
Office of the Chief Economist
Building 112, Office 4308
Seattle, WA 98052
+1.425.703.3085(o) +1.858.531.5170 (c)
jlariv@microsoft.com

Jacob Sean LaRiviere
Senior Researcher, Microsoft

EDUCATION:

Ph.D., University of California, San Diego, Economics, 2010
M.A., University of California, San Diego, Economics 2006
B.A., University of California, Berkeley, Economics, 2003

RESEARCH FIELDS:

Primary Fields: Industrial Organization, Environmental & Public Economics, Behavioral Economics
Secondary Fields: Information and Uncertainty, Applied Microeconomics, Applied Theory

PROFESSIONAL EXPERIENCE:

2016-current Affiliate Faculty, University of Washington, Department of Economics & Evans School of Public Policy
2015-current Senior Researcher, Office of the Chief Economist, Microsoft
2015-current Adjunct Assistant Professor, University of Tennessee, Department of Economics
Fall 2013 Visiting Assistant Professor, University of Washington, Department of Economics
2011-current Research Fellow for Energy and Environment, Howard Baker Jr. Center for Public Policy
2010-2015 Assistant Professor, University of Tennessee, Department of Economics

PUBLICATIONS:

- [18] Holladay, S., LaRiviere J., Novgorodsky, D. and Price, M. (2019) Prices vs. Nudges: A Large Field Experiment on Energy Efficiency Fixed Cost Investments, *Journal of Public Economics, forthcoming*.
- [17] Johnson, R., LaRiviere, J. and Wolff, H. (2018) Fracking, Coal and Air Quality, *Journal of the Association of Environmental and Resource Economists, forthcoming*.
- [16] LaRiviere, J., McMahon, M., and Roush, J. (2018) Second Best Prioritization of Environmental Cleanups, *Environmental and Resource Economics, forthcoming*.
- [15] Holladay, S. and LaRiviere, J. (2018) How Does Welfare from Load Shifting Electricity Policy Vary with Market Prices? Evidence from Bulk Storage and Electricity Generation, *Energy Journal*, 39(6).
- [14] Simpson, K., Czajkowski, M., Hanley, N., and LaRiviere, J. (2018) What is the Causal Effect of Knowledge on Preferences? *Resource and Energy Economics*, 54(1):69-89.

- [13] Carson, R. and LaRiviere, J. (2018) Structural Uncertainty and Pollution Control: Optimal Stringency with Unknown Pollution Sources, *Environmental and Resource Economics*, 71(2): 337-355.
- [12] LaRiviere, J., McMahon, M., and Neilson, W. (2018) Agency Problems and Dividend Policies: Experimental Evidence, *Management Science*, 64(7): 3108-3128.
- [11] LaRiviere, J., Kling, D., Sanchirico, J., Sims, C., and Springborn, M. (2018) The Treatment of Uncertainty and Learning in the Economics of Natural Resource and Environmental Management, *Review of Environmental Economics and Policy*, 12(1): 92-112.
- [10] Chu, Y., Holladay, S., and LaRiviere, J. (2017) Opportunity Cost Pass-through from Fossil Fuel Market Prices to Procurement Costs of the U.S. Power Producers, *Journal of Industrial Economics*, 65(4): 842-871.
- [9] Holladay, S. and LaRiviere, J. (2017) The Impact of Cheap Natural Gas on Marginal Emissions from Electricity Generation and Implications for Energy Policy, *Journal of Environmental Economics and Management*, 85: 205-227.
- [8] Jacobsen, M., LaRiviere, J., and Price, M. (2017) Public Policy and the Private Provision of Public Goods Under Heterogeneous Preferences, *Journal of the Association of Environmental and Resource Economists*, 4(1): 243-280.
- [7] Boettiger, C., Bode, M., Sanchirico, J., LaRiviere, J., Hastings, A. and Armsworth, P. (2016) Optimal Stochastic Resource Management with Costly Policy Adjustment. *Ecological Applications*, 26(3): 808-817.
- [6] Czajkowski, M., Hanley, N., and LaRiviere, J. (2016). Controlling for the Effects of Information in a Public Goods Discrete Choice Model. *Environmental and Resource Economics*. 63(3): 523-544.
- [5] LaRiviere, J. and Wolff, H. (2015). The Power of the Little Blue Pill: Innovations and Implications of Life Style Drugs in an Aging Population. *Economic Inquiry*. 53(1): 540-556.
- [4] Czajkowski, M., Hanley, N., and LaRiviere, J. (2015). The Effects of Experience on Preferences: Theory and Empirics for Environmental Public Goods. *American Journal of Agricultural Economics*, 97(1): 333-351.
- [3] LaRiviere, J., Czajkowski, M., Hanley, N., Aanesen, M., Falk-Petersen, J. and Tinch, D. (2014). The Value of Familiarity: Effects Knowledge and Objective Signals on Willingness to Pay for a Public Good. *Journal of Environmental Economics and Management*, 68(2): 376-389.
- [2] Cozad, M. and LaRiviere, J. (2013). Fuel Price Changes and the Timing of Household Driving Decisions. *Journal of Environmental Economics and Management*, 65(2): 194-207.
- [1] Fissel, B., Gilbert, B., and LaRiviere, J. (2013). Technology Adoption and Diffusion with Uncertainty in a Commons. *Economics Letters*, 120(2): 297-301.

WORKING PAPERS:

New Markets and New Market Frictions: Evidence from Ethanol and Retail Gasoline Prices

Joint with Luiz Lima and Shukhrat Musinov

(Revisions Requested)

Clustering for Control: Estimating Impacts of Water Infrastructure Failure on Traffic

Joint with Casey Wichman and Brandon Cunningham, RFF Discussion Paper 16-33 (under review)

Transmission Constraints, Intermittent Renewables and Welfare

Joint with Xueying Lu (under review)

Is Time or Comfort Preferred for Taking Shared Transportation? Evidence from a Field Experiment

Joint with Paul Chang (under review)

Developing Open Source Success

Joint with Peter Crosta and Steven Soloway (under review)

Demand Estimation with Missing Data: An Application to Cloud Computing

Joint with Shuang Wang and Aadharsh Kannan (under review)

RESEARCH IN PROGRESS:

What's More Important in Resource Management: Where You Are or Where You're Going?

Joint with Iadine Chades, Carl Boettiger, and Alan Hastings

Additionality and Second-Best Policy: Evidence from in Home Energy Audits

Joint with Ben Gilbert and Kevin Novan

Benefits to Heterogeneous Policies in Packing Problems: An Application to Cloud Computing

Joint with Ludwig Dierks, Aadharsh Kannan, and Thomas Moscibroda

OTHER PUBLICATIONS:

Collins, M., LaRiviere, J., Mandal, D., Wise, M., and Taddy, M (2017), Dangers in Estimating Causal Impacts: Application to Bots. *Microsoft Journal of Applied Research*, 7: 45-60.

[How Better Accounting Can More Cheaply Reduce Carbon Emissions](#), *Howard Baker Jr. Center Policy Brief*, August 2016. Jacob LaRiviere, Gavin McCormick and Sho Kawano

[Where Predictive Analytics is Having the Biggest Impact](#). *Harvard Business Review* online, May 2016, Jacob LaRiviere, Preston McAfee, Justin Rao, Vijay K. Narayanan, and Walter Sun

GRANTS & AWARDS:

2015-2016 Department of Homeland Security, *The Economic Value of Water Infrastructure Resilience*, Principal Investigator (\$235,020)

2012 Baker Center Research Grants (\$20,000 and \$11,000)
2011 University of Tennessee SARIF Grant (\$11,000)
2010 Best Undergraduate Course Teaching, UCSD

PROFESSIONAL PRESENTATIONS:

2019 NBER Economics of Digitization Workshop (scheduled)
2018 World Congress for Environmental and Resource Economists, ACM Sigmatics, National Association of Business Economists
2016 5th Annual Conference for Environmental and Resource Economists.
2015 4th Annual Conference for Environmental and Resource Economists.
2014 World Congress for Environmental and Resource Economists, NBER EEE Summer Institute.
2013 AEA Meetings, San Diego, CA, NBER EEE Summer Institute, 3rd Annual Conference for Environmental and Resource Economists, Alberta, Canada
2012 2nd Annual Conference for Environmental and Resource Economists, Asheville, NC.
2011 9th Annual Conference for Industrial Organization Society, Boston, MA. 1st Annual Conference for Environmental and Resource Economists, Seattle, WA. NAAFE Conference, Honolulu, HI. WEAL Conference, San Diego, CA.
2010 World Congress for Environmental and Resource Economists, Montreal, Canada. International Institute for Fisheries Economists and Trade, Montpellier, France.
2008 European Association of Environmental and Resource Economists 16th Annual Conference, Gothenburg, Sweden.

SEMINAR PRESENTATIONS:

2019 TWEEDS (scheduled)
2018 Colorado Environmental & Resource Economics Workshop, Heartland Environmental & Resource Economics Workshop at UIUC, FAO, World Bank, Federal Reserve Board.
2017 Penn State, Yale, Vanderbilt.
2016 Network Economics and Game Theory Symposium, UCLA.
2015 Oregon State University, University of Wyoming, Resources for the Future, University of California at Davis.
2014 Colorado Environmental and Resource Economics Workshop.
2013 Monash University, UC San Diego, UNC-Greensboro, University of Washington.
2012 TREE Seminar (NC State, RTI and Duke), Universidad de Alicante, Energy Institute at Haas.
2011 University of Minnesota, Colorado Environmental and Resource Economics Workshop.
2010 12th Occasional California Workshop on Environmental and Resources Economics, Universitat Autònoma de Barcelona, Tufts University, Portland State University, University of Tennessee, University of Oregon.
2009 University of South Carolina, Colorado Environmental and Resource Economics Workshop, University of California at San Diego.

INVITED WORKSHOPS

2011-2015: NIMBioS Working Group on Pretty Darn Good Control: Extensions of Optimal Control for Ecological Systems

2013: Mathematical Biosciences Institute, Ohio State University, Sustainable Management of Living Natural Resources.

2008: Workshop for Technical Change in Renewable Resource Economics, Helsingor, Denmark

SERVICE & CONSULTING:

National Oceanic and Atmospheric Association, City of Knoxville, World Bank. Advisory Board member for National Institute of Mathematical and Biological Synthesis. University of Tennessee Microeconomics Qualifying Committee 2011-2015. Co-founder Baker Center Energy and Environment Forum. Ad Hoc reviewer for Sloan Foundation and National Science Foundation. The Prison Scholar Fund advisor. MSJAR reviewer. 2017 Microsoft Digital Economics Conference Organizer.

PROFESSIONAL AFFILIATIONS:

AERE, AEA.

REFEREEING:

American Economic Journal: Economic Policy, American Journal of Agricultural Economics, Ecological Applications, Econometrica, Economic Inquiry, Economics Letters, Environmental and Resource Economics, Environmental Science and Technology, Journal of the Association of Environmental and Resource Economists, Journal of Behavioral and Experimental Economics, Journal of Economic Behavior and Organization, Journal of Economic Psychology, Journal of Environmental Economics and Management, Journal of Environmental Management, Journal of Public Economics, Marine Resource Economics, Natural Resource Modeling, Resource and Energy Economics, SIAM Journal on Applied Mathematics.

TEACHING:

University of Washington

Economics 504: Executive Economics

Economics 404: Industrial Organization and Data Science (Undergraduate)

Economics 487: Data Science and Pricing (Undergraduate)

Microsoft

Research Week: Econometrics and Pricing

Research Week: Causal Inference and Pricing

Data Science Summer School

University of Tennessee

Economics 678: Environmental Economics and Policy (PhD)

Economics 698: Interdisciplinary Research & Energy and Environmental Policy (PhD)

Economics 581: Mathematical Tools for Economists (PhD)

Economics 482: Introduction to Mathematical Economics (Undergraduate)

Economics 463: Environmental Economics (Undergraduate)
Economics 312: Managerial Economics (Undergraduate)

ADVISING:

PhD: Yin Chu, 2015, Zhongnan University of Economics and Law, Co-Chair
Matt McMahon, 2015, University of Arkansas, Little Rock, Committee
Sangsoo Park, 2015, Korea Institute of Industrial Economics and Trade, Committee
Rachel Fovargue, 2017, Committee, Post-Doc, University of Oklahoma
Masters: Sharon Watson (Spring 2012, Committee)
Honors Thesis: Robert Davis (Spring 2013), Zach Hethmon (Spring 2014), Hannah Oakley (Fall 2014)