

JOSHUA LINN

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Employment

- 2018- Associate Professor, University of Maryland Department of Agricultural and Resource Economics
- 2014- Senior Fellow, Resources for the Future
- 2012-2014 Fellow (indefinite appointment) and Associate Director of the Center for Climate and Electricity Policy, Resources for the Future
- 2010-2012 Fellow, Resources for the Future
- 2008-2010 Research Scientist, MIT
- 2005-2009 Assistant Professor of Economics, University of Illinois at Chicago

Professional and Public Service

- 2014- Journal of Environmental Economics and Management (editorial board, 2014-2017; co-editor, 2017 -)
- 2014-2015 Senior Economist, Council of Economic Advisors

Education

- 2005 Ph.D., Economics, Massachusetts Institute of Technology
- 2000 B.A., Astronomy and Physics, Yale University

Refereed Journal Publications

How Do Low Gas Prices Affect Costs and Benefits of US New Vehicle Fuel Economy Standards (with Virginia McConnell and Benjamin Leard). *Economics of Energy and Environmental Policy*, forthcoming.

Fuel Prices, New Vehicle Fuel Economy, and Implications for Attribute-Based Standards (with Benjamin Leard and Virginia D. McConnell) *Journal of the Association for Environmental and Resource Economics*, vol. 4 (2017): 659-700.

Who Will Be Affected by a Congestion Pricing Scheme in Beijing? (with Zhongmin Wang and Lunyu Xie). *Journal of Transport Policy*, vol. 47 (2016): 34-40.

Technological Change, Vehicle Characteristics and the Opportunity Costs of Fuel Economy Standards (with Thomas Klier). *Journal of Public Economics*, vol. 133 (2016): 41-63.

The Rebound Effect for Passenger Vehicles. *The Energy Journal*, vol. 37 (2016).

Estimating the Job Impacts of Environmental Regulation (with Anna Belova, Wayne Gray, Richard Morgenstern, and William Pizer). *Journal of Benefit-Cost Analysis*, vol. 6, (2015): 325-40.

Using Vehicle Taxes to Reduce Carbon Dioxide Emissions Rates of New Passenger Vehicles: Evidence from France, Germany, and Sweden (with Thomas Klier). *American Economic Journal: Economic Policy*, vol. 7, (2015): 212-42.

Regulating Greenhouse Gases in the Electricity Sector under the Clean Air Act (with Dallas Burtraw and Erin Mastrangelo). *Journal of the Association for Environmental and Resource Economics*, vol. 1/2 (2014): 97-134. Winner, Best Paper Award for 2014.

Gasoline Taxes and Consumer Behavior (with Shanjun Li and Erich Muehlegger). *American Economic Journal: Economic Policy*, vol. 6 (2014): 302-42.

The Effect of Voluntary Brownfields Programs on Nearby Property Values: Evidence from Illinois. *Journal of Urban Economics*, vol. 78 (2013): 1-18.

Renewable Electricity Policy, Intermittency, and Cost-Effectiveness (with Harrison Fell). *Journal of Environmental Economics and Management*, vol. 66 (2013): 688-707.

Fuel Prices and New Vehicle Fuel Economy—Comparing the United States and Western Europe (with Thomas Klier). *Journal of Environmental Economics and Management*, vol. 66 (2013): 280-300.

Evaluating “Cash for Clunkers”: Program Effect on Vehicle Sales and Cost-Effectiveness (with Shanjun Li and Elisheba Spiller). *Journal of Environmental Economics and Management*, vol. 65 (2013): 175-193.

New Vehicle Characteristics and the Cost of the Corporate Average Fuel Economy Standard (with Thomas Klier). *RAND Journal of Economics*, vol. 43 (2012): 186-213.

Incentives of Carbon Dioxide Regulation for Investment in Low-carbon Electricity Technologies in Texas (with Anya Castillo). *Energy Policy*, vol. 39 (2011): 1831-1844.

The Price of Gasoline and New Vehicle Fuel Economy: Evidence from Monthly Sales Data (with Thomas Klier). *American Economic Journal: Economic Policy* vol. 2 (2010): 134-53.

The Effect of Cap-and-Trade Programs on Firms’ Profits: Evidence from the Nitrogen Oxides Budget Trading Program. *Journal of Environmental Economics and Management*, vol. 59 (2010): 1-14.

Why Do Oil Shocks Matter? The Role of Inter-Industry Linkages. *Economic Inquiry*, vol. 47 (2009): 549-567.

Energy Prices and the Adoption of Energy-Saving Technology. *The Economic Journal*, vol. 118 (2008): 1986-2012.

Technological Modifications in the Nitrogen Oxides Tradable Permit Program. *The Energy Journal*, vol. 29 (2008): 153-176.

Bush v. Gore and the Effect of New Source Review on Power Plant Emissions (with Ian Lange). *Environmental and Resource Economics*, vol. 40 (2008): 571-591.

Regulatory Conflict in the Chicago VOC Control Program (with Richard Kosobud, Houston Stokes and Carol Tallarico). *Journal of Environmental Planning and Management*, vol. 51 (2008): 561-579.

Market Size in Innovation: Theory and Evidence from the Pharmaceutical Industry (with Daron Acemoglu). *Quarterly Journal of Economics*, vol. 119 (2004): 1049-1090.

Papers Under Peer-Review

The Roles of Energy Markets and Environmental Regulation in Reducing Coal-Fired Plant Profits and Electricity Sector Emissions (with Kristen McCormack)

The Role of State Policies under Federal Light-Duty Vehicle Greenhouse Gas Emissions Standards (with Virginia McConnell)

The Effect of Vehicle Restrictions on Female Labor Supply (with Antung Anthony Liu, Ping Qin, and Yun Yang)

Vehicle Ownership Restrictions and Fertility in Beijing (with Antung Anthony Liu, Ping Qin, and Yun Yang)

How Much Do Consumers Value Fuel Economy and Performance? Evidence from Technology Adoption (with Benjamin Leard and Yichen Christy Zhou)

Charging Drivers by the Pound: The Effects of the UK Vehicle Tax System (with Davide Cerruti and Anna Alberini)

Interactions between Climate and Local Air Pollution Policies: The Case of European Passenger Cars

Explaining the Evolution of Passenger Vehicle Miles Traveled in the United States (with Benjamin Leard and Clayton Munnings)

Does Electricity Storage Innovation Reduce Greenhouse Gas Emissions? (with Jih-Shyang Shih)

The Effect of Owning a Car on Travel Behavior: Evidence from the Beijing License Plate Lottery (with Jun Yang, Antung Anthony Liu, and Ping Qin)

The Effects of Market Size and Fuel Costs on Fuel-Saving Technology Adoption in Passenger Vehicles (with Thomas Klier and Christy Zhou)

The Long-Run Effects of Housing Location on Travel Behavior: Evidence from China's Housing Reform (with Zhongmin Wang and Lunyu Xie)

Work in Progress

Coal Demand, Market Forces, and US Coal Mine Closures (with Brett Jordan and Ian Lange)

Industrial Competitiveness and State-Level Climate Policy (with Brendan Casey, Wayne Gray and Richard Morgenstern)

The Impacts of Lower Natural Gas Prices on Jobs in the US Manufacturing Sector (with Wayne Gray and Richard Morgenstern)

Other Publications and Unpublished Papers

The Supreme Court's Stay of the Clean Power Plan: Economic Assessment and Implications for the Future (with Dallas Burtraw and Kristen McCormack). *Environmental Law Reporter*, vol. 46 (October 2016): 10859-72.

Comments on Midterm Evaluation Draft Technical Assessment Report for Model Year 2022-2025 Light Duty Vehicle GHG Emissions and CAFE Standards (with Virginia McConnell, Benjamin Leard, and Kenneth Gillingham), RFF Report 2016.

Do Low Oil Prices Undermine the US Passenger Vehicle Fuel Economy Standards? (with Benjamin Leard and Virginia McConnell). RFF Policy Brief 16-08.

Is Halting the Clean Power Plan Economically Justified? (with Dallas Burtraw and Kristen McCormack). *Resources*, vol. 193: 26-9.

Employment and Output Leakage under California's Cap-and-Trade Program (with Wayne B. Gray and Richard D. Morgenstern). RFF Discussion Paper 16-17 (2016).

Approaches to Address Potential CO2 Emissions Leakage to New Sources under the Clean Power Plan (with Dallas Burtraw, Karen L. Palmer, Anthony Paul, Kristen McCormack, and Hang Yin), RFF Report 2016.

Comparing US and EU Approaches to Regulating Automotive Emissions and Fuel Economy (with Thomas Klier). RFF Policy Brief 16-03; reprinted in *Resources*, vol. 193: 40-5.

Clearing the Air: How Market-Based Policies Help Meet the Tighter US Ozone Limit (with Alan Krupnick and Kristen McCormack). *Resources*.

The Environmental Effects of Clean Energy Innovations Under Rate-Based Regulation (with John Horowitz). RFF Discussion Paper 15-42.

Defining the Unknown: A Look at the Cost of Tighter Ozone Standards (with Alan Krupnick and Kristen McCormack). RFF Issue Brief 15-03.

Lessons of Wind Policies in Texas (with Clayton Munnings). *Texas A&M Journal of Real Property Law*, vol. 1 (2014): 425-446.

The Costs and Consequences of Clean Air Act Regulation of CO₂ from Power Plants (with Dallas Burtraw, Karen Palmer, and Anthony Paul). *Papers and Proceedings of the American Economic Association*, vol. 104, 2014: 557-62.

Preparing for the Midterm Review of the Fuel Economy and Greenhouse Gas Emissions Rate Standards for Light-Duty Vehicles: A Summary of Priority Research Questions (with Alan J. Krupnick and Virginia D. McConnell). RFF Issue Brief 14-04.

How Electric Cars Can Increase Greenhouse Gas Emissions (with Virginia McConnell). *Resources*, v184, 2013.

Do Market Shares or Technology Explain Rising New Vehicle Fuel Economy? (with Shefali Khanna). RFF Discussion Paper 13-29.

Environmental Regulation and Employment: A Reassessment (with Anna Belova, Wayne B. Gray, and Richard D. Morgenstern). CES Working Paper 13-36.

Designing Renewable Electricity Policies to Reduce Emissions (with Harrison Fell and Clayton Munnings). RFF Discussion Paper 12-54.

The Supply Chain and Industrial Organization of Rare Earth Materials: Implications for the U.S. Wind Energy Sector (with Jhih-Shyang Shih, Timothy J. Brennan, Joel Darmstadter, Molly K. Macauley, and Louis Preonas), RFF Report 2012.

Loan Guarantees Reconsidered (with Joel Darmstadter). *Resources for the Future Policy Commentary*, reprinted in *Resources*, v179, 2012: 10-12.

Cutting Carbon Take Two: A Brief Guide to Federal Electricity-Sector Climate Policy without Cap-and-Trade (with Nathan Richardson). *Issue Brief* 11-09, 2011. Published in *Applied Economics Perspectives and Policy*, vol. 35 (2013): 377-97.

Corporate Average Fuel Economy Standards and the Market for New Vehicles (with Thomas Klier). *The Annual Review of Resource Economics*, v3, 2011: 445-62.

Deepwater Drilling: Law, Policy, and Economics of Firm Organization and Safety (with Mark A. Cohen, Madeline Gottlieb, and Nathan Richardson). *Vanderbilt Law*

Review, vol. 64 (2011): 1853-1916.

The Price of Gasoline and the Demand for Fuel Economy: Are There Any Links” (with Thomas Klier). Published in *Issues of the Day: 100 Commentaries on Climate, Energy, the Environment, Transportation and Public Health Policy*. Ian W. H. Parry and Felicia Day (eds.), Resources for the Future Press, Washington, DC, 2010.

Did Medicare Induce Pharmaceutical Innovation? (with Daron Acemoglu, David Cutler and Amy Finkelstein). *Papers and Proceedings of the American Economic Association*, May 2006.

Awards, Research Funding, and Fellowships

2016	Sloan Foundation, National Science Foundation
2015	Smith Richardson Foundation
2014	Lincoln Institute
2013	Swedish Energy Agency, California Air Resources Board
2012	Heising-Simons Foundation
2012	Swedish Energy Agency
2012	EPA/NREL
2011	Department of Energy
2010	Bechtel Foundation
2010	Presidential Oil Spill Commission
2009	EPA
2008	Sloan Air Cleaning Industry Center (startup grant)
2006	Winner, Best Presentation at the Heartland Environmental and Resource Economics Workshop
2000-2004	Jacob K. Javits Graduate Fellowship
2000	Graduated <i>magna cum laude</i> , with distinction in the major

Academic Seminars and Conference Presentations

2018	Transportation Research Board Annual Meeting
2017	University of Maryland, Environmental Protection Agency, Carnegie Mellon, Association of Environmental and Resource Economists Summer Conference, APPAM Fall Conference, Society of Risk Analysis Annual Meeting
2016	Georgia Tech, Department of Transportation
2015	Yale University, California Air Resources Board
2014	Stanford, Society for Cost Benefit Analysis Conference, International Industrial Organization Conference
2013	AERE Summer Conference, International Industrial Organization Conference, Colorado School of Mines, Cornell University, MIT CEEPR Workshop, National Academy of Sciences
2012	AERE Summer Conference, POWER Conference, Santa Barbara AB 32 Workshop, Rutgers, Environmental Defense Fund, Deloitte Alternative Energy Conference

- 2011 New York University Transportation Workshop, RFF First Wednesday, APPAM Fall Research Conference, USAEE Conference, Boise State, Chicago/RFF Energy Conference, Senate Briefing on Clean Energy, Association of Environmental and Resource Economists Summer Conference, International Industrial Organization Conference, European Association of Environmental and Resource Economists, Carnegie Mellon (invited lecture)
- 2010 RFF/IETA Cancun Climate Conference Side Event, RFF First Wednesday, University of Dauphine Energy in the USA Conference

Referee Activities

American Economic Review, American Economic Journal: Economic Policy, BE Journal of Economic Analysis and Policy, Contemporary Economic Policy, Ecological Economics, Econometrica, The Economic Journal, Energy Economics, The Energy Journal, Energy Policy, Energy Economics, Energy Policy, Environmental and Resource Economics, Environmental Science and Technology, Forum for Health Economics and Policy, Journal of Benefit-Cost Analysis, Journal of Environment and Development, Journal of Environmental Management, Journal of Environmental Economics and Management, Journal of Environmental Management, Journal of Health Economics, Journal of Industrial Economics, Journal of Political Economy, Journal of Regional Science, Journal of Transportation Economics and Policy, Regional Science and Urban Economics, Research Policy, Resource and Energy Economics, Review of Economics and Statistics, Review of Environmental Economics and Policy, Transportation Research