ettema (eds). Elsevier.

**Gillingham, K.** (2019) Fostering Energy Innovation for a Sustainable Twenty-First Century. In: A Better Planet: 40 Big Ideas for a Sustainable Future, Daniel Esty (ed). Yale University Press.

**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*

**Gillingham, K.** (2022) Assessing Environmental Regulation in Automobile Markets, The Reporter, National Bureau of Economic Research, Issue 1.

**Gillingham, K.** and S. Weber (2021) Potential and Critical Issues of Electric Vehicles Development. In: The Global Quest for Sustainability: The Role of Green Infrastructure in a Post-Pandemic World, Carlo Secci and Alessandro Gili (eds). ISPI-McKinsey & Company.

Look, W., K. Palmer, D. Burtraw, J. Linn, M. Hafstead, M. Domeshek, N. Roy, K. Rennart, **K. Gillingham,** Q. Xiahou (2021) Emissions Projections for a Trio of Federal Climate Policies, RFF Issue Brief 21-02.

**Gillingham, K.** (2019) Carbon Calculus: For Deep Greenhouse Gas Emission Reductions, a Long-term Perspective on Costs is Essential, *International Monetary Fund Finance & Development*, 56(4): 6-11.

**Gillingham, K.,** J. Stock, W. Davis (2018) Comments on the Notice of Proposed Rulemaking for The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule for Model Years 2021-2026 Passenger Cars and Light Trucks, Docket numbers: EPA-HQ-OAR-2018-0283 and NHTSA-2018-0067.

**Gillingham, K.** (2018) William Nordhaus and the Costs of Climate Change, YaleGlobal Online, reprinted by Voxeu.org.

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.

**Gillingham, K.**, The Economics of Fuel Economy Standards versus Feebates, *National Energy Policy Institute Working Paper*.

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.

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

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.

## Presentations

2023: AEA Meetings (2 presentations); Stanford University Marketing; Clemson University Applied Micro Seminar; Brookings Papers on Economic Activity Meeting (discussant); National Academies BECS Panel on Behavior and Decarbonization (moderator); NBER Economics of Energy Use in Transportation (discussant).

2022: AEA Meetings (discussant & panelist); SUNY-Albany Economics Dept.; Stanford University Sustainability School; U.S. Environmental Protection Agency National Center for Environmental Economics; University of Copenhagen Center for Computational Economics Workshop; University of Calgary Applied Microeconomics Seminar; RWI Leibniz Applied Micro (virtual) seminar; University of Alaska Anchorage Economics Seminar; US Association for Energy Economics Conference; Harvard Climate Political Economy Meeting.

2021: AEA Meetings (presenter & discussant); Yale Planetary Solutions Initiative; University of Tennessee Baker Center for Public Policy Energy and Environment Forum; Michigan State University Applied Microeconomics Seminar; UC Dublin School of Economics; Western States Air Resources Council; University of Montana 'From Science to Policy' Seminar; Ben-Gurion University Faculty of Business & Management; Harvard Environmental Economics Seminar; NBER Environmental & Energy Policy and Economics Conference; ZEW Mannheim Energy Conference (keynote address); Amazon.com; Ifo Institute Climate & Energy Seminar; International Association for Energy Economics; U.S. EPA; U.S. EPA Climate Protection Partnerships Division; Rice University Economics; University of Lausanne/ETHZ/University of Zurich Workshop "Can Economic Policy Mitigate Climate Change;" ETH Zurich; University of Lugano; US Association for Energy Economics Annual Conference (Plenary); Cambridge University; University of Massachusetts-Amherst Resource Economics; Yale Industrial Organization Seminar.

2020: AEA Meetings (presenter in 2 sessions, discussant in one); ETH Zurich Winter Course on Empirical Energy Economics; Empirical Methods in Energy Economics (ETH Zurich, Switzerland); Georgia Tech Ray C. Anderson Center for Sustainable Business; American University Global Economy and Development Seminar; Federal Energy Regulatory Commission; Duke University/TREE Seminar; Harvard Environmental Economics Seminar (Covid-19 cancelled); TU Darmstadt (Covid-19 cancelled); Mannheim Energy Conference Keynote (Covid-19 cancelled); Harvard-Berkeley-Yale Virtual Seminar on Economics of Climate Change and Energy Transition; U.S. Department of Energy EERE; 4th Conference on Structural Dynamic Models Plenary (University of Zurich; Covid-19 cancelled); World Congress of the Econometric Society; U.S. Department of Energy SEEDS Project Workshop; NBER Energy Use in Transportation (discussant); University of Southern California Environment Seminar; UT-Austin Bureau of Economic Geology; Swedish-American Chamber of Commerce for Nordea;



NBER Economics of Innovation Meeting (discussant); Stanford Workshop on the Economics of Electrified Transportation (cancelled due to Covid-19); Yale School of the Environment Biomes Seminar; Advances with Field Experiments Conference (University of Chicago); RFF Workshop on Evaluating Climate-Oriented Economic Recovery Programs; London School of Economics Grantham Climate Change & Environment Seminar; Penn State Integrating Science & Ethics in Climate Risk Management Seminar; IMF World Economic Outlook Report Release Event Discussant; Duke University/TREE Seminar; World Bank/UC Berkeley Infra4Dev Conference; Yale Planetary Solutions Conference.

2019: AEA Meetings (panelist & discussant); Ifo Institute (Munich, Germany); Georgetown University; University of Connecticut ARE; University of Maryland AREC; NBER Conference on the Economics of Energy Use in Transportation; New England Energy Conference (keynote); AERE Summer Conference (Incline Village, CA); New England Conference of Public Utility Commissioners (panelist); Cowles Foundation Structural Microeconomics Summer Conference; Northeast Workshop on Energy Policy & Environmental Economics (Harvard University); Empirical Methods in Energy Economics (Quebec City, Canada); RWI Empirical Environmental Economics Workshop (Essen, Germany); NESCAUM Director's Meeting; Advances with Field Experiments Conference (University of Chicago); University of Alabama; KU Leuven; CESifo Area Conference on Climate and Energy (Munich, Germany); Georgia Tech Economics; International Monetary Fund Workshop on Climate Change (Washington, DC).

2018: 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; CT Dept Energy & Environmental Protection; US Association for Energy Economics Plenary Speaker (Washington, DC); CESifo Area Conference on Climate and Energy (Munich, Germany); Georgia State University Economics, University of Copenhagen URBAN Conference.

2017: AEA Meetings (discussant, panelist, and session presider); U.S. Energy Information Administration; Yale F&ES; 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 Area Conference on Climate and Energy (Munich, Germany); BECC Conference (Sacramento), TE<sub>3</sub> 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); CIRED (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 Ef-

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.

## Grants

“Patterns and Value of Co-Adoption of Solar and Related Technologies,” U.S. Department of Energy, PI, 2021-2024 (\$2,053,751)

“Yale-Iberdrola-Avangrid Energy Innovation Collaboration,” Avangrid, ‘Solar + Storage’ Project PI, 2019-2021 (\$624,577 total; \$247,498 for project).

“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 (\$20,000).

“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).

## Teaching

### Yale University

Spring 2023: ENV 800 Energy Economics and Policy Analysis, 33 students + 2 auditors

Spring 2023: ENV 805 Environmental Economics Seminar (co-taught), 13 students + several auditors

Fall 2022: ENV 905 Ph.D. Environmental and Energy Economics, 7 students + 4 auditors

Fall 2022: ENV 805 Environmental Economics Seminar (co-taught), 5 students + several auditors

Spring 2022: ENV 800 Energy Economics and Policy Analysis, 68 students + 3 auditors

Spring 2022: ENV 805 Environmental Economics Seminar (co-taught), 3 students + several auditors

Spring 2022: ENV 561 Energy Justice Seminar, 41 students + 7 auditors

Fall 2020: ENV 800 Energy Economics and Policy Analysis, 31 students + 6 auditors

Fall 2020: ENV 805 Environmental Economics Seminar (co-taught), 11 students

Spring 2020: F&ES 905 Ph.D. Environmental and Energy Economics, 7 students + 3 auditors

Spring 2020: F&ES 805 Environmental Economics Seminar (co-taught), 9 students + 2 auditors

Fall 2019: F&ES 800 Energy Economics and Policy Analysis, 44 students + 3 auditors

Fall 2019: F&ES 805 Environmental Economics Seminar (co-taught), 9 students + 2 auditors

Spring 2019: F&ES 805 Environmental Economics Seminar (co-taught), 4 students + 3 auditors

Fall 2018: F&ES 800 Energy Economics and Policy Analysis, 44 students

Fall 2018: F&ES 805 Environmental Economics Seminar (co-taught), 6 students + 4 auditors

Spring 2017: F&ES 905 Ph.D. Environmental and Energy Economics, 7 students + 1 auditor

Spring 2017: F&ES 805 Environmental Economics Seminar (co-taught), 14 students

Spring 2017: F&ES 800 Energy Economics and Policy Analysis, 51 students

Fall 2016: F&ES 805 Environmental Economics Seminar (co-taught), 18 students

Spring 2015: F&ES 905 Ph.D. Environmental and Energy Economics, 6 students + 2 auditors

Spring 2015: F&ES 805 Environmental Economics Seminar (co-taught), 5 students + 10 auditors  
 Spring 2015: F&ES 800 Energy Economics and Policy Analysis, 40 students  
 Fall 2014: F&ES 805 Environmental Economics Seminar (co-taught), 11 students  
 Spring 2013: F&ES 800 Energy Economics and Policy Analysis, 43 students  
 Spring 2013: F&ES 805 Environmental Economics Seminar (co-taught), 17 students  
 Fall 2012: F&ES 904 Ph.D. Environmental and Energy Economics, 16 students  
 Fall 2012: F&ES 805 Environmental Economics Seminar (co-taught), 22 students  
 Spring 2012: F&ES 805 Environmental Economics Seminar (co-taught), 10 students  
 Fall 2011: F&ES 505 Economics of the Environment, 68 students  
 Fall 2011: F&ES 805 Environmental Economics Seminar (co-taught), 15 students  
 Assorted guest lectures for Yale courses (2-3 per year).

#### **National Science Foundation SCRiM Summer Institute (Penn State)**

Integrated Assessment Modeling Tutorial.

#### **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**

Simon Lang (4th year), Jocelyn La Fleur (1st year)

#### **Ph.D. Committee Member**

Matt Gordon (5th year), Winston Hovekamp (econ 4th year), Michael Blair (SOM Operations 4th year), Gabe Gadsden (YSE 2nd year), Connor Forsyth (CMU 4th year), Brian Reed (Stanford 5th year)

#### **Post-doc Advisor**

Asa Watten, Xingchi Shen, Stephanie Weber

#### **Masters Independent Study Advisor**

Tyler Stotland (MESc '23), Weixi Wu (MESc '23), Gabe Snashall (MESc '23), Seung Min Kim (MESc '23)

#### **Undergraduate Senior Essays**

Tracy Zhou (econ '23), Naomi Shimberg (EPE '23), Evan Lipton (SDS '23)

*Advisee Alumni***Ph.D. Primary Advisor**

Paul Wolfram '21 (Joint Global Change Research Institute post-doc)

Peter Berrill '21 (Marie Curie Fellowship at TU Berlin)

Stephanie Weber '21 (Yale post-doc)

Wade Davis '21 (U.S. EPA NCEE)

Hao Deng '20 (Yale post-doc; OnLocation consultancy)

Paige Weber '19 (UNC Chapel Hill)

(co-advised) Jesse Burkhardt '16 (Colorado State University)

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

Zihan Zhuo '20 (Fudan University)

Jonghyun Yoo '20 (Georgia Tech post-doc)

Nicholas Snashall-Woodhams '20 (UT Austin McCombs)

Jake Ward CMU'20 (US Dept of Energy)

Arthur Yip CMU'20 (NREL)

Evan Sherwin CMU'19 (Stanford post-doc)

Tamar Makov '19 (Ben-Gurion University)

Waldemar Marz LMU Munich'19 (Ifo Institute post-doc)

Kellie Stokes '18 (NASA)

Nikki Springer '18 (MugenKioku Consultants)

Gil DePaula '17 (Iowa 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; Southern Connecticut State)

**Former Post-doctoral Scholars (first placement)**

Andres Gonzales-Lira '22 (PUC Chile)

Marta Talevi '22 (VU Amsterdam)

Marten Ovaere '20 (University of Ghent)

Pei Huang '20 (ZWI Mannheim)

Stefano Carattini '18 (Georgia State University)

Stefan Lamp '16 (Toulouse School of Economics Research Fellow)

Tsvetan Tsvetanov '15 (University of Kansas)

**Masters Thesis Advising**

Lucy Shim (McKinsey), Hilary Staver (E3), Paige Weber (Ph.D. student at F&ES), 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), Benjamin Dawson (MEM '16), Sarah Freel (MEM '15), Elizabeth Youngblood (Harvard MEM '15), Emily Wier (MEM '17), Erik Lyon (MEM '19), Nate Grady (MEM '19), Jane Culkin (MEM '19), Tim Bialecki (MEM '19), Corey Cantor (MEM '19), Zach Ratner (MEM '19), Daniel Csonth (MEM '20), Tyler Clevenger (MEM '21), Akshyah Krishnakumar (MEM '22), Elizabeth Stagg (MEM'22)

### **Undergraduate Senior Essays**

Ana Grajales (economics '13), Daniel Cheng (math-econ '13), Blake Hofmeister (economics '15), Brandon Blaesser (economics\env. studies '15), Sade Kammen (poli sci '19), Kevin Liang (env. studies '19), William Arnesen (economics '20), Will Mukamal (EVST/ECON '22), Ryley Constable (ECON '22)

### **Masters Advisees**

80+ Advisees since 2011.

## **Service to Yale**

Yale Advisory Committee on Investor Responsibility (2022-present)  
 Yale Standing Advisory and Appointments Committee for the School of Management and Yale Jackson School of Global Affairs (2022-present)  
 MESC/MF Admissions Committee (2023)  
 YSE Urbanization and the Environment Search Committee (2022-present)  
 YSE Expanded Learning Innovation (ELI) Committee (2022-present)  
 Yale School of the Environment Energy Specialization Chair (2018-present)  
 Yale College Energy Studies Advisory Committee (2016-present)  
 Yale F&ES Research Committee (2019-2021)  
 Yale F&ES Masters Program Committee (2018-2021)  
 Yale University President's Task Force on Decarbonization (2019-2020)  
 Yale F&ES Faculty Search Planning Committee (2019-2020)  
 Yale F&ES Community and Governance Committee (2019-2020)  
 Yale F&ES Strategic Vision Committee (2016-2017)  
 Yale Climate & Energy Institute (YCEI) Steering Committee (2013-2015)  
 Yale Carbon Pricing subcommittee (2015)

## **Honors and Awards**

2022 ISM Gary Lilien Practice Prize Competition Finalist (for Bollinger et al.), 2022  
 AMA-EBSCO Responsible Research in Marketing Award (for Kraft-Todd et al.), 2020  
 USAEE/IAEE 2019 Working Paper Best Paper Award, 2020  
 Full Member, Sigma Xi, 2011  
 Dennis O'Brian Best Student Paper Award, US Association for Energy Economics, 2010  
 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

## Professional Service

### *Leadership in Professional Organizations*

Vice President of Academic Affairs, U.S. Association for Energy Economics, 2021-present

### *Editorial Boards*

Editorial Board of *Energy Journal*, 2017-present  
 Editorial Board of *Energy Efficiency*, 2016-present

### *Conferences Co-Organized*

Empirical Methods in Energy Economics Workshop (Jan 9-10, 2023 at Yale)  
 Northeast Workshop on Energy Policy & Environmental Economics (June 14-15, 2021 at UPenn)  
 Empirical Methods in Energy Economics (currently scheduled for January 3-5, 2021 at Yale)  
 Northeast Workshop on Energy Policy & Environmental Economics (June 13-14, 2019 at Harvard)  
 Northeast Workshop on Energy Policy & Environmental Economics (May 17-18, 2018 at Columbia)  
 Northeast Workshop on 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*

External Advisory Committee for Alfred P. Sloan Foundation Energy & Environment Program, 2021-present  
 Scientific Council for FAUST Research Project (Munich), 2020-present  
 Network Organizer for Empirical Methods in Energy Economics International Network, 2019-present  
 Executive Committee, External Environmental Economics Advisory Committee for the U.S. EPA, 2018-2021  
 Nominating Committee for AERE Board, 2019  
 Scientific Advisory Board, RFF Social Cost of Carbon Initiative, 2018-present  
 External Advisory Board, CMU Center for Climate and Energy Decision Making, 2018-present

### *Referee Service*

**Economics Journals:** *American Economic Journal: Applied*, *American Economic Journal: Economic Policy*, *American Economic Review*, *American Economic Review: Insights*, *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 Choice Modelling, 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 Law & Economics, Journal of Public Economics, Journal of Political Economy, Journal of Urban Economics, Management Science, Marketing Science, Oxford Economic Papers, Quantitative Economics, 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 Economic Studies, Review of Environmental Economics & Policy, Review of Industrial Organization, Scandinavian Journal of Economics, Southern Economic Journal, The Manchester School, World Bank Economic Review.*

**Environment/Engineering/Policy/Science Journals:** *Annual Review of Environment & Resources, 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, Proceedings of the National Academy of Sciences, Science, Sustainable Cities and Society, Transportation Research A, Transportation Research D, Utilities Policy.*

### *Review Service*

AERE Summer Conference Review Committee, Alfred P. Sloan Foundation, Alliance for Research on Corporate Sustainability, Danish Council for Strategic Research, KU Leuven, Leibniz Programme for Women Professors (Germany), 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, Czech 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)

### *External Engagement*

Primary economics expert witness/consultant to California Attorney General's office on fuel economy standards

Advisory assistance to Connecticut Dept of Energy and Environmental Protection, Connecticut Green Bank, and Center for Applied Environmental Law & Policy

## Professional Affiliations

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

## In the Media

Christen Science Monitor: "Sticks Plus Carrots: How Realistic is Biden's Electric-car Target?" Apr 12, 2023

Salon.com: "Is a Post-Car Future Actually Possible? Experts Say Yes—Here's How We Could Get There," Apr 9, 2023

Connecticut Magazine: "The Changing Face of Nuclear Power: New Tech Could Lead to an Energy Renaissance," Feb 22, 2023

Washington Post: "Telework is Better for the Planet, Federal Union Argues," Feb 22, 2023

Connecticut Public Radio: "A Yale Professor Says Blame Putin for Big Eversource and UI Electric Rate Hikes," Nov 29, 2022

WFSB Eyewitness News Channel 3: "Why Are Energy Prices Higher in CT Than Across the Country?" Nov 17, 2022

GW Hatchet: "Solar panel costs drop with global trading, SEAS professor finds," Nov 7, 2022

Daily Mail: "End of the Road: NY Will Join California in Banning Sale of New Gas-Powered Cars by 2035," Oct 3, 2022

Yale News: "YSE Experts React to Major Federal Climate, Energy Investment," Aug 11, 2022

JStor Daily: "How Much Does it Cost to Reduce Carbon Emissions?," Jul 15, 2022

Courier Journal: "Food or Gas? As Louisville Pump Prices Rise to Almost \$5, Experts have Dire Warning," Jun 3, 2022

Financial Post: "Electric Vehicles Seen As 'Springboard' for Revival of Canada's Auto Industry," May 11, 2022

Yale Daily News: "Yale's Labs Aim to Address Chronic Energy Inefficiency," Apr 28, 2022

Popular Science: "Car Owners: Here's When Experts Say You Should Switch to an EV," Apr 25, 2022

CT Mirror: "CT Plans a Green Hydrogen Path, But it has Potholes," Apr 13, 2022

NBC WHO 13 Des Moines: "Still Rare in Iowa, Electric Car Powers Des Moines Family's Home During Blackouts," Apr 8, 2022

Connecticut Public Radio: "Connecticut Drivers Are Getting A Reprieve from Steep Gas Prices, But Social Costs Remain High," Apr 1, 2022

WHO13 Des Moines: "In the Race for Electric Cars, Biofuels Hold Iowans Back," Apr 1, 2022

CT News Junkie: "Direct-to-Consumer EV Enthusiasts Try Again," Mar 15, 2022

Popular Science: "What the Bans on Russian Fossil Fuels Actually Mean," Mar 10, 2022

Washington Post: "Pence-backed Ad Falsely Blames Biden for Hike in Purchases of Russian Oil," Mar 9, 2022

CleanTechnica.com: "Yale Study Puts the Kibosh on EV Emissions Myth," Feb 23, 2022

New York Times: "Why This Could be a Critical Year for Electric Cars," Jan 8, 2022

Energy News Network: "Groups Urge Bigger Targets, More Equity as RGGI States Consider Changes," Dec 21, 2021

Yale News: "Solar on the American Mind," Dec 1, 2021

BBC News (TV): "COP26 China-US Announcement," Nov 11, 2021

BBC Radio 5: "Interview on China-US Announcement," Nov 10, 2021

Sierra: "Revolutionizing the Transportation System Means Cleaning Up the Nation's Ports," Oct 27, 2021

DW.com: "Do France's Plans for Small Nuclear Reactors Have Hidden Agenda?" Oct 22, 2021

Vice: "From Soda to Blackouts, A Global Gas Crisis is Causing Havoc," Oct 12, 2021

Forbes: "Carbon Tax Floated On Capitol Hill, While Similar Proposals Fall Flat in Blue States," Sep 30, 2021

Ideas.Ted.com: "Here's How Your Climate-Related Choices are Contagious (in a Good Way!)," Sep 23, 2021

World Economic Forum: "Here's How Efficient Building Design Can Save Lives and Energy," Sep 17, 2021

NPR Marketplace Morning Report: "Investment in Solar Power Key to Biden's Green Energy Goals," Sep 9, 2021

Anthropocene: "Researchers Calculated How Many Lives Energy-Efficient Buildings Could Save," Aug 31, 2021

The Science Times: "Energy Efficiency in the US Buildings Could Decrease Thousands of Annual Premature Deaths Due to Particulate Matter," Aug 23, 2021

News-Medical/Life Sciences: "Energy-Efficient Buildings Could Prevent Thousands of Premature Deaths Every Year," Aug 20, 2021

Washington Post: "Sales of Hybrid Cars are Surging. That's a Good Sign for the Future of Electric Vehicles, Experts Say," Aug 6, 2021

E&E News: "Biden Car Rules May Backfire on EVs - Report," Jul 29, 2021

The Economic Times (India Times): "Consumers Understand Climate Science Better Now - Their Ecological Choices are Shaped by Peers, Visibility, and Messaging," Jul 3, 2021

Anthropocene: "Hitting Climate Targets Depends on Building Smaller Homes and More Multifamily Units—Not Just Energy Efficiency," May 11, 2021

E&E News: "Study Warns Housing Trends Could Cancel Out CO<sub>2</sub> Cuts," May 11, 2021

YaleNews: "What is Driving Reductions in Residential Greenhouse Gas Emissions in the U.S.?" May 5, 2021

E&E News: "Carbon Price Could Hike Coal Use for EVs—Study," Apr 30, 2021

E&E News: "Solar 'Contagiousness': A Key for Environmental Justice?" Apr 29, 2021

Yale Daily News: "Yale Creates New Principles for Divestment from Fossil Fuels," Apr 16, 2021

YaleNews: "New Principles Regarding Fossil Fuels to Guide Yale's Endowment," Apr 16, 2021

National Geographic: "Gas Heat and Stoves are Warming the Climate. Should Cities Start Banning Them?" Apr 2, 2021

Green Car Congress: "UMD Collaborative Study Finds that Fuel Efficiency of One Car in Household May be Cancelled by Next Car Purchase," Mar 3, 2021

Economist: "What is the Cheapest Way to Cut Carbon?" Feb 22, 2021

Politifact: "Joe Biden: 84% of All New Electric Capacity Planned This Year is Clean Energy," Jan 27, 2021

LiveScience: "What is Renewable Energy? Is Renewable Energy Better than 'Dirty' Fossil Fuels?" Jan 3, 2021

Popular Science: "Your Retirement Account Can Also Help Protect the Environment," Dec 31, 2020

Popular Science: "Switching Your Bank Might Help Slow the Climate Crisis," Dec 29, 2020

CT Mirror: "CT Signs on to Regional Plan to Cut Transportation Emissions," Dec 21, 2020

E&E News: "Renewable Targets May 'Undermine' CO<sub>2</sub> Goals - Report," Nov 19, 2020

Mic: "California is Banning Gas-Powered Car Sales. Here's How it Will Work," Sep 24, 2020

New York Times: "Behavioral Contagion Could Spread the Benefits of a Carbon Tax," Aug 19, 2020

Nature: "Self-interest Powers Decision to Go Solar," Aug 12, 2020

Scientific American: "COVID Pandemic-19 Shows Telecommuting Can Fight Climate Change," Jul 22, 2020

Environmental Health News: "Beyond the 'Silver Lining' of Emissions Reductions: Clean Energy Takes a Covid-19 Hit," Jul 9, 2020

Yale Alumni Magazine: "Driving Lessons: People Underestimate the Cost of Owning a Car," Jul/Aug 2020

Phys.org: "Climate Economics Nobel May Do More Harm Than Good," Jul 6, 2020

Financial Post/Bloomberg Green: "Drastic Covid-19 Slowdown May Hinder Any Green Recovery," Jun 30, 2020

E&E News: "Electricity, Covid-19 and Carbon: 3 Issues to Watch," Jun 26, 2020

E&E News: "Clean Energy Crash Could Spur 15-year CO<sub>2</sub> Spike—Study," Jun 24, 2020

DowntoEarth: "Green Energy Funding Delays to Offset Covid-19 Environmental Gains: Study," Jun 24, 2020

Engineering & Technology: "Pandemic-related Carbon Reduction Could be Offset by Faltering Economies," Jun 23, 2020

BBC (Radio): "World Business Report," Jun 5, 2020

Carbon Brief: "Fuel Savings in US Cars Have 'Cut 17Bn Tonnes of CO<sub>2</sub> Since 1975,'" May 19, 2020

USA Today: "Fact Check: The Coronavirus Pandemic Isn't Slowing Climate Change," May 11, 2020

Energy News Network: "Against Headwinds, Connecticut Lays Out Path to Put More Electric Vehicles on the Road," May 5, 2020

DW.com: "Working from Home, Even When the Coronavirus Crisis Has Passed," May 1, 2020

Welt.de (German-language): "Car Costs," Apr 29, 2020

Christian Science Monitor: "Bluer Skies, Less Greenhouse Gas. What Happens After the Pandemic?" Apr 29, 2020

Yale News: "If People Grasped the Full Cost of Cars, They Might Make Greener Choices," Apr 23, 2020

Suddeutsche Zeitung (German-language): "(Much) More Expensive Than You Think," Apr 22, 2020

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