

ERICH J. MUEHLEGGGER

CONTACT INFORMATION

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ACADEMIC APPOINTMENTS

- 2014-present DEPARTMENT OF ECONOMICS, UC – DAVIS
Professor (2022-present)
Associate Professor (2016-2022), Assistant Professor (2014-2016)
Graduate Program Chair (2016-2020)
- Institute for Transportation Studies, Faculty Affiliate (2015-present)
Transportation, Technology and Policy Graduate Group, Affiliate (2015-present)
Davis Energy Economics Program, Faculty Affiliate (2014-present)
- 2005-2014 HARVARD KENNEDY SCHOOL, HARVARD UNIVERSITY.
Associate Professor, untenured (2010-2014)
Assistant Professor (2005-2010)
- Harvard Environmental Economics Program, Faculty Fellow (2005-2014)
Regulatory Policy Program, Faculty Chair (2006-2009)
Harvard University Center for the Environment, Faculty Associate (2007-2014)
Harvard Lab for Economic Applications and Policy, member (2009-2014)
- Spring 2022 UNIVERSIDAD CARLOS III DE MADRID
Visiting Associate Professor
- Spring 2010 COLUMBIA UNIVERSITY
Visiting Scholar

PROFESSIONAL APPOINTMENTS

- 2010-present NATIONAL BUREAU OF ECONOMIC RESEARCH, EEE
Research Associate (2016 – present)
Faculty Research Fellow (2010 – 2016)
- 2015-present JOURNAL OF ENVIRONMENTAL ECONOMICS AND MANAGEMENT,
Member of the Editorial Board
- 2018-2022 NATIONAL TAX JOURNAL,

Member of the Editorial Advisory Board

EDUCATION

Primary Fields: Energy, Environment, Public Finance, Industrial Organization

2000-2005 MIT, CAMBRIDGE, MA. Ph.D., Economics.

1993-1997 WILLIAMS COLLEGE, WILLIAMSTOWN, MA. B.A., Mathematics and Economics

RESEARCH PUBLICATIONS

1. "Subsidizing Low and Middle-Income Adoption of Electric Vehicles: Quasi-Experimental Evidence from California" (with David Rapson) *conditionally accepted, Journal of Public Economics*
2. "The Economics of Electric Vehicles" (with David Rapson) *accepted, Review of Environmental Economics and Policy*
3. "Correcting Estimates of Electric Vehicle Emissions Abatement: Implications for Climate Policy" (with David Rapson) *accepted Journal of the Association of Environmental and Resource Economists*
4. "Pass-Through of Own and Rival Cost Shocks: Evidence from the U.S. Fracking Boom" (with Richard Sweeney), forthcoming, *Review of Economics and Statistics*
5. Archsmith, James, Erich Muehlegger, and David S. Rapson. "Future Paths of Electric Vehicle Adoption in the United States: Predictable Determinants, Obstacles, and Opportunities." *Environmental and Energy Policy and the Economy* 3.1 (2022): 71-110.
6. "Air Pollution and Criminal Activity: Microgeographic Evidence from Chicago" (with Evan Herrstadt, Anthony Heyes and Soodeh Saberian), *American Economic Journal: Applied Economics*, 13 (4): 70-100, October 2021.
7. "Who Bears the Economic Burdens of Environmental Regulations?" (with Don Fullerton) *Review of Environmental Economics and Policy*, 13:1, p.62-82, Winter 2019.
8. "Tax Compliance and Fiscal Externalities: Evidence from U.S. Diesel Taxation." (with Justin Marion). *Journal of Public Economics*, 160, p. 1-13, April 2018.
9. "Does Tax-Collection Invariance Hold? Evasion and the Pass-Through of State Diesel Taxes" (with Justin Marion, Joel Slemrod and Wojciech Kopczuk). *American Economic Journal: Economic Policy*, 8: 2, p. 251-286, May 2016.
10. "Consumer Learning and Hybrid Vehicle Adoption" (with Garth Heutel)

- Environmental and Resource Economics*, 62:1, p.125-161, September 2015.
11. "Tracking Employment Shocks using Mobile Phone Data" (with Yu-ru Lin, Jameson Toole, Daniel Shoag, Marta Gonzalez and David Lazer), *Journal of Royal Society Interface*, 12:107, June 2015.
 12. "Gasoline Taxes and Consumer Behavior" (with Shanjun Li and Joshua Linn) *American Economic Journal: Economic Policy*, 6: 4, p. 302-342, November 2014
 13. "Weather, Salience of Climate Change and Congressional Voting" (with Evan Herrnstadt), *Journal of Environmental Economics and Management*, 68: 3, p.435-448, November 2014.
 14. "Consumer Response to Cigarette Excise Tax Changes" (with Lesley Chiou), *National Tax Journal*, 67: 3, p. 621-650, September 2014.
 15. "Heuristic Strategies, Firm Behavior and Industry Information" (with Cynthia Lin) *Journal of Economic Behavior and Organization*, 86: 1, p. 10-23, February 2013.
 16. "Tax Incidence and Supply Conditions" (with Justin Marion), *Journal of Public Economics*, 95, p. 1202-1212. October 2011.
 17. "Giving Green to Get Green: Incentives and Consumer Adoption of Hybrid Vehicle Technology." (with Kelly Gallagher), *Journal of Environmental Economics and Management*, 61, p. 1-15. January 2011.
 18. "Do Americans Consume Too Little Natural Gas? An Empirical Test of Marginal Cost Pricing" (with Lucas Davis), *Rand Journal of Economics*, 41, p. 791-810. Winter 2010.
 19. "Edgeworth Cycles Revisited" (with Joseph Doyle and Krislert Samphantharak). *Energy Economics*, 32, p. 651-660. May 2010.
 20. "Crossing the Line: The Effect of Cross-Border Cigarette Sales on State Excise Tax Revenues" (with Lesley Chiou), *BE Journal – Economic Analysis and Policy (Contributions)*, 8:1. December 2008.
 21. "Measuring Illegal Activity and the Effects of Regulatory Innovation: Tax Evasion and the Dyeing of Untaxed Diesel" (with Justin Marion). *Journal of Political Economy*, 116:4, p. 633-666, August 2008.

PUBLICATIONS IN MATHEMATICS

22. "Infinite Ergodic Index Z^d Actions in Infinite Measure" (with B. Narasimhan, A. Raich, C. Silva, M. Touloumtzis, and W. Zhao). *Colloquium Mathematicum*, vol. 82, No. 2 (1999), 167-190.

23. “Lightly Mixing on Dense Algebras” with (A. Raich, C. Silva and W. Zhao).
Real Analysis Exchange, Vol. 23, No. 1, (1998), 259-266.

BOOK CHAPTERS AND OTHER PUBLICATIONS

24. “Land Use Regulation and Commuting Patterns” (with Daniel Shoag) *Procedia Engineering* 107, p. 488-493, 2015.
25. “Cell Phones and Motor Vehicle Fatalities” (with Daniel Shoag),
Procedia Engineering 78, p. 173-177, September 2014.
26. Commentary on Dealing with Expropriations: General Guidelines for Oil Contracts, “The Natural Resources Trap: Private Investment without Public Commitment” MIT Press, 2011.

RECENT WORKING PAPERS

- “Air Pollution as a Cause of Violent Crime” (with Evan Herrstadt, Anthony Heyes and Soodeh Saberian)
- “The End of Neutrality? LCFS, Technology Neutrality, and Stimulating the EV Market” (with Jim Bushnell, David Rapson and Julie Witcover) *revisions requested, Economics of Energy & Environmental Policy*
- “Energy Prices and Electric Vehicle Adoption (with James Bushnell and David Rapson)

CONSULTING

- Consultant, South Coast Air Quality Management District
- Consultant, Taylor Policy Group
- Consultant, Copyright Clearance Center

FELLOWSHIPS AND GRANTS

- 2022 Principal Investigator, *Institute for Transportation Studies, NCST 2022 - 2023 Research Grant* “Do Fuel Taxes Face Ideological or Economic Opposition? Evidence from Voting on Proposition 6 and Lessons for Policy-Making” \$83,679
- 2021-2024 Co-principal Investigator, *National Science Foundation*, “Electric Vehicles: Economics of the Extensive and Intensive Margins (Award #2049929)” (with Fiona Burlig, David Rapson and James Bushnell) \$600,000
- 2019 Principal Investigator, *Institute for Transportation Studies, SBI 2019-2020 Research Grant* “Do electricity prices affect EV adoption?” (with David Rapson and James Bushnell) \$61,159

- 2018 Principal Investigator, *Institute for Transportation Studies, SBI 2018-19 Research Grant* “How much pollution abatement do EV subsidies buy us?” (with David Rapson) \$75,710
- 2017 Principal Investigator, *Institute for Transportation Studies, SBI 2017-18 Research Grant* “Estimating the Effects of the Enhanced Fleet Modernization Project - Plus Up” and the Elasticity of Demand for Electric Vehicles” (with David Rapson) \$79,986
- 2017 Principal Investigator, *National Center for Sustainable Transportation and California Department of Transportation* “Understanding the distributional impacts of vehicle policy: Who buys new and used alternative vehicles?” (with David Rapson) \$99,101
- 2017 Principal Investigator, *National Center for Sustainable Transportation and US Department of Transportation* “Seed Grant: EV Incentive Pass-through and Dealer Margins” (with David Rapson) \$31,400
- 2017 Principal Investigator, *Institute for Transportation Studies – Public Transportation Account Project* “Environmental Justice and Barriers to Low-Income EV Adoption” (with David Rapson) \$39,824
- 2015 Principal Investigator, *New England University Transportation Center Research Grant*, “The Local Effects of the American Recovery and Reinvestment Act on Economic Activity and Traffic Safety” (with Daniel Shoag) \$85,565
- 2014 Principal Investigator, *New England University Transportation Center Research Grant*, “Land-Use Regulation and Commuting Patterns” (with Daniel Shoag) \$84,791
- 2013 Taubman Center for State and Local Government Research Grant (\$15,000)
- 2013 KSG Dean’s Research Fund (\$5,000)
- 2012 Taubman Center for State and Local Government Research Grant (\$15,000)
- 2012 Principal Investigator, *New England University Transportation Center Research Grant*, “Cell Phones and Vehicle Safety”, (with Daniel Shoag) \$97,303
- 2011 Taubman Center for State and Local Government Research Grant (\$15,000)
- 2011 Principal Investigator, *Energy Technology and Innovation Project*, “Cell Phones and Vehicle Safety.” \$32,822
- 2010 Principal Investigator, *Energy Technology and Innovation Project*, “Gasoline Taxes and Consumer Behavior.” \$59,243

- 2007 Principal Investigator, *Mossavar-Rahmani Center for Business and Government and Energy Technology Innovation Project*, “Incentives for Hybrid Vehicles.” \$28,635
- 2006 KSG Dean’s Research Fund \$5,000
- 2002 Fellowship, MIT Center for Energy and Environmental Policy Research.
- 2000-2003 National Science Foundation Graduate Research Fellowship

TEACHING AWARDS AND EXPERIENCE

- 2017 Tom Mayer Distinguished Teaching Award, UC Davis
- 2013 Dean’s Award for Teaching, Harvard Kennedy School
- 2012 Dean’s Award for Teaching, Harvard Kennedy School
- 2008 Dean’s Award for Teaching, Harvard Kennedy School
- 2007 Dean’s Award for Teaching, Harvard Kennedy School
- 2006 Dean’s Award for Teaching, Harvard Kennedy School

UC-Davis:

- ECN221C: Graduate Industrial Organization (2014-present)
- ECN121B: Strategy, Competition and Regulation (2014-present)
- ECN145: Transportation Economics (2015 - present)

Harvard Kennedy School:

Executive Education: Modules on Empirical Methods and Environmental Policy

- BGP200: Strategy, Competition and Regulation (2008-2013)
- API105: Markets and Market Failure with Cases (2008)
- API201: Quantitative Analysis and Empirical Methods (2005 - 2008, 2011-2013)

OTHER EXPERIENCE

- 2003-2005 Teaching Assistant, MIT Department of Economics
- 2001-2002 Research Assistant, Professor Paul Joskow.
- 1997-2011 CompassLexecon, Cambridge, MA
Analyst (1997-1998), Senior Analyst (1998-2000), Consultant (2000-2005),
Academic Affiliate (2005-2011)

ACADEMIC PRESENTATIONS (SINCE 2005)

- 2022 Toulouse, ETH Zurich, Universidad Carlos III de Madrid, University of Alaska – Anchorage, University of Richmond
- 2021 Arizona State University, Michigan State, Boston University, NBER EPEE, AERE Annual Conference, Virtual International Environmental and Energy Economics Seminar
- 2019 USC, UCSB, TE3 conference, Empirical Methods in Energy Economics summer meeting
- 2018 ETH Zurich, Connecticut, Occasional Environmental Economics Conference (UCSB), Environmental Taxation Workshop (Maryland)
- 2017 UCLA, LSU, UC Berkeley Energy Camp, NBER Hydrocarbon Infrastructure meeting, Empirical Methods in Energy Economics summer meeting, AERE annual conference
- 2016 AERE annual conference, UC Berkeley Energy Camp, Arizona
- 2015 UC Irvine, UC Davis, Michigan
- 2014 UC Davis, UC Berkeley
- 2013 University of Colorado, Harvard, University of Illinois – Urbana Champaign, ETH Zurich, University of Lugano.
- 2012 Yale, UC Santa Barbara, ASSA meetings, Cornell.
- 2011 ASSA meetings, Stanford, Northwestern, UC Davis, Maryland AREC, UC Berkeley Energy Camp
- 2010 Columbia, Duke, International Industrial Organization Conference.
- 2009 Yale, Columbia Business School, Harvard, Columbia.
- 2008 American Economics Association Meetings, Boston University, International Industrial Organization Conference, Harvard (2), MIT, Brandeis, NBER Summer Institute – Economics of Taxation, NBER Summer Institute – Environmental and Energy Economics.
- 2007 Federal Reserve, Tufts, International Industrial Organization Conference, UC Berkeley, Yale.
- 2006 Harvard, International Industrial Organization Conference, Yale SOM, Federal Trade Commission, UC Berkeley.

2005 Harvard, Cornell, USC, UC Irvine, Northeastern, Department of Justice, Federal Trade Commission.

OTHER INVITED PRESENTATIONS

Academic Panel Lead – Climate Policy Lab Roundtable on Green Tax Credits, June 2021.

Commentor – GAO Methodology: Effects of Mergers and Market Concentration on Wholesale Gasoline Prices. 2008, 2009

Lead Speaker, U.S. / Taiwan Dialogue on Hybrid Vehicles. Sponsored by the U.S. State Department. 2009.

PROFESSIONAL SERVICE

Referee:

American Economic Review, Quarterly Journal of Economics, Journal of Political Economy, Review of Economic Studies, American Economic Journal: Applied Economics, American Economic Journal: Economic Policy, American Economic Journal: Microeconomics, American Economic Review Insights, BE Journals in Economic Analysis and Policy, Contemporary Economics and Policy, Energy Economics, Energy Journal, Energy Policy, Environment and Resource Economics, Environmental Research Letters, Games and Economic Behavior, Health Economics, International Journal of Industrial Organization, International Tax and Public Finance, Journal of Applied Econometrics, Journal of Environmental Economics and Management, Journal of European Economics Association, Journal of Industrial Economics, Journal of Industrial Organization, Journal of Policy Analysis and Management, Journal of Public Economics, Journal of the Association of Environmental and Resource Economics, Journal of Urban Economics, National Tax Journal, Proceedings of the National Academy of Science, Public Budgeting and Finance, Public Finance Review, RAND Journal of Economics, Review of Economics and Statistics, Review of Industrial Organization, Scandinavian Journal of Economics, Scandinavian Journal of Economics, Science Advances, Southern Economic Journal

American Economic Review Excellence in Refereeing Award, 2010.

Ad-hoc reviewer:

*National Science Foundation,
Canadian Social Science and Humanities Research Council,
Alfred P. Sloan Foundation,
NBER pre-doctoral fellowship committee
Deutsche Forschungsgemeinschaft (German Research Foundation)*

Conference committee member:

*Association of Environmental and Resource Economists Annual Meeting (2016 – present)
North American Summer Meeting of the Econometric Society (2018)
National Tax Association Annual Meeting (2018, 2019)*

Empirical Methods in Energy Economics Summer Meeting (2018, 2019)

Conference co-organizer:

Making Social Science Transparent conference, UC Davis, April 2016

UNIVERSITY SERVICE

UC Davis

Department Service:

Graduate Study Committee (2016 – 2020, chair) (2021, member)

Mental Health Committee (2020 – present)

Environmental and Energy Economics Seminar co-organizer (2018)

Industrial Organization Seminar Organizer (2015, 2016)

Teaching Evaluation Committee (2014, 2015)

Levine Family Seminar Series (2014)

Division Service:

Graduate Student Support Committee (2018-2020, member) (2020-2021, chair)

Institute for Social Sciences Executive Committee (2015, 2016)

University Service:

Department Representative to the Academic Senate (2017 - 2021)

Other Service:

Graduate Affairs Committee for Energy Graduate Group (2016 – 2020)

Academic Affairs Committee Member, Energy Graduate Group (2017 - 2019)

Harvard Kennedy School

PhD Admissions Committee (2009 - 2013)

Joseph Crump Fellowship Committee (2008 - 2012)

HKS Faculty Research Seminar Coordinator (2011, 2012)

Harvard University Center for the Environment Fellowship Committee (2008)

Junior Analytics Search Committee (2006 - 2008)

MPP Admissions Committee (2005).

Student Internship Fund Committee (2005, 2007)

ADVISING

Oral exam committee member:

2014-2015: Khaled Kheiravar, Jiwon Lee, Ariel Pihl, Irwin Rojas (ARE)

2015-2016: James Archsmith (chair), Yuan Chen (ARE)

2016-2017: Guozhen Li (TTP), Hanjiro Ambrose (TTP), Natalie Popovich (ARE),
Tongxin Xu (TTP)

2017-2018: Kelsey Fortune, Jack Gregory (ARE)

2018-2019: Ethan Krohn, Nick Bowden (EGG), Armando Rangel (ARE), Xiaotong Su

2019-2020: Megan Song (ARE), Yijing Wang (ARE)

2020-2021: Shotaro Nakamura, Qian Wang (ARE), Sarah Smith (ARE), Sonia Wang (ARE)
2021-2022: Jiyeon Cheon (ARE), James Keeler (ARE), Jean Ji (EGG), Pedro Orozco (ARE)

PhD Dissertations: - Kate Emans (2008, Amherst College)
Jonathan Borck (2008, Analysis Group)
Hunt Allcott (2009, NYU)
David Molin (2009, CompassLexecon)
Matthew Ranson (2012, Abt Associates)
Richard Sweeney (2015, Boston College)
Evan Herrnstadt (2015, HUCE post-doc)
Samuel Stolper (2016, Michigan SNRE)
James Archsmith (2017, Maryland AREC)
Natalie Popovich (2019 ARE, Berkeley National Labs)
Khaled Kheiravar (2019, California Air Resources Board)
Tongxin Xu (TTP, 2019, Xmotors)
Ethan Krohn (2020, U.S. Census Bureau)
Nick Bowden (EGG, 2020, Ameren Corporation)
Minsu Kim (2022,
Jack Gregory (ARE, 2021)
Kelsey Fortune
Xiaotong Su
Armando Rangel (ARE)
Reid Taylor
Kepler Illich
Jiyeon Cheon (ARE)
Qian Wang (ARE)
Pedro Orozco (ARE)

Master's Theses - Alemayehu Kuma Awas (2006, MPA-ID)
Jonathan Phillips (2007, MPP)
Issac Wohl (2007, MPP)
Erik Wurster (2007, MPP)
David Grasso (2009, MPP)
Bruce Haupt (2009, MPP)
Claudia Sanchez (2009, MPP)
Sierra Peterson (2009, MPP)
Daniel Vetter (2011, MBA/MPP)

Undergrad Theses - Michael Libert (2009, Economics)
Lucas Epstein (2021, Economics)

REFERENCES

Robert Stavins
Harvard Kennedy School
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Severin Borenstein
Haas School of Business, UC – Berkeley
borenste@haas.berkeley.edu
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Michael Greenstone
Department of Economics,
University of Chicago
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Lawrence Goulder
Department of Economics,
Stanford University
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650-723-3706