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Research Interests

Industrial organization, energy and environmental economics

Appointments

Professor, Harris Public Policy, University of Chicago, 2016 – present
Deputy Dean, Harris Public Policy, University of Chicago, 2018 – present
Research Associate, National Bureau of Economic Research, 2012 – present
Associate Professor, Department of Economics, University of Michigan, 2012 - 2016
Visiting Researcher, Energy Institute at Haas, 2011 – 2012
Faculty Research Fellow, National Bureau of Economic Research, 2009 – 2012
Assistant Professor, Department of Economics, University of Michigan, 2008 – 2012

Degrees

Ph.D. University of California, Berkeley, Agricultural and Resource Economics, 2008
M.Sc. University of California, Berkeley, Agricultural and Resource Economics, 2004
B.A. Rice University, Economics, 1999
B.Sc. Rice University, Chemical Engineering, 1999

Editorial Positions

Editorial Board, *American Economic Journal: Economic Policy*, 2016 - present
Associate Editor, *RAND Journal of Economics*, 2015 - present
Associate Editor, *International Journal of Industrial Organization*, 2013 – 2016

Publications

Anderson, Soren T., Ryan Kellogg, and Stephen W. Salant, “Hotelling Under Pressure”, *Journal of Political Economy* 126 (June, 2018), 984-1026.
Kellogg, Ryan, “Gasoline Price Uncertainty and the Design of Fuel Economy Standards”, *Journal of Public Economics* 160 (April, 2018), 14-32.
Albouy, David, Walter Graf, Ryan Kellogg, and Hendrik Wolff, “Climate Amenities, Climate Change, and American Quality of Life”, *Journal of the Association of Environmental and Resource Economists* 3 (March, 2016), 205-246.
Anderson, Soren T., Ryan Kellogg, Ashley Langer, and James M. Sallee, “The Intergenerational Transmission of Automobile Brand Preferences: Empirical Evidence and Implications for Firm Strategy”, *Journal of Industrial Economics* 63 (Dec., 2015), 763-793.

- Hausman, Catherine and Ryan Kellogg, “Welfare and Distributional Implications of Shale Gas”, *Brookings Papers on Economic Activity* (spring 2015), 71-125.
- Kellogg, Ryan, “The Effect of Uncertainty on Investment: Evidence from Texas Oil Drilling”, *American Economic Review* 104 (June, 2014), 1698-1734.
- Borenstein, Severin and Ryan Kellogg, “The Incidence of an Oil Glut: Who Benefits from Cheap Crude Oil in the Midwest?” *Energy Journal* 35 (Jan., 2014), 15-33.
- Anderson, Soren T., Ryan Kellogg, and James M. Sallee, “What Do Consumers Believe About Future Gasoline Prices?” *Journal of Environmental Economics and Management* 66 (Nov., 2013), 383-403.
- Borenstein, Severin, Meghan Busse, and Ryan Kellogg, “Career Concerns, Inaction, and Market Inefficiency: Evidence from Utility Regulation”, *Journal of Industrial Economics* 60 (June, 2012), 220-248.
- Kellogg, Ryan, “Learning by Drilling: Inter-Firm Learning and Relationship Persistence in the Texas Oilpatch”, *Quarterly Journal of Economics* 126 (Nov., 2011), 1961-2004.
- Auffhammer, Maximilian and Ryan Kellogg, “Clearing the Air? The Effects of Gasoline Content Regulation on Air Quality”, *American Economic Review* 101 (Oct., 2011), 2687-2722.
- Anderson, Soren T., Ryan Kellogg, James M. Sallee, and Richard T. Curtin, “Forecasting Gasoline Prices Using Consumer Surveys”, *American Economic Review Papers & Proceedings* 101 (May, 2011), 110-114.
- Kellogg, Ryan and Hendrik Wolff, “Daylight Time and Energy: Evidence from an Australian Experiment”, *Journal of Environmental Economics and Management* 56 (Nov., 2008), 207-220. Recipient of the 2009 *JEEM* best paper award.

Working Papers

- Covert, Thomas R. and Ryan Kellogg, “Crude by Rail, Option Value, and Pipeline Investment”, NBER working paper #23855 (2017).
- Herrnstadt, Evan, Ryan Kellogg, and Eric Lewis, “Information Asymmetry, Drilling Distortions, and Oil and Gas Leases” (2017).

Work In Progress

- Kellogg, Ryan and James Sallee, “Durable Goods Demand and the Rationality of Consumers’ Price Expectations: Evidence from Gasoline and Diesel”.
- Kellogg, Ryan, “Output and Attribute-Based Carbon Regulation Under Uncertainty”.

Older Working Papers

- Kellogg, Ryan, “The Pollution Haven Hypothesis: Significance and Insignificance” (2007).

Grants and Awards

NSF Research Traineeship (NRT) Grant for “Computational Data Science to Advance Research at the Energy-Environment Nexus”, 2017 (co-I, \$3,000,000)
Alfred P. Sloan Foundation Grant for NBER program to support pre-doctoral fellowships in energy economics, 2015 (co-PI, \$724,500)
Alfred P. Sloan Foundation Grant for NBER research initiative on the Economics of Energy Infrastructure, 2015 (co-PI, \$588,800)
MITRE Faculty Research Award for “Asymmetric Information, Royalty Distortions, and Drilling Deadlines: Understanding Oil and Gas Lease Contracts,” 2014 (\$8,000)
Ralph C. d’Arge and Allen V. Kneese Award for Outstanding Publication in the *Journal of Environmental Economics and Management*, 2009
Sloan Industry Studies Program Site Visit Grant, 2009 (co-PI, \$4,400)
Berkeley Competition Policy Center Dissertation Award, 2009
Sloan Industry Studies Dissertation Award, First Prize, 2008
Coleman Fung Risk Management Grant for “The Effect of Uncertainty on Investment: Evidence from Texas Oil Drilling,” 2007
Coleman Fung Risk Management Grant for “Principal-Agent Incentives, Excess Caution, and Market Inefficiency: Evidence from Utility Regulation,” 2007
Outstanding Graduate Student Instructor Award, spring 2006

Industry Experience

BP (formerly British Petroleum): June 1999 – July 2003 (Houston, TX and Anchorage, AK)
Well test engineer; economic analyst for the Alaska Gas Pipeline Project and Alaska oilfield developments

Teaching

Harris Public Policy, University of Chicago

Undergraduate industrial organization and regulation. Mean evaluation score: 4.5

Masters industrial organization and regulation. Mean evaluation score: 4.7

PhD energy and environmental economics. Mean evaluation score: 4.6

Economics Department, University of Michigan

Undergraduate industrial organization. Mean evaluation score: 4.6

PhD industrial organization. Mean evaluation score: 4.9

PhD resource and environmental economics. Mean evaluation score: 4.8

Teaching evaluations are on a 1 to 5 scale; scores shown are the mean over all years taught

Conference and Workshop Presentations

Research presentations: AEA Annual Meeting (2009, 2010, 2018), AERE Summer Conference (2008, 2011, 2013, 2016), Bank of Canada Workshop on Commodity Super Cycles (2015), Cowles Structural Microeconomics Conference (2011), Economics of Low Carbon Markets Workshop, Ribeirão Preto, Brazil (2014), EIA Workshop on Financial and Oil Market Linkages (2014), Energy Institute at Haas Energy Camp (most years 2007-2018), Heartland Environmental and Resource Economics Workshop (2016), International IO Conference

(2006, 2009), Iowa State Bioenergy Camp (2010), Midwest Energy Fest (2016), MSU / UM / Wayne State Summer Energy and Environmental Economics Workshop (2008, 2009, 2010, 2012), NBER Corporate Associates Research Symposium (2015), NBER EEE (summer 2009, winter 2010, summer 2017), NBER EEE-IO (winter 2014), NBER IO (summer 2007, summer 2010, summer 2013, summer 2018), NBER-ICRIER Neemrana Conference, India (2015), Northeast Workshop on Energy Policy and Environmental Economics (2012), Occasional California Workshop in Environmental and Resource Economics (2006, 2008), PERC Workshop on Innovation, Property Rights, and Structures of Energy (2017), POWER Conference on Energy Research and Policy (2007, 2009), SITE summer workshop (2011), UC IGCC Workshop on the Environment and Human Capital (2012), UM Conference on Transportation, Economics, Energy, and the Environment (2016), Winter Marketing-Economics Summit (2015-2018)

Discussant: AEA Annual Meeting (2009, 2010, 2011, 2013, 2015, 2016, 2017), Alliance for Research on Corporate Sustainability (2009), Harrington Fellows Conference on IO (UT Austin, 2014), International IO Conference (2006, 2009), NBER EEE (summer 2010, summer 2015, winter 2018), NBER IO (summer 2011), Northeast Workshop on Energy Policy and Environmental Economics (2013), Occasional California Workshop in Environmental and Resource Economics (2008), University of Chicago and RFF Conference on Energy Policy (2011), University of Michigan Erb Institute (2009), Yale Marketing-IO Conference (2013)

Keynote: COPEL Forum on Economics, Energy, and Sustainable Development (2017)

Panelist: Heartland Environmental and Resource Economics Workshop (2014)

Seminar Presentations

Aalto (2016), Analysis Group (2016), Arizona State (2011), Australia National University (2015), Bank of Canada (2010, 2012), Case Western (2014), Columbia (Econ (2016), GSB (2009)), Cornell (2012), Dallas Fed (2017), Duke (2009, 2015, 2016), EPA (2011), Federal Reserve Board (2016), FGV-Rio (2017), Harvard (KSG (2009)), Harvard/MIT (joint (2009)), Indiana (Kelley (2010)), Iowa State (2017), Kansas City Fed (2014), Mannheim (2016), Michigan State (2008, 2009), MIT (Econ (2014), Sloan (2008, 2012)), Monash (2015), Montana State (2017), Northwestern (Econ (2016), Kellogg (2011)), Norwegian School of Economics (2016), NYU (2011), Oberlin (2018), Ohio State (2009, 2013), Oxford (OxCarre (2015)), Penn State (2016), Pitt/CMU (joint (2018)), Princeton (Econ (2014), Wilson (2013)), Property and Environment Research Center (2017), PUC-Chile (2017), PUC-Rio (2017), Resources for the Future (2011), Rice (2011, 2017), Simon Fraser (2018), Stanford (Econ (2018), GSB (2008, 2012)), Texas A&M (2011), Tinbergen Institute (2015), Toulouse (2016), Tulane (Energy Institute (2009)), University of Arizona (2017), UBC (2018), University of Calgary (2010), UC Berkeley (ARE (2008, 2012, 2017), Haas (2010)), UC Davis (2008, 2012), UC San Diego (2012), UC Santa Barbara (2008, 2016), University of Chicago (Booth (2008, 2011, 2012, 2015), EPIC (2012, 2015), Harris (2016)), University of Colorado (2016), University of Illinois (2012), University of Maryland (ARE (2008), Econ (2011)), University of Melbourne (2015), University of Michigan (Econ (2008, 2013), Erb (2009), Ross (2013)), University of Minnesota (Applied Econ (2012), Econ (2010)), University of New South Wales (2015), University of Oregon (2012), University of Pennsylvania (Wharton (2015)), UT Austin (2012), University of Utah (Finance (2016)), University of Washington (2010), University of

Wisconsin (AAE (2011)), University of Wyoming (2008), Washington University (2016), Wayne State (2012), Yale (joint Econ, FES (2012), SOM (2008))

Media Coverage (selected)

Contributor to Forbes.com, 2018 – present

“Crude by Rail, Option Value, and Pipeline Investment” featured in *Houston Chronicle*, *Midwest Energy Report*, and *The Record*

“Welfare and Distributional Implications of Shale Gas” featured in *New Republic* and *VoxEU*

“The Intergenerational Transmission of Automobile Brand Preferences: Empirical Evidence and Implications for Firm Strategy” featured in *The Wall Street Journal* and *The Washington Post*

“The Incidence of an Oil Glut: Who Benefits from Cheap Crude Oil in the Midwest?” featured in *The Wall Street Journal*

“Daylight Time and Energy: Evidence from an Australian Experiment” featured on ABC National News, CBC Newsworld, CBC Radio One, Australia ABC Radio National, Public Radio International, *National Geographic*, *The Wall Street Journal*, *USNews*, and local television, radio, and newspapers

Dissertation Advising

Paul Brehm (co-chair). University of Michigan, 2017

Initial placement: Oberlin College, Department of Economics

Sarah Johnston (co-chair). University of Michigan, 2017

Initial placement: University of Wisconsin, Department of Economics (post-doc)

Harim Kim (co-chair), University of Michigan, 2017

Initial placement: University of Mannheim , Department of Economics (post-doc)

Ben Meiselman (committee member). University of Michigan, 2017

Initial placement: Johns Hopkins University (post-doc)

Yiyuan Zhang (co-chair). University of Michigan, 2017

Initial placement: Analysis Group

Mike McWilliams (committee member). University of Michigan, 2016

Initial placement: Research Seminar in Quantitative Economics, University of Michigan

Mike Palazzolo (committee member). University of Michigan, 2016

Initial placement: UC Davis Graduate School of Management

Jacqueline Doremus (chair). University of Michigan, 2015

Initial placement: California Polytechnic University, Department of Economics

Reid Dorsey-Palmateer (chair). University of Michigan, 2015

Initial placement: Western Washington University, Department of Economics

Evan Herrnstadt (chair). University of Michigan, 2015

Initial placement: Harvard University, Environmental Fellows Program (post-doc)

Eric Lewis (chair). University of Michigan, 2015

Initial placement: Department of Justice, Antitrust Division, Economic Analysis Group
James Wang (committee member). University of Michigan, 2015
Initial placement: Federal Reserve Board of Governors, Banking Supervision Group
Erik Johnson (co-chair). University of Michigan, 2011
Initial placement: Georgia Tech, Department of Economics
Owen Kearney (committee member). University of Michigan, 2011
Initial placement: U.S. Dept. of Treasury, Office of Economic Policy

Service (selected)

University of Chicago Board of the Library, 2017 - present
University of Chicago Student Disciplinary Committee, 2017 – present
Oberlin College External Honors Examiner, 2018
Sloan Foundation Energy and Environment Program External Advisory Committee, 2016 - present
Co-organizer, NBER research initiative on the Economics of Energy Infrastructure, 2014 – present
Director, Michigan Institute for Teaching and Research in Economics (MITRE), 2013 - 2016
Faculty Council, University of Michigan Energy Institute, 2013 – 2016
Co-organizer, UM Conference on Transportation, Economics, Energy, and the Environment (TE3), 2014 – 2016
UM Economics Department Executive Committee, 2012 - 2014
Founder, UM Energy and Environmental Economics Seminar Series, 2013
Co-organizer: MSU / UM / Wayne State Environmental Economics Summer Workshop (2009-2013)
Co-organizer: NBER IO meeting, winter 2013
Referee for *Agricultural and Resource Economics Review*; *American Economic Journal: Applied Economics*; *American Economic Journal: Economic Policy*; *American Economic Journal: Microeconomics*; *American Economic Review*; *Atmospheric Environment*; *B.E. Journal of Economic Analysis and Policy*; *Census Bureau*; *Contemporary Economic Policy*; *Econometrica*; *Economic Inquiry*; *Economics of Energy and Environmental Policy*; *Energy Economics*; *Energy Journal*; *Environmental and Resource Economics*; *European Economic Review*; *International Economic Review*; *International Journal of the Economics of Business*; *International Journal of Industrial Organization*; *Journal of Applied Econometrics*; *Journal of the Association of Environmental and Resource Economists*; *Journal of Business and Economic Statistics*; *Journal of Economic Theory*; *Journal of Economics and Management Strategy*; *Journal of Environmental Economics and Management*; *Journal of Finance*; *Journal of Human Resources*; *Journal of Industrial Economics*; *Journal of Labor Economics*; *Journal of Law and Economics*; *Journal of Law, Economics, and Organization*; *Journal of Political Economy*; *Journal of Public Economics*; *Macroeconomic Dynamics*; *Management Science*; *National Science Foundation*; *Nature Geoscience*; *Operations Research*; *Quarterly Journal of Economics*; *RAND Journal of Economics*; *Resource and Energy Economics*; *Resources Policy*; *Review of Economic Studies*; *Review of Economics and Statistics*; *Review of Environmental Economics and Policy*; Sloan Foundation; and Smith Richardson Foundation.