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APPOINTMENTS 2014-Present Research Associate, Massachusetts Institute of Technology  
2015-Present High Meadows Senior Economist, Environmental Defense Fund

DEGREES 2014 Ph.D. in Agricultural and Resource Economics, University of California at Berkeley  
2011 M.S. in Business and Public Policy, University of California at Berkeley  
2008 B.S. in Applied Economics and Management, Cornell University

RESEARCH FIELDS Energy and Environmental Economics, Industrial Organization, Labor Economics and Applied Econometrics

PUBLICATIONS “The Effects of Regulation in the Presence of Multiple Unpriced Externalities: Evidence from the Transportation Sector” (with Antonio Bento, Daniel Kaffine and Kevin Roth), *American Economic Journal: Economic Policy* 6.3 (2014): 1-29.

“Downstream Regulation of  $CO_2$  Emissions in California’s Electricity Sector” (with James Bushnell and Yihsu Chen), *Energy Policy* 64 (2014): 313-323.

SUBMITTED AND WORKING PAPERS “Expecting the Unexpected: Emissions Uncertainty and Environmental Market Design” (with Severin Borenstein, James Bushnell and Frank Wolak) (2016), revisions requested by the *American Economic Review*.

“Allocation, Efficiency and Rent-Seeking in the All-Pay Auction with Resale” (2016), under review.

“Raising Rivals’ Costs: Vertical Market Power in Natural Gas Pipelines and Wholesale Electricity Markets” (with Levi Marks, Chuck Mason and Kristina Mohlin) (2016).

“Strategic Response to Environmental Regulation: Evidence from U.S. Heavy-Duty Vehicle Air Pollution Regulations” (with Katherine Rittenhouse) (2016).

“Transportation, Partial Regulation and Emissions Leakage: Evidence from a Field (Quasi)Experiment” (2015).

WORK IN PROGRESS “Equity, Efficiency and Trade: How Much Does Individual Experience Matter?” (with Katherine Rittenhouse).

“Output-based Allocation in Greenhouse Gas Cap-and-Trade Programs: Evidence from a Matched Sample of Industrial Facilities” (with Katherine Rittenhouse).

“Pollution Co-benefits from Greenhouse Gas Regulations: Evidence from a Matched Sample of Industrial Facilities” (with Kira Fabrizio and Katherine Rittenhouse).

“Transportation, Partial Regulation and Emissions Leakage: Evidence from the Fatality Analysis Reporting System.”

“Environmental Regulation, Production Reallocation and Quality: Evidence from the Clean Air Act Amendments” (with Jeremy West).

ACADEMIC  
EXPERIENCE

2014-2015 E2e Post-doctoral Fellow, Center for Energy and Environmental Policy Research, MIT  
 2013-2014 Visiting Scholar, Department of Economics, MIT  
 2012-2013 Graduate Student Researcher, Energy Institute at Haas, UC Berkeley  
 2011-2012 Graduate Student Instructor, Department of Economics, UC Berkeley  
 2010-2011 Graduate Student Instructor, Haas School of Business, UC Berkeley  
 2008-2010 Graduate Student Researcher, Haas School of Business, UC Berkeley

PROFESSIONAL  
EXPERIENCE

2014-2015 High Meadows Post-doctoral Fellow, Environmental Defense Fund  
 2008-2012 Air Pollution Specialist, California Air Resources Board

FELLOWSHIPS AND  
GRANTS

EDF Behavioral Economics Research Grant for “Equity, Efficiency and Trade: How Much Does Individual Experience Matter?” (2016)  
 Energy Foundation Research Grant for “Strategic Response to Environmental Regulation: Evidence from U.S. Heavy-Duty Vehicle Air Pollution Regulations” (2014)  
 UC Berkeley Graduate Division Summer Research Grant (2012)  
 Fisher Center for Real Estate Dissertation Grant (2012)  
 King Family-US Renewables Renewable Energy Scholars Award (2011)  
 Sandor Fellowship for the Study of Renewable Energy and Energy Markets (2010)  
 Institute for Business Innovation Fellowship (2009)

INVITED  
PRESENTATIONS

AERE Annual Summer Conference (Banff, 2013), UCEI Energy Camp (Berkeley, 2013), Northeast Workshop on Energy Policy and Environmental Economics (Ithaca, 2013), ARE Environment and Resource Economics Seminar (Berkeley, 2013), Boalt Law & Economics Seminar (Berkeley, 2013), UCEI Energy Camp (Berkeley, 2014), MIT Public Economics Lunch (Cambridge, 2014), Harvard Environmental Economics Lunch (Cambridge, 2014), Harvard Environmental Economics Lunch (Cambridge, 2015), U.S. Environmental Protection Agency (Ann Arbor, 2015), AERE Annual Summer Conference (San Diego, 2015), AEA Annual Meetings (San Francisco, 2016), EDF Applied Environmental Economics Seminar (New York, 2016), Harvard Environmental Economics Lunch (Cambridge, Spring 2016), USDA Agricultural Outlook Forum (Washington, 2016), AERE Annual Summer Conference (Breckenridge, 2016), Harvard Environmental Economics Lunch (Cambridge, Fall 2016), AEA Annual Meetings (Chicago, 2017).

REFEREE

*Climate Change, Economic Inquiry, Environment and Development Economics, Journal of Applied Econometrics, Journal of the Association of Environmental and Resource Economists, Journal of Environmental Economics and Management, Journal of Policy Analysis and Management, Journal of Public Economics, International Review of Industrial Organization, Resource and Energy Economics*