

# MARK R. JACOBSEN

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## Academic and Research Appointments

Professor, University of California, San Diego, 2020 – present  
Associate Professor, University of California, San Diego, 2013 – 2020  
Research Associate, National Bureau of Economic Research, 2013 – present  
Visiting Scholar, University of Pennsylvania, Philadelphia, 2016  
Visiting Scholar, University of Michigan, Ann Arbor, 2014  
Visiting Researcher, Energy Institute at Haas, UC Berkeley, 2010  
Faculty Research Fellow, National Bureau of Economic Research, 2009 – 2013  
Assistant Professor, University of California, San Diego, 2007 – 2013  
Research Associate, Joint Global Change Research Institute, College Park, MD, 2000 – 2002

## Education

Ph.D. in Economics, Stanford University, 2007  
B.A. in Economics, Wesleyan University, Middletown, CT, 1999

## Publications

“Regulating Untaxable Externalities: Are Vehicle Air Pollution Standards Effective and Efficient?” (with James Sallee, Joseph Shapiro, and Arthur van Benthem), *The Quarterly Journal of Economics*, forthcoming.

*The Effects of New-Vehicle Price Changes on New- and Used-Vehicle Markets and Scrappage* (with Robert Beach, Chandler Cowell, and Joshua Fletcher), Washington DC: U.S. Environmental Protection Agency, 2021.

“The Use of Regression Statistics to Analyze Imperfect Pricing Policies” (with Christopher Knittel, James Sallee, and Arthur van Benthem), *Journal of Political Economy*, Vol. 128, No. 5, 2020.

“Estimating the Costs and Benefits of Fuel-Economy Standards” (with Antonio Bento, Christopher Knittel, and Arthur van Benthem), in *NBER Book Series: Environmental and Energy Policy and the Economy*, Eds. M. Kotchen, J. H. Stock, and C. Wolfram, Chicago: University of Chicago Press, 2020.

“Cost-Effective Climate Policies,” in *Bending the Curve: Climate Change Solutions*, Ed. V. Ramanathan, Oakland, CA: Regents of the University of California, 2019.

“Flawed Analyses of U.S. Auto Fuel Economy Standards,” (with Antonio Bento, Kenneth Gillingham, Christopher Knittel, Benjamin Leard, Joshua Linn, Virginia McConnell, David Rapson, James Sallee, Arthur van Benthem, and Kate Whitefoot), *Science*, Vol. 362, No. 6419, 2018.

“Environmental Policy in the Presence of an Informal Sector” (with Antonio Bento and Anthony Liu), *Journal of Environmental Economics and Management*, Vol. 90, 2018.

“Public Policy and the Private Provision of Public Goods Under Heterogeneous Preferences” (with Jacob LaRiviere and Michael Price), *Journal of the Association of Environmental and Resource Economists*, Vol. 4, No. 1, 2017.

“Vehicle Scrappage and Gasoline Policy,” (with Arthur van Benthem), *American Economic Review*, Vol. 105, No. 3, 2015.

“Fuel-Efficiency Standards: Are Greener Cars Safer?” *ACCESS Magazine*, Vol. 45, 2014.

“Fuel Economy and Safety: The Influences of Vehicle Class and Driver Behavior,” *American Economic Journal: Applied Economics*, Vol. 5, No. 3, 2013.

“Evaluating U.S. Fuel Economy Standards in a Model with Producer and Household Heterogeneity,” *American Economic Journal: Economic Policy*, Vol. 5, No. 2, 2013.

“Unintended Consequences from Nested State and Federal Regulations: The Case of the Pavley Greenhouse-Gas-per-Mile Limits,” (with Lawrence Goulder and Arthur van Benthem), *Journal of Environmental Economics and Management*, Vol. 63, No. 2, 2012.

“Book Review, The End of Energy: The Unmaking of America’s Environment, Security, and Independence,” *Journal of Economic Literature*, Vol. 49, No. 4, 2011.

“Fuel Economy, Car Class Mix, and Safety,” *American Economic Review - Papers and Proceedings*, Vol. 101, No. 3, 2011.

“Distributional and Efficiency Impacts of Increased U.S. Gasoline Taxes,” (with Antonio Bento, Lawrence Goulder, and Roger von Haefen), *American Economic Review*, Vol. 99, No. 3, 2009.

(reprinted in *Fuel Taxes and the Poor: The Distributional Effects of Gasoline Taxation and Their Implications for Climate Policy*, Ed. Thomas Sterner, Washington DC: RFF Press, 2011.)

“Costs of Alternative Environmental Policy Instruments in the Presence of Industry Compensation Requirements,” (with Lans Bovenberg and Lawrence Goulder), *Journal of Public Economics*, Vol. 92, No. 5, 2008.

“Ricardian Rents, Environmental Policy, and the ‘Double-Dividend’ Hypothesis” (with Antonio Bento), *Journal of Environmental Economics and Management*, Vol. 53, No. 1, 2007.

“Distributional and Efficiency Impacts of Gasoline Taxes: An Econometrically Based Multi-market Study” (with Antonio Bento, Lawrence Goulder, Emeric Henry, and Roger von Haefen), *American Economic Review - Papers and Proceedings*, Vol. 95, No. 2, 2005.

“Meeting Concentration Targets in the Post-Kyoto World — Does Kyoto Further a Least Cost Strategy?” (with Gary Yohe), *Mitigation and Adaptation Strategies for Global Change*, Vol. 4, No. 1, 1999.

“Spanning Not Implausible Futures to Assess Relative Vulnerability to Climate Change and Climate Variability” (with Gary Yohe and Taras Gapotchenko), *Global Environmental Change*, Vol. 9, No. 3, 1999.

### Working Papers and Research in Progress

“Negative Rebound: Fuel Economy Standards and Miles Traveled” (with Yanjun Liao).

“The Efficiency of Dynamic Electricity Pricing Schemes” (with Christopher Knittel, James Sallee, and Arthur van Benthem).

“When the Myopic and Pro-Social Meet: Second-Best Gasoline Policy” (with Bei Luo)

“Are Carbon Taxes More Efficient in Industrializing Countries? Comparing China and India to the United States” (with Richard Carson and Anthony Liu).

“Electricity Regulation in California and Input Market Distortion” (with Azeem Shaikh), Stanford Institute for Economic Policy Research Discussion Paper, No. 03-016.

### Fellowships and Awards

Graduate Teaching Award, University of California, San Diego, 2013

Hellman Fellowship, University of California, San Diego, 2011

B.F. Haley and E.S. Shaw Dissertation Fellowship, SIEPR (Stanford University), 2006

Goldman Graduate Fellowship, (Stanford University), 2001

Stanford Department of Economics Graduate Fellowship, 2000

B.A. with High Honors (Wesleyan University), 1999

### Professional Associations and Service

Editorial Council:

*Journal of the Association of Environmental and Resource Economists* (current)

*Journal of Environmental Economics and Management* (2012 – 2013)

Program Committee: AERE Annual Conference (2011 – present)

Reviewer: *American Economic Review*, *Journal of Political Economy*, *Quarterly Journal of Economics*, *Econometrica*, *Review of Economic Studies*, *Science*, *PNAS*, *American Economic Journal: Applied Economics*, *American Economic Journal: Economic Policy*, *American Economic Review: Insights*, *Journal of Public Economics*, *Journal of the Association of Environmental and Resource Economists*, *Journal of Environmental Economics and Management*, *RAND Journal of Economics*, *Review of Economics and Statistics*, *Transportation Research*, *Journal of Regulatory Economics*, *Economic Inquiry*, *Canadian Journal of Economics*, *Environmental and Resource Economics*, *Journal of Industrial Economics*, *Resource and Energy Economics*, *Environmental Economics and Policy Studies*, *Journal of Policy Analysis and Management*, *Review of Environmental Economics and Policy*, *Berkeley Electronic Journal*, *Journal of Risk and Uncertainty*, *American Journal of Agricultural Economics*, *Management Science*, *Energy Economics*, *Journal of Applied Econometrics*, *Energy Journal*, *Quantitative Economics*, *Journal of Economic Behavior & Organization*, *European Economic Review*, *The National Science Foundation*

## Associations:

American Economic Association, Association of Environmental and Resource Economists,  
UCSD Center for Environmental Economics (Director)

**Teaching and Advising**

## Undergraduate Courses:

Economics of the Environment (UCSD 2010-2022)  
Honors Microeconomics (UCSD 2013-2015)  
Intermediate Microeconomics (UCSD 2007-2009)

## Ph.D. Courses:

Economics of Natural Resources (UCSD 2007-2022)  
Original Research Paper/Pre-Candidacy Presentation (UCSD 2012, 2013, 2019)

UC-wide Ph.D. course in energy economics (UC Berkeley 2011, 2013)

## Masters Programs:

Co-Chair: Master of Advanced Studies Program in Marine Biodiversity and Conservation  
(UCSD, 2019-2022)  
Introduction to Economics and Topics in Environmental Economics (UCSD 2010-2022)

Masters capstone advising (UCSD 2011-2023)

## Ph.D. Advising:

Jackson Somers (chair, PhD 2022, University of Connecticut), Zhiyun Jiang (PhD 2022, JP Morgan), Wesley Howden (chair, PhD 2021, University of Arizona), Yanjun Liao (chair, PhD 2019, RFF), Xueying Lu (chair, PhD 2019, Nankai University), Fanglin Sun (PhD 2019, Amazon), Yann Panassié (PhD 2018), Jeffrey Shrader (PhD 2017, Columbia University), Isla Globus-Harris (PhD 2017, Colgate University), Matthew Gibson (co-chair, PhD 2015, Williams College), Stephanie Fried (co-chair, PhD 2015, Arizona State University), William Leung (chair, PhD 2015, UC Davis and CARB), Tamara Sheldon (PhD 2015, University of South Carolina), Christopher Steiner (PhD 2015, Penn State University), Oleksiy Mnyshenko (PhD 2015, Amazon), Michael Madowitz (CPH 2010, CAP), Michael Futch (PhD 2013, CRA), Anthony Liu (co-chair, PhD 2012, Resources for the Future), Kevin Novan (PhD 2012, UC Davis), Benjamin Gilbert (PhD 2011, University of Wyoming)

**Invited Seminars and Conferences**

2022: Energy Institute at Haas, Association of Environmental and Resource Economists Annual Conference, Society of Automotive Engineers, U.S. Environmental Protection Agency, California Air Resources Board

2021: University of Chicago, Georgetown University, National Bureau of Economic Research Summer Institute, University of Bern, EPA-Resources for the Future Energy Policy Conference, NBER Economics of Transportation in the 21<sup>st</sup> Century, Energy Institute at Haas, Cornell University

2020: Meetings of the American Economic Association, National Bureau of Economic Research Winter Meetings

2019: Association of Environmental and Resource Economists Annual Conference, Energy Institute at Haas Summer Workshop, Meetings of the American Economic Association, California EPA, Wesleyan University, Pennsylvania State University

2018: University of Mannheim, Leibniz Centre for European Economic Research (ZEW), Tsinghua University, University of California Davis, King Abdullah Petroleum Studies Research Center, Meetings of the American Economic Association

2017: University of Colorado, Boulder, Simon Frasier University, University of Helsinki, Toulouse School of Economics, University of Oxford, Energy Institute at Haas Summer Workshop, University of British Columbia, University of Arizona, Duke University, Meetings of the American Economic Association

2016: Energy Institute at Haas Summer Workshop, National Bureau of Economic Research Summer Institute, University of Chicago, Association of Environmental and Resource Economists Annual Conference, International Seabed Authority Fiscal Regime Workshop, Michigan State University, University of Pennsylvania, Payne Institute for Earth Resources Annual Conference, Meetings of the American Economic Association

2015: University of Pittsburgh, Meetings of the American Economic Association, University of California at Santa Cruz, NBER Environmental and Energy Economics Workshop, NYU Abu Dhabi, University of Copenhagen

2014: University of Pennsylvania (Wharton School), University of California at Berkeley, University of Michigan, University of California Los Angeles, Meetings of the American Economic Association, Yale University, MIT, Energy Institute at Haas Summer Workshop, World Congress of Environmental and Resource Economists, 3<sup>rd</sup> Economics of Low Carbon Markets Workshop, Transportation, Economics, Energy, and the Environment Conference, University of São Paulo, Arizona State University, Stanford University

2013: Stanford University Institute for Economic Policy Research, Meetings of the American Economic Association, US Environmental Protection Agency, Resources for the Future, NBER Environmental and Energy Economics Workshop, University of California Riverside, Energy Institute at Haas Summer Workshop, Columbia University

2012: Cornell University, University of California at Santa Barbara, Meetings of the American Economic Association, Association of Environmental and Resource Economics Annual Conference, Renmin University, Beijing, NBER Summer Institute (Environmental Economics), European Association of Environmental and Resource Economics Annual Conference, UC Energy Institute Summer Conference

2011: Northwestern University (Kellogg), New York University, UCLA Lake Arrowhead Symposium, Texas A&M University, NBER Summer Institute (Environmental Economics), UC Energy Institute Summer Conference, All-UC Economics of Energy and Environment Workshop, Association of Environmental and Resource Economics Annual Conference, ISSF International Workshop on Marine Resource Allocation, Meetings of the American Economic Association

2010: Columbia University, University of Maryland, Harvard University (Kennedy School), Arizona State University, University of Calgary, Meetings of the National Tax Association, California Workshop on Environmental and Resource Economics, NBER Summer Institute (Industrial Organization), UC Berkeley Energy Institute Annual Conference, Claremont College, UC Berkeley

(ARE), Meetings of the American Economic Association, World Congress of Environmental and Resource Economists

2009: Washington University in St. Louis, University of British Columbia, Meetings of the National Tax Association, NBER Summer Institute (Environmental Economics), Association of Environmental and Resource Economics Summer Workshop, UC Riverside, UC Berkeley Annual Electricity Conference, Meetings of the American Economic Association

2008: UC Los Angeles, Sungkyunkwan University, Seoul, NBER Summer Institute (Environmental Economics), Meetings of the European Association of Environmental and Resource Economists, UC Davis, UC Santa Barbara (Bren School), UC Berkeley (UCEI)