

JOSEPH E. ALDY

PROFESSOR OF THE PRACTICE OF PUBLIC POLICY
HARVARD KENNEDY SCHOOL

John F. Kennedy School of Government
Ofer 403, Mailbox 114
79 John F. Kennedy Street
Cambridge, MA 02138
V: 617-496-7213
E: joseph_aldy@hks.harvard.edu
I: <https://scholar.harvard.edu/jaldy>
T: @josephaldy

Education:

Doctor of Philosophy, Department of Economics, Harvard University, 2005
Master of Environmental Management, Nicholas School of the Environment, 1995
Bachelor of Arts, Duke University, 1993

Professional Experience:

2019-present	Professor of the Practice of Public Policy Harvard Kennedy School
2015-2019	Associate Professor of Public Policy Harvard Kennedy School
2009-2015	Assistant Professor of Public Policy Harvard Kennedy School (public service leave Jan 2009 – Dec 2010; paternity leave 2012)
2011-present	University Fellow / Visiting Fellow / Non-Resident Fellow Resources for the Future
2011-present	Faculty Research Fellow National Bureau of Economic Research
2014-present	Senior Adviser Center for Strategic and International Studies
2019-present	Kentucky Colonel, Commonwealth of Kentucky
2020-2021	Visiting Scholar Phi Beta Kappa
2016	Visiting Scholar Kleinman Center for Energy Policy, University of Pennsylvania
2015	Non-Resident Fellow Center on Global Energy Policy, Columbia University
2015	Lone Mountain Fellow Property & Environment Research Center
2009-2010	Special Assistant to the President for Energy and Environment National Economic Council and Office of Energy and Climate Change, The White House
2005-2009	Fellow

2007-2008	Resources for the Future Adjunct Assistant Professor Department of Economics, Georgetown University
2008	Adjunct Professor Georgetown Public Policy Institute
2007	Lecturer Applied Economics Master's Program, Johns Hopkins University
1999-2000	Senior Economist for the Environment and Natural Resources Council of Economic Advisers, Executive Office of the President
1998-1999	Senior Advisor for the Global Environment Council of Economic Advisers, Executive Office of the President
1997-1998	Staff Economist for the Environment and Natural Resources Council of Economic Advisers, Executive Office of the President
1996-1997	Economist Natural Resources and Environment Division, Economic Research Service
1995-1996	Associate in Research Nicholas School of the Environment

Other Professional Affiliations:

2011-present	Faculty Chair, Regulatory Policy Program, Mossavar-Rahmani Center for Business and Government
2019-present	Columnist, "The Economic Perspective," <i>The Environmental Forum</i>
2016-present	Member, Advisory Committee for the Energy and Environment Program, Alfred P. Sloan Foundation
2016-present	Member, Advisory Board, <i>The Environmental Forum</i>
2015-present	Member, Editorial Advisory Panel, <i>Nature Energy</i>
2015-present	Trustee, Board of Trustees, Robert and Patricia Switzer Foundation (Chair 2019-present)
2011-present	Member, Editorial Board, <i>Economics of Energy and Environmental Policy</i>
2011-present	Faculty Affiliate, Mossavar-Rahmani Center for Business and Government
2011-present	Faculty Affiliate, Taubman Center for State and Local Government
2011-present	Faculty Fellow, Harvard Environmental Economics Program
2011-present	Faculty Associate, Harvard University Center for the Environment
2017-present	Contributor, Harvard-China Project on Energy, Economy, and Environment
2008-2009	Treasurer, Association of Environmental and Resource Economists
2007-2009	Co-Director, Harvard Project on International Climate Agreements
2006-2009	Co-Director, International Energy Workshop

Awards:

2008	Nicholas School of the Environment Rising Star Alumni Award
2005	Stone Pre-Doctoral Fellowship in Environmental and Resource Policy (Winner of Best Paper on Environmental and Resource Policy by Harvard University doctoral student)
2003	Certificate of Distinction in Teaching, Harvard University
2002	Certificate of Distinction in Teaching, Harvard University

Research Grants and Fellowships:

Harvard Solar Geoengineering Research Program, “Decision Theory and Anomalies on Solar Geoengineering,” Co-Principal Investigator, 2020-2021

Resources for the Future, “Solar Radiation Management Dialogue,” Co-Principal Investigator, 2020

Research Institute of Innovative Technology for the Earth, “Advancing Global Efforts to Address Climate Change Risks,” Co-Principal Investigator, 2020-2021

Research Institute of Innovative Technology for the Earth, “Evaluating Global Climate Change Policy in Practice,” Co-Principal Investigator, 2019-2020

Research Institute of Innovative Technology for the Earth, “Evaluating the Competitiveness Effects of Global Climate Change Policy,” Co-Principal Investigator, 2018-2019

Alfred P. Sloan Foundation, “Evaluating the Performance of Energy and Environmental Regulations,” Principal Investigator, 2017-2018

Alfred P. Sloan Foundation, “Energy Policy Tradeoffs between Economics Efficiency and Distributional Equity,” Research Team Member – Efficiency and Distributional Consequences of Subsidies for Energy-Efficient Appliances paper, 2016-2017

Research Institute of Innovative Technology for the Earth, “Transparency, Policy Surveillance, and Levels of Effort,” Co-Principal Investigator, 2016-2018

National Science Foundation/NBER, “Boutique Fuel Markets and Security-Environment-Economic Trade-offs,” Grantee under NBER Economics of Energy Markets NSF Grant, 2016-2017

Alfred P. Sloan Foundation, “The Efficiency and Fiscal Implications of Multiple, Overlapping Energy and Environmental Policies,” Principal Investigator, 2015-2017

Alfred P. Sloan Foundation, “Durability and Adaptability in Energy Policy,” Study Group Member, 2014-2016

Electric Power Research Institute, “The Competitiveness Effects of Domestic Climate Policy: A State-Level Evaluation,” Principal Investigator, 2011-2012.

Smith Richardson Foundation Domestic Policy Fellowship, “The Competitiveness Effects of U.S. Climate Change Policy,” Principal Investigator, 2009. [Note: fellowship resources could not be accepted as condition of appointment in the Obama Administration.]

Doris Duke Charitable Foundation, “Beyond Kyoto: Designing the Post-2012 International Policy Architecture to Address Global Climate Change,” Co-Principal Investigator, 2007-2009.

Pew Center on Global Climate Change, “Competitiveness Impacts of Climate Change Mitigation Policies,” Principal Investigator, 2007-2008.

Electric Power Research Institute, “Efficient Mechanisms for U.S. Domestic Climate Policy,” Principal Investigator, 2007.

USDA Economic Research Service, “Managing Invasive Species Risks,” Co-Principal Investigator, 2006-2008.

Morris K. Udall Scholarship and Excellence in National Environmental Policy Foundation Fellowship, 2004-2005.

Repsol YPF-Harvard Kennedy School Energy Policy Fellowship, 2003-2004.

Switzer Foundation Environmental Fellowship, 2003-2004.

STAR Fellowship, U.S. Environmental Protection Agency, 2000-2003.

Presidential Management Internship, Executive Office of the President and USDA Economic Research Service, 1996-1998.

NNEMS Fellowship, U.S. Environmental Protection Agency, 1994.

Working Papers:

["The Welfare Implications of Carbon Price Certainty"](#) (with Sarah Armitage)

["Retrospective Analysis in an Era of Deregulation – Lessons from MATS"](#) (with Mary Evans, Karen Palmer, Meredith Fowlie, Arik Levinson, and Matthew Kotchen)

["Looking Back at 50 Years of the Clean Air Act "](#) (with Max Auffhammer, Maureen Cropper, Art Fraas, and Dick Morgenstern)

["The Not-Starting-from-Scratch Problem in Climate Policy: Designing a Carbon Tax for the Real World"](#)

["The Political Economy of Carbon Pricing for a 2°C World"](#)

["Evaluating a Discretionary Safety Valve: The Economic and Environmental Impacts of Waiving Fuel Content Regulations in Response to Supply Shocks"](#)

["Climate Reparations or Redistribution?"](#)

["Heterogeneity in the Value of Life"](#) (with Seamus J. Smyth)

["The Labor Market Impacts of the 2010 *Deepwater Horizon* Oil Spill and Offshore Drilling Moratorium"](#)

["Designing Energy and Environmental Fiscal Instruments to Improve Public Health"](#)

["The Efficiency Consequences of Heterogeneous Behavioral Responses to Energy Fiscal Policies"](#)
(with Sébastien Houde)

["Evaluating Mitigation Effort: Tools and Institutions for Assessing Nationally Determined Contributions"](#)

["Living Mitigation Plans: The Co-Evolution of Mitigation Pledge and Review"](#)

["Capital versus Output Subsidies: Implications for Alternative Incentives for Wind Investment"](#)
(with Todd D. Gerarden and Richard L. Sweeney)

["Life-Saving Information: Mortality Risk Reduction from Air Quality Forecasts"](#) (with Marie-Abele Bind)

["Information Provision and Countervailing Risks: The Case of UV-Index and Ozone Pollution Forecasts"](#)

["Learning from Experience: An Assessment of the Retrospective Reviews of Agency Rules and the Evidence for Improving the Design and Implementation of Regulatory Policy"](#)

["Distributional Consequences of Environmental and Safety Regulations: Insights from Labor Market Decisions"](#) (with Seamus J. Smyth)

["Focal Carbon Prices"](#)

["Evaluating the Paris Agreement's Mitigation Pledges with Statistical Forecasting Models"](#) (with Cuicui Chen and William A. Pizer)

Research Papers in Progress:

"The Competitiveness Impacts of Climate Change Policy under the Paris Framework" (with William A. Pizer, Keigo Akimoto, Francesco Bosello, Carlo Carraro, Takashi Homma, and Ramiro Parrado)

"Evaluating the Competitiveness Effects of Global Climate Change Policy" (with William A. Pizer)

"Evaluating Policy Design Options of a Carbon Border Tax Adjustment" (with John Agan, Wesley Look, and Gilbert Metcalf)

"The Impacts of Power Sector Carbon Regulations on the Manufacturing Labor Market" (with William A. Pizer)

"The Additionality of the Clean Development Mechanism: A Macro Perspective" (with Gabriel Chan)

"The Climate Transparency Conundrum"

"Evaluating U.S. Regulatory Policy Performance"

"Negotiators vs. Regulators: When Should Domestic Regulations Account for Global Impacts?"

Publications – Journal Articles:

["National Climate Policies and Corporate Internal Carbon Pricing"](#) *The Energy Journal*, with Nuno Bento and Gianfranco Gianfrate, forthcoming.

["Rolling the Dice in the Corridors of Power: William Nordhaus's Impacts on Climate Change Policy."](#) *Climate Change Economics*, with Robert N. Stavins, forthcoming.

["Evaluating Regulatory Performance: Learning from and Institutionalizing Retrospective Analysis of EPA Regulations."](#) *Case Western Reserve Law Review* 70(4): 971-1006, 2020.

["Three Prongs for Prudent Climate Policy."](#) *Southern Economic Journal* 87(1): 3-29, with Richard Zeckhauser, 2020.

["The Cost-effectiveness Implications of Carbon Price Certainty."](#) *American Economic Association Papers and Proceedings* 110: 113-118, with Sarah Armitage, 2020.

- ["Deep Flaws in a Mercury Regulatory Analysis."](#) *Science* 368: 247-248, with Matthew Kotchen, Mary Evans, Meredith Fowlie, Arik Levinson, and Karen Palmer, 2020.
- ["Carbon Tax Review and Updating: Institutionalizing an Act-Learn-Act Approach to U.S. Climate Policy."](#) *Review of Environmental Economics and Policy* 14(1): 76-94, 2020.
- ["Birds of a Feather: Estimating the Value of Statistical Life from Dual-Earner Families."](#) *Journal of Risk and Uncertainty* 58(2): 187-205, 2019.
- ["Future-Proof Your Climate Strategy."](#) *Harvard Business Review*, May/June 2019, 91-101, with Gianfranco Gianfrate, 2019.
- ["Comparability in Sustainability Goals: A Broader Assessment of the Paris Pledges."](#) *Nature Climate Change* 8(4): 124-129, with Gokul Iyer, Katherin Calvin, Leon Clarke, James Edmonds, Nate Hultman, Corinne Hartin, Haewon McJeon, and William Pizer, 2018.
- ["Consumers' Response to State Energy Efficient Appliance Rebate Programs."](#) *American Economic Journal: Economic Policy* 9(4): 227-255, with Sébastien Houde, 2017.
- ["Policy Surveillance in the G20 Fossil Fuel Subsidies Agreement: Lessons for Climate Policy."](#) *Climatic Change* 144: 97-110, 2017.
- ["Designing and Updating a U.S. Carbon Tax in an Uncertain World."](#) *Harvard Environmental Law Review* 41: 28-40, 2017.
- ["Resolving the Inherent Uncertainty of Carbon Taxes: Introduction."](#) *Harvard Environmental Law Review* 41: 1-13, with Marc Hafstead, Gilbert E. Metcalf, Brian C. Murray, William A. Pizer, Christina Reichert, and Robertson C. Williams III, 2017.
- ["Frameworks for Evaluating Policy Approaches to Address the Competitiveness Concerns of Mitigating Greenhouse Gas Emissions."](#) *National Tax Journal* 70(2): 395-420, 2017.
- ["Comparing Emissions Mitigation Efforts across Countries."](#) *Climate Policy* 17(4): 501-515, with William A. Pizer and Keigo Akimoto, 2016.
- ["The Political Economy of Clinton's Ambitious Energy Program."](#) *Nature Energy* 1(10), 2016.
- ["Economic Tools to Promote Transparency and Comparability in the Paris Agreement."](#) *Nature Climate Change* 6(11): 1000-1004, with William Pizer, Massimo Tavoni, Lara Aleluia Reis, Keigo Akimoto, Geoffrey Blanford, Carlo Carraro, Leon E. Clarke, James Edmonds, Gokul C. Iyer, Haewon C. McJeon, Richard Richels, Steven Rose, and Fuminori Sano, 2016.
- ["Mobilizing Political Action on Behalf of Future Generations."](#) *The Future of Children* 26(1): 157-178, 2016.

- ["Alternative Metrics for Comparing Domestic Climate Change Mitigation Efforts and the Emerging International Climate Policy Architecture."](#) *Review of Environmental Economics and Policy* 10: 3-24, with William A. Pizer, 2016.
- ["Competitiveness Impacts of Climate Change Mitigation Policies."](#) *Journal of the Association of Environmental and Resource Economists* 2(4): 565-595, with William A. Pizer, 2015.
- ["Pricing Climate Risk Mitigation."](#) *Nature Climate Change* 5: 396-398, 2015.
- ["Review of Planetary Economics: Energy, Climate Change and the Three Domains of Sustainable Development, by Michael Grubb with Jean-Charles Hourcade and Karsten Neuhoff."](#) *Economics of Energy and Environmental Policy* 4(1): 167-170, 2015.
- ["Using and Improving the Social Cost of Carbon."](#) *Science* 346: 1181-1182, with William Pizer, Matthew Adler, David Anthoff, Maureen Cropper, Kenneth Gillingham, Michael Greenstone, Brian Murray, Richard Newell, Richard Richels, Arden Rowell, Stephanie Waldhoff, and Jonathan Wiener, 2014.
- ["The Crucial Role of Policy Surveillance in International Climate Policy."](#) *Climatic Change* 126(3-4): 279-292, 2014.
- ["Risk Regulation Lessons from Mad Cows."](#) *Foundations and Trends in Microeconomics* 8(4), with W. Kip Viscusi, 2013.
- ["The Case for a U.S. Carbon Tax."](#) *Oxford Energy Forum* 91: 13-16, 2013.
- ["A Preliminary Assessment of the American Recovery and Reinvestment Act's Clean Energy Package."](#) *Review of Environmental Economics and Policy* 7(1): 136-155, 2013.
- ["Review of Climate Change and Common Sense: Essays in Honour of Tom Schelling, edited by Robert W. Hahn and Alistair Ulph."](#) *Journal of Regional Science* 53(1): 201-203, 2013.
- ["Climate Negotiators Create an Opportunity for Scholars."](#) *Science* 337: 1043-1044, with Robert N. Stavins, 2012.
- ["Willingness to Pay and Political Support for a U.S. National Clean Energy Standard."](#) *Nature Climate Change* 2: 596-599, with Matthew J. Kotchen and Anthony A. Leiserowitz, 2012.
- ["The Promise and Problems of Pricing Carbon: Theory and Experience."](#) *Journal of Environment and Development* 21(2): 152-180, with Robert N. Stavins, 2012.
- ["Using the Market to Address Climate Change: Insights from Theory and Experience."](#) *Daedalus* 141(2): 45-60, with Robert N. Stavins, 2012.
- ["Promoting Clean Energy in the American Power Sector: A Proposal for a National Clean Energy Standard."](#) *Environmental Law Reporter* 42: 10131-10149, 2012.

- ["Real-Time Economic Analysis and Policy Development During the BP Deepwater Horizon Oil Spill."](#) *Vanderbilt Law Review* 64(6): 1795-1817, 2011.
- ["The Environmental Justice Dimensions of Climate Change."](#) *Environmental Justice* 4(1): 17-25, with Marie Lynn Miranda, Douglas A. Hastings, and William H. Schlesinger, 2011.
- ["Designing Climate Mitigation Policy."](#) *Journal of Economic Literature* 48(4): 903-934, with Alan J. Krupnick, Richard G. Newell, Ian W.H. Parry, and William A. Pizer, 2010. Reprinted in *Economics of the Environment: Selected Readings, Sixth Edition*, R.N. Stavins, ed., W.W. Norton, 2012, and *Seventh Edition*, Edward Elgar, 2019.
- ["Valuing the Risk of Death from Terrorist Attacks."](#) *Journal of Homeland Security and Emergency Management* 7(1): Article 14, with Lisa A. Robinson, James K. Hammitt, Alan Krupnick, and Jennifer Baxter, 2010.
- ["Introduction to the Frontiers of Environmental and Resource Economics."](#) *Journal of Environmental Economics and Management* 57(1): 1-4, with Alan. J. Krupnick, 2009.
- ["Issues in Designing U.S. Climate Change Policy."](#) *The Energy Journal* 30(3): 179-210, with William A. Pizer, 2009.
- ["A Tax-Based Approach to Slowing Global Climate Change."](#) *National Tax Journal* 61: 493-517, with Eduardo Ley and Ian W.H. Parry, 2008.
- ["Adjusting the Value of a Statistical Life for Age and Cohort Effects."](#) *Review of Economics and Statistics* 90(3): 573-581, with W. Kip Viscusi, 2008.
- ["Introduction to Special Symposium on Energy and Development in Africa."](#) *Energy Policy* 36(8): 2771-2772, with Mark Howells and Leo Schrattenholzer, 2008.
- ["Climate Policy Architectures for the Post-Kyoto World."](#) *Environment* 50(3): 6-17, with Robert N. Stavins, 2008.
- ["Age Differences in the Value of Statistical Life: Revealed Preference Evidence."](#) *Review of Environmental Economics and Policy* 1(2): 241-260, with W. Kip Viscusi, 2007.
- ["Labor Market Estimates of the Senior Discount for the Value of Statistical Life."](#) *Journal of Environmental Economics and Management* 53(3): 377-392, with W. Kip Viscusi, 2007.
- ["Energy and Carbon Dynamics at Advanced Stages of Development: An Analysis of the U.S. States 1960–1999."](#) *The Energy Journal* 28(1): 91-111, 2007.
- ["Divergence in State-Level Per Capita Carbon Dioxide Emissions."](#) *Land Economics* 83(3): 353-369, 2007.
- ["Per Capita Carbon Dioxide Emissions: Convergence or Divergence?"](#) *Environmental and Resource Economics* 33(4): 533-555, 2006.

["Review of Beyond Kyoto – A New Global Climate Certificate System by Lutz Wicke."](#) *Bulletin of the American Meteorological Society* 87: 1228-1229, 2006.

["An Environmental Kuznets Curve Analysis of U.S. State-Level Carbon Dioxide Emissions."](#) *Journal of Environment and Development*, U.S. EPA Special Issue 14(1): 48-72, 2005.

["The Value of a Statistical Life: A Critical Review of Market Estimates throughout the World."](#) *Journal of Risk and Uncertainty* 27(1): 5-76, with W. Kip Viscusi, 2003.

["Thirteen Plus One: A Comparison of Global Climate Policy Architectures."](#) *Climate Policy* 3(4): 373-397, with Scott Barrett and Robert N. Stavins, 2003.

["Environmental Equity and the Conservation of Unique Ecosystems: An Analysis of the Distribution of Benefits for Protecting Southern Appalachian Spruce-Fir Forests."](#) *Society and Natural Resources* 12: 93-106, with Randall A. Kramer and Thomas P. Holmes, 1999.

["The Role of Technology in Sustaining Agriculture and the Environment."](#) *Ecological Economics* 26: 81-96, with James Hrubovcak and Utpal Vasavada, 1998.

["Unit Pricing of Residential Municipal Solid Waste: Lessons from Nine Case Study Communities."](#) *Journal of Environmental Management* 52(1): 79-93, with Marie Lynn Miranda, 1998.

"Economics of Sustainable Agriculture." *Agricultural Outlook* 238: 21-24, with Utpal Vasavada and Jim Hrubovcak, 1997.

"Recycling Jumps When Communities Use Unit Pricing for Residential Garbage." *Resource Recycling* 15(8): 27-31, with Marie Lynn Miranda, 1996.

Publications – Edited Books:

[*Post-Kyoto International Climate Policy: Implementing Architectures for Agreement.*](#) New York: Cambridge University Press, with Robert N. Stavins, 2010.

[*Post-Kyoto International Climate Policy: Summary for Policymakers.*](#) New York: Cambridge University Press, with Robert N. Stavins, 2009.

[*Architectures for Agreement: Addressing Global Climate Change in the Post-Kyoto World.*](#) New York: Cambridge University Press, with Robert N. Stavins, 2007.

Publications – Book Chapters:

["Co-Benefits and Regulatory Impact Analysis: Theory and Evidence from Federal Air Quality Regulations."](#) *Environmental and Energy Policy and the Economy*, Volume 2, Matthew Kotchen, James Stock, and Catherine Wolfram, eds., NBER/University of Chicago Press, with Matthew Kotchen, Mary Evans, Meredith Fowlie, Arik Levinson, and Karen Palmer, forthcoming.

["Economic Instruments: The Ethics of Saving the Planet Cost-Effectively."](#) *Routledge Companion to Environmental Ethics*, Benjamin Hale and Andrew Light, eds. Routledge, forthcoming.

["Pricing Pollution through Market-based Instruments."](#) *Handbook of U.S. Environmental Policy*, David Konisky, ed., Edward Elgar, 2020.

["Promoting Environmental Quality through Fuels Regulations: Lessons for a Durable Energy and Climate Policy."](#) *Lessons from the Clean Air Act: Building Durability and Adaptability into U.S. Climate and Energy Policy*, Dallas Burtraw and Ann Carlson, eds. Cambridge University Press, 2019.

["Evaluating the Performance of Regulations and Regulatory Institutions."](#) *Research Agenda for New Institutional Economics*, Claude Ménard and Mary M. Shirley, eds. Edward Elgar, 2018.

["Policy Surveillance: Its Role in Monitoring, Reporting, Evaluating and Learning."](#) *Governing Climate Change: Polycentricity in Action?*, Harro van Asselt, Johanna Forster, David Huitema, and Andy Jordan, eds. Cambridge University Press, 2018.

["Comparing Emission Mitigation Pledges: Metrics and Institutions."](#) *Towards a Workable and Effective Climate Regime*, Scott Barrett, Carlo Carraro, and Jaime de Melo, eds. Fondation pour les Etudes et Recherches sur le Développement International, with William A. Pizer, 2015.

["Comparing Countries' Climate Mitigation Efforts in a Post-Kyoto World."](#) *Implementing a US Carbon Tax: Challenges and Debates*, Ian Parry, Adele Morris, and Roberton C. Williams III, eds. Routledge, with William A. Pizer, 2015.

["Environmental Risk and Uncertainty."](#) *Handbook of the Economics of Risk and Uncertainty*, Volume 1, Mark J. Machina and W. Kip Viscusi, eds., Elsevier, with W. Kip Viscusi, 601-649, 2014.

["Foreword."](#) *Toward a New Climate Agreement: Conflict, Resolution, and Governance*. Todd Cherry, Jon Hovi, and David McEvoy, eds., Routledge, 2014.

["The Employment and Competitiveness Impacts of Power-Sector Regulations."](#) *Does Regulation Kill Jobs?* Cary Coglianese, Adam Finkel, and Chris Carrigan, eds. Philadelphia: University of Pennsylvania Press, with William A. Pizer, 2014.

["Eliminating Fossil Fuel Subsidies."](#) *15 Ways to Rethink the Federal Budget*, Michael Greenstone, Max Harris, Karen Li, Adam Looney, and Jeremy Patashnik, eds. Washington, DC: The Hamilton Project, Brookings Institution, 31-35, 2013.

["Designing a Bretton Woods Institution to Address Global Climate Change."](#) *Handbook of Energy and Climate Change*, Roger Fouquet, ed. Cheltenham, UK: Edward Elgar, 2013.

["Designing the Post-Kyoto Climate Regime."](#) *The Quest for Security: Protection without Protectionism and the Challenge of Global Governance*, Mary Kaldor and Joseph Stiglitz, eds. New York: Columbia University Press, with Robert N. Stavins, 2013.

["Introduction."](#) *Post-Kyoto International Climate Policy: Implementing Architectures for Agreement*, Joseph E. Aldy and Robert N. Stavins, eds. New York: Cambridge University Press, 1-28, with Robert N. Stavins, 2010.

["Lessons for the International Policy Community."](#) *Post-Kyoto International Climate Policy: Implementing Architectures for Agreement*, Joseph E. Aldy and Robert N. Stavins, eds. New York: Cambridge University Press, 899-929, with Robert N. Stavins, 2010.

["Introduction and Overview."](#) *Post-Kyoto International Climate Policy: Summary for Policymakers*, Joseph E. Aldy and Robert N. Stavins, eds. New York: Cambridge University Press, 1-25, with Robert N. Stavins, 2009.

["Lessons for the International Policy Community."](#) *Post-Kyoto International Climate Policy: Summary for Policymakers*, Joseph E. Aldy and Robert N. Stavins, eds. New York: Cambridge University Press, 27-55, with Robert N. Stavins, 2009.

["Comment on Jeffrey A. Frankel's 'Addressing the Leakage/Competitiveness Issue in Climate Change Policy Proposals.'"](#) *Climate Change, Trade and Competitiveness: Is a Collision Inevitable?* Lael Brainard and Isaac Sorkin, eds. Washington, DC: Brookings Institution Press, 83-88, 2009.

["Towards a Post-Kyoto International Climate Policy Regime."](#) *Beyond Copenhagen: A Climate Policymaker's Handbook*. Juan Delgado and Stephen Gardner, eds. Brussels: Bruegel Books, 53-59, with Robert N. Stavins, 2009.

["Introduction: International Policy Architecture for Global Climate Change."](#) *Architectures for Agreement: Addressing Global Climate Change in the Post-Kyoto World*, Joseph E. Aldy and Robert N. Stavins, eds. New York: Cambridge University Press, 1-27, with Robert N. Stavins, 2007.

["Architectures for an International Global Climate Change Agreement: Lessons for the Policy Community."](#) *Architectures for Agreement: Addressing Global Climate Change in the Post-Kyoto World*, Joseph E. Aldy and Robert N. Stavins, eds. New York: Cambridge University Press, 350-367, with Robert N. Stavins, 2007.

["Competitiveness Impacts of Carbon Dioxide Pricing Policies on Manufacturing."](#) *Assessing U.S. Climate Policy Options*, Raymond J. Kopp and William A. Pizer, eds. Washington, DC: Resources for the Future, with Richard Morgenstern, Evan M. Herrnsstadt, Mun Ho, and William A. Pizer, 95-105, 2007.

["Assessing the Costs of Regulatory Proposals for Reducing U.S. Greenhouse Gas Emissions."](#) *Assessing U.S. Climate Policy Options*, Raymond J. Kopp and William A. Pizer, eds. Washington, DC: Resources for the Future, 53-68, 2007.

["Saving the Planet Cost-Effectively: The Role of Economic Analysis in Climate Change Mitigation Policy."](#) *Painting the White House Green: Rationalizing Environmental Policy Inside the Executive Office of the President*, Randall Lutter and Jason F. Shogren, eds. Washington, DC: Resources for the Future Press, 89–118, 2004.

["Addressing Cost: The Political Economy of Climate Change."](#) *Beyond Kyoto: Advancing the International Effort Against Climate Change*. Arlington, VA: Pew Center on Global Climate Change, 85-110, with Richard Baron and Laurence Tubiana, 2003.

"Can Annex I Countries Meet Their Emissions Targets at Modest Costs?" *The Kyoto Commitments: Can Nations Meet Them with the Help of Technology?* C.E. Walker, M.A. Bloomfield, M. Thorning, eds. Washington, DC: American Council for Capital Formation, 67-73, 2000.

Publications – Policy Magazines, Non-Technical Papers, Op-Eds, and Reports:

["Crafting a Climate-Oriented Stimulus Recovery Program."](#) *The Environmental Forum*, September/October 2020, 15.

["Employing a Broader Policy Toolkit to Mitigate Climate Change Risks."](#) *The Environmental Forum*, July/August 2020, 15.

["Data from Expanded Surveillance Shows the Value of Information."](#) *The Environmental Forum*, May/June 2020, 15.

["Markets Don't Deny the Existence or Risks of Global Climate Change."](#) *The Environmental Forum*, March/April 2020, 15.

["Managing the Environmental and Cost Uncertainties in Pricing Carbon."](#) *The Environmental Forum*, January/February 2020, 15.

["Report on the Proposed Changes to the Federal Mercury and Air Toxics Standards."](#) External Environmental Economics Advisory Committee Report, with Matthew Kotchen, Mary Evans, Meredith Fowlie, Arik Levinson, and Karen Palmer, 2019.

["Evaluating Development Given Our Obligation to Future Generations."](#) *The Environmental Forum*, November/December 2019, 17.

["More Study Needed of the Overall Impact of Rules on American Society."](#) *The Environmental Forum*, July/August 2019, 15.

["Benefits are Benefits – Regardless of How They Are Legally Obtained."](#) *The Environmental Forum*, May/June 2019, 15.

["A Few Keys to Saving the Planet Cost-effectively."](#) *The Environmental Forum*, March/April 2019, 50.

[“What Green New Deal Advocates Can Learn from the 2009 Economic Stimulus Act.”](#) *The Conversation*, February 2019; reprinted in [Houston Chronicle](#), [San Francisco Chronicle](#), [Seattle Post-Intelligencer](#), [Albany Times-Union](#), [Idaho Press-Tribune](#), [Laredo Morning Times](#), [Bozeman Daily Chronicle](#), and others.

[“Improving Regulatory Transparency Through Retrospective Analysis.”](#) *The Regulatory Review*, Penn Program on Regulation, 2018.

[“Trade Shifts Pollution More than Regs Shift Trade.”](#) *The Environmental Forum*, Sep/Oct 2018, 52.

[“Why a Minor Change to How EPA Makes Rules Could Radically Reduce Environmental Protection.”](#) *The Conversation*, June 2017; reprinted in the [LA Times](#), [Chicago Tribune](#), [Houston Chronicle](#), [San Francisco Chronicle](#), [Seattle Post-Intelligencer](#), [Business Insider](#), [Idaho Press-Tribune](#), New Haven Register, San Antonio Express-News, Albany Times-Union, Laredo Morning Times, [Plainview Daily Herald](#), and others.

[“Advancing Regulatory Policy to Improve the Lives of the American People.”](#) *The Regulatory Review*, Penn Program on Regulation, 2018.

[“Consumers’ Response to State Energy Efficient Appliance Rebate Programs.”](#) Cato Institute Research Briefs in Economic Policy No. 101, with Sébastien Houde, 2018.

[“Real World Policy Headwinds for Trump Climate Change Policy.”](#) *Bulletin of the Atomic Scientists* 73(6): 376-381, 2017.

[“The Political Economy of Carbon Pricing Policy Design.”](#) Harvard Project on Climate Agreements Discussion Paper ES17-7. October 2017.

[“Carbon Price Focal Points and Carbon Markets.”](#) In: R. Stavins and R. Stowe, eds., *Market Mechanisms and the Paris Agreement*, Harvard Project on Climate Agreements, October 2017.

[“Eliminating U.S. Fossil Fuel Production Subsidies.”](#) Scholars Strategy Network Policy Brief, March 2017.

[“Energy Market Shock Absorbers: Waiving Environmental Regulations in Response to Fuel Market Disruptions.”](#) Policy Digest, Kleinman Center for Energy Policy University of Pennsylvania, March 2017.

[“Curbing Climate Change Has a Dollar Value – Here’s How and Why We Measure It.”](#) *The Conversation*, March 2017; reprinted in [U.S. News and World Report](#), [Salon](#), [San Francisco Chronicle](#), [Idaho Press-Tribune](#), [Grist](#), [Bangor Daily News](#), [Bozeman Daily Chronicle](#), and others.

[“The Great Swap.”](#) *Democracy*, with Will Marshall, February 2017.

- [“What Trump Misses about Regulations: They Produce Benefits as Well as Costs.”](#) *The Conversation*, February 2017; reprinted in the San Francisco Chronicle, [Newsweek](#), [Louisville Courier-Journal](#), San Antonio Express-News, [Boston Business Journal](#), [Sacramento Business Journal](#), and others.
- [“Transparency, Policy Surveillance, and the Comparison of Mitigation Efforts.”](#) Resources for the Future Discussion Paper 16-46, with William A. Pizer and Keigo Akimoto, November 2016.
- [“Long-term Carbon Policy: The Great Swap.”](#) Published by the Progressive Policy Institute. November 2016.
- [“The Role of Domestic Policy Surveillance in the Multilateral Climate Regime.”](#) In: R. Stavins and R. Stowe, eds., *The Paris Agreement and Beyond: International Climate Change Policy Post-2020*, Harvard Project on Climate Agreements, October 2016.
- [“Bilateral Cooperation between China and the United States: Facilitating Progress on Climate Change Policy.”](#) Harvard Project on Climate Agreements and the National Center for Climate Change Strategy and International Cooperation, with Thomas Brewer, Chen Ji, Fu Sha, Qi Yue, Robert Stavins, Robert Stowe, Wang Pu, Xiang Xiaohua, Zheng Shuang, and Zou Ji, February 2016.
- [“Comparison and Linkage of Heterogeneous Mitigation Systems in the Paris Regime.”](#) In: International Emissions Trading Association *Making Waves: Greenhouse Gas Market 2015-2016*, with Robert Stowe and Bianca Sylvester, 2015.
- [“As the U.S. Heads to Climate Talks, It Seeks a Plan to ‘Trust but Verify.’”](#) *The Conversation*, November 2015; reprinted in [Fortune](#), the [Christian Science Monitor](#), [chinadialogue.net](#), and other media outlets, translated in [The Conversation Francais](#).
- [“Need Transparency and Review Mechanisms.”](#) *The Environmental Forum*, Nov/Dec 2015, 48.
- [“The Road to Paris and Beyond: Comparing Emissions Mitigation Efforts.”](#) *Resources* 189: 18-25, with William A. Pizer, 2015.
- [“Heterogeneity in the Value of Life.”](#) *VoxEU*, August 14, 2014, with Seamus J. Smyth,
- [“Money for Nothing: The Case for Eliminating U.S. Fossil Fuel Subsidies.”](#) *Resources* 186: 32-37, 2014.
- [“OMB: Obscurity in Management and Budget?”](#) *Regulation* 36(4): 5-6, with Art Fraas and Randall Lutter, 2014.
- [“Financial Regulation Sans Analysis.”](#) *Politico* Op-Ed, with Art Fraas and Randall Lutter, June 20, 2012.
- [“Promoting Clean Energy in the American Power Sector.”](#) The Hamilton Project Discussion paper 2011-04, The Brookings Institution, 2011.

["An Economist's View of the Oil Spill from Inside the White House."](#) *Resources* 177: 28-29, 2011.

["Competitiveness Impacts of Climate Change Mitigation Policies."](#) Arlington, VA: Pew Center on Global Climate Change, with William A. Pizer, 2009.

["The Role of Technology Policies in an International Climate Agreement."](#) Issue Paper prepared for the Climate Dialogue, September 2-3, Office of the Prime Minister, Copenhagen, Denmark, with Robert N. Stavins, 2008.

["What Is the Role of Carbon Taxes in Climate Change Mitigation?"](#) World Bank PREMnotes, Special Series on The Economics of Climate Change, Number 2, with Eduardo Ley and Ian W.H. Parry, July 2008.

["Economic Incentives in a New Climate Agreement."](#) Issue Paper prepared for the Climate Dialogue, May 7-8, Office of the Prime Minister, Copenhagen, Denmark, with Robert N. Stavins, 2008.

["Climate Change and Energy Security: Lessons Learned."](#) AICGS Policy Report 35, American Institute for Contemporary German Studies, with Camilla Bausch and Michael Mehling, 2008.

["Forging a Climate Agreement that Works."](#) *Washington Post* PostGlobal Op-Ed, with Robert N. Stavins, December 17, 2007.

["Using Emission Fees to Curb Greenhouse Gases: A Primer."](#) Progressive Policy Institute Policy Memo, 2007.

["The Strategic Petroleum Reserve: A Short-Term Response."](#) *Resources* 163: 19-20, 2006.

"Heating Subsidies Make a Difference in Offsetting Winter Mortality Rates Among the Poor and Elderly." *Resources* 160: 5-6, 2006.

["Designing a Regime for Developing Countries that is Cost-Effective and Equitable."](#) Paper presented at the *Leaders' Summit on Post-Kyoto Architecture: Toward an L20?* Conference, Council on Foreign Relations, New York, NY, September 21, 2004, with Jeffrey A. Frankel.

["Climate Change: An Agenda for Global Collective Action."](#) AEI-Brookings Joint Center on Regulatory Affairs Related Publication, with Peter R. Orszag and Joseph E. Stiglitz, 2001.

[Unit Pricing Programs for Residential Municipal Solid Waste: An Assessment of the Literature.](#) Report submitted to the Climate Change Division, Office of Policy, Planning, and Evaluation, USEPA, with Miranda, Marie Lynn and Scott D. Bauer, October 1995.

A Framework for Estimating the Economic Benefits from Reduced Ambient Ozone Welfare Effects Under Alternative Secondary National Ambient Air Quality Standards. Durham, NC: Nicholas School of the Environment, Duke University. Master's Project, 1995.

Academic Seminar, Conference, and Workshop Research Presentations:

Academic Seminar (Zoom), Congressional Budget Office, 2020
 Academic Seminar (Zoom), Resources for the Future, 2020
 Academic Seminar, Georgia State University, 2020
 NBER Environment and Energy Economics and Policy Conference, National Bureau of Economic Research, Washington DC / Zoom, 2020
 Climate Change: Promoting Global Sustainability, *Journal of International Law* Annual Symposium, University of Pennsylvania Carey Law School, Philadelphia, PA, 2020
 Academic Seminar, Arizona State University, 2019
 Academic Seminar, University of Connecticut, 2019
 Academic Seminar, Harvard University, 2019
 BP / Harvard and Tufts Climate Policy Symposium, London, 2019
 The Environmental Protection Agency Turns 50, Case Western Reserve University School of Law, Cleveland, OH, 2019
 Risk Assessment, Economic Evaluation, and Decisions Workshop, Harvard University Center for the Environment, Cambridge, MA, 2019
 How Well Are Our Environmental Laws Working? Retrospective Analysis of Federal Environmental Regulation Workshop, Resources for the Future, Washington, DC, 2019
 AERE Summer Conference, Lake Tahoe, NV (two talks), 2019
 Spring 2019 Workshop, Center for Energy and Environmental Policy Research, MIT, Cambridge, MA, 2019
 America's Climate Change Future, Brown University, Providence, RI, 2019
 Academic Seminar, Duke University, 2018
 Academic Seminar, Harvard University, 2018 (multiple seminars)
 Political Economy of Energy Policy: Research Frontiers Workshop, Princeton University, Princeton, NJ, 2018
 Risk Guidelines for a Safer Society Symposium, Program in Law and Economics, Vanderbilt Law School, Nashville, TN, 2018
 Sixth World Congress of Environmental and Resource Economists (three presentations), Gothenburg, Sweden, 2018
 The Society for Benefit-Cost Analysis Annual Conference, Washington, DC, 2018
 Making Border Carbon Adjustments Work in Law and Practice, The Brookings Institution, Washington, DC, 2018
 AERE/American Economic Association, Annual Meeting, Philadelphia, PA, 2018
 Academic Seminar, Georgetown University, 2017
 Academic Seminar, Harvard Kennedy School, 2017
 Strengthening Energy Policy in the Northeast Region, American Academy of Arts & Sciences, Cambridge, MA, 2017
 Managing Environmental Risks: Markets, Regulation, and Adaptive Learning, Duke University and the Property and Environment Research Center, Durham, NC, 2017
 Strengthening Energy Policy in the Great Lakes Region, American Academy of Arts & Sciences and Ford School of Public Policy, University of Michigan, Ann Arbor, MI, 2017
 Harvard/Tufts/BP Climate Policy Workshop, London, 2017
 Market Mechanisms and the Paris Agreement, Research Workshop hosted by the Harvard Project on Climate Agreements, Harvard University, Cambridge, MA, 2017

Northeast Energy Policy and Environmental Economics Workshop, Dartmouth College, Hanover, NH, 2017

AERE Summer Conference, Pittsburgh, PA (two talks), 2017

Economics of Energy Markets Workshop, National Bureau of Economic Research, Washington, DC, 2017

Carbon Mitigation Initiative Sixteenth Annual Meeting, Princeton University, Princeton, NJ, 2017

Governing Climate Change: Polycentricity in Action? Workshop, hosted by Inogov and the Netherlands Open University, Heerlen, The Netherlands, 2017

Durability and Adaptability in Energy Policy Workshop, American Academy of Arts & Sciences, Washington, DC, 2017

Saving the Planet Cost-Effectively: Ambition, Fairness, and Markets in International Climate Policy, Clough Center on the Study of Constitutional Democracy, Boston College, 2017

Academic Seminar, University of Pennsylvania, 2016

Academic Seminar, University College London, 2016

Academic Seminar, London School of Economics, 2016

Academic Seminar, University of Oxford, 2016

Academic Seminar, University of California – Berkeley, 2016

Academic Seminar, Harvard Kennedy School, 2016

Academic Seminar, Columbia University, 2016

Durability and Adaptability in Energy Policy Workshop, American Academy of Arts & Sciences, Washington, DC, 2016 (July)

International Climate Change Policy after Paris, Research Workshop hosted by the Harvard Project on Climate Agreements, Harvard University, Cambridge, MA 2016

Implementing the Climate Agreement, XXXIX MIT Global Change Forum, Massachusetts Institute of Technology, Cambridge, MA, 2016

Moving on from Paris: Implementation Lessons from Social Science, Board on Environmental Change and Society, National Academy of Sciences, Washington, DC, 2016

Global Voices on Climate Change and the Paris Agreement, Center for Global Energy Policy, Columbia University, New York, NY, 2016

Energy Policy Tradeoffs between Economic Efficiency and Distributional Equity Conference, National Bureau of Economic Research, Cambridge, MA, 2016

Environmental and Energy Economics Spring Workshop, National Bureau of Economic Research, Cambridge, MA, 2016

Economics of Energy Markets Conference, National Bureau of Economic Research, Cambridge, MA, 2016

Fighting Climate Change with the Paris COP21 Agreement: Treat or Trick?, Jackson Institute for Global Affairs and Center for Study of Globalization, Yale University, New Haven, CT, 2016

Too Little Too Late? A Discussion of the Effects of the Paris Climate Agreement, University of Pennsylvania Law School, Philadelphia, PA, 2016

Durability and Adaptability in Energy Policy Workshop, American Academy of Arts & Sciences, Washington, DC, 2016 (February)

Yale Energy and Environment Day, Yale University, New Haven, CT, 2016

Academic Seminar, Duke University, 2015

Academic Seminar, Columbia University, 2015

Academic Seminar, Boston College, 2015

Academic Seminar, Harvard University, 2015

Academic Seminar, Harvard Kennedy School, 2015

Academic Seminar, Environmental Defense Fund, 2015
National Tax Association Annual Conference, Boston, MA, 2015
BP/Harvard Kennedy School/Fletcher School Symposium on Energy Policy, Cambridge, MA, 2015
Addressing Competitiveness and Leakage Concerns in a Carbon Tax: What Are the Options?
Workshop, Resources for the Future, Washington, DC, 2015
Kyoto's "Success," Copenhagen's "Failure," and Climate Policy after Paris, Stonehill College,
Easton, MA, 2015
Opening Keynote Lecture, Quinto Congreso Nacional de Investigación en Cambio Climático,
Universidad Nacional Autónoma de México, Mexico City, Mexico 2015
Lone Mountain Fellowship Seminar, Property & Environment Research Center, Bozeman, MT,
2015
Bilateral Cooperation between China and the United States: Facilitating Progress on Climate
Change Policy, National Center for Climate Strategy and International
Cooperation/National Development and Reform Commission and the Harvard Project
on Climate Agreements, Beijing, China, 2015
AERE Summer Conference, San Diego, CA, 2015
Inequality and the Economic Analysis of Climate Change Workshop, Center for Law, Economics,
and Public Policy, Duke University, Durham, NC, 2015
Comparison and Linkage of Mitigation Efforts in a New Paris Regime, Harvard Project on Climate
Agreements/International Emissions Trading Association/World Bank, Cambridge, MA,
2015
If Fossil Fuel Subsidies Are So Bad, Why Are They So Common? Center on Global Energy Policy,
Columbia University, New York, NY, 2015
The Society for Benefit-Cost Analysis Annual Conference (two presentations), Washington, DC,
2015
The Future of Children: Climate Change Workshop, Princeton University and the Brookings
Institution, Princeton, NJ, 2015
Academic Seminar, Yale University, 2014
Academic Seminar, Carnegie Mellon University, 2014
Regulatory Policy Initiative Workshop, Resources for the Future, Washington, DC, 2014
Enhancing the Transatlantic Trade and Investment Partnership: Reducing Regulatory Barriers
Conference, George Washington University Regulatory Studies Center, Washington, DC,
2014
Workshop on Second Generation Biofuels, Harvard Kennedy School, Cambridge, MA, 2014
BP/Harvard Kennedy School Symposium on Energy Policy, Cambridge, MA, 2014
PERC Workshop on Environmental Quality and Human Health, Bozeman, MT, 2014
World Congress of Environmental and Resource Economists, Istanbul, Turkey, 2014
Social Cost of Carbon Workshop, Duke University, Durham, NC, 2014
Spring 2014 Workshop, Center for Energy and Environmental Policy Research, MIT, Cambridge,
MA, 2014
AERE/American Economic Association, Annual Meeting, Philadelphia, PA, 2014
Academic Seminar, Harvard University, 2013
Academic Seminar, Harvard Kennedy School, 2013
Workshop on Building Block Strategies for Global Climate Action, NYU Law School, New York,
2013
BP/Harvard Kennedy School Symposium on Energy, Security, and Climate Policy, Cambridge,
MA, 2013

IZA Workshop on Labor Market Effects of Environmental Policies, Institute for the Study of Labor, Bonn, Germany, 2013

Health and Welfare Implications of Taxation and Subsidy Policies to Alter Non-Communicable Disease Risks, Commission on Investing in Health/Harvard Global Health Institute/Disease Control Priorities Project Workshop, Cambridge, MA, 2013

Climate Change Impacts and Integrated Assessment, Energy Modeling Forum Summer Workshop, Snowmass, CO (two presentations), 2013

AERE Summer Conference Sponsored Sessions, Banff, Canada, 2013

Mercator Institute and Harvard Project on Climate Agreements Durban Platform Workshop, Berlin, Germany, 2013

AERE/American Economic Association, Annual Meeting, San Diego, CA (two talks), 2013

Academic Seminar, Harvard Kennedy School, 2012

Academic Seminar, Resources for the Future, 2012

Power Generation and the Environment: Choices and Economic Trade-Offs, University of Wyoming, Jackson Hole, WY, 2012

BP/Harvard Kennedy School Symposium on Energy, Security, and Climate Policy, Cambridge, MA, 2012

Academic Seminar, Massachusetts Institute of Technology, 2011

Academic Seminar, Columbia University, 2011

Academic Seminar, Harvard Kennedy School, 2011

Plenary Address, International Energy Workshop hosted by the Stanford Energy Modeling Forum, Palo Alto, CA, 2011

The Future of Climate Negotiations, Policy Session sponsored by FEEM and Tilburg Sustainability Center, European Association of Environmental and Resource Economists Conference, Rome, Italy, 2011

BP/Harvard Kennedy School Symposium on Energy, Security, and Climate Policy, Cambridge, MA, 2011

Keynote Address, Rigs, Risk, and Responsibility: Conference on the BP Oil Spill, Vanderbilt Law School, Nashville, TN, 2011

Keynote Address, Association of Environmental and Resource Economists (AERE) Summer Workshop, Washington, DC, 2009

Academic Seminar, Harvard Kennedy School, 2008

Academic Seminar, Duke University, 2008

Academic Seminar, Yale University, 2008

Academic Seminar, Tsinghua University, 2008

Academic Seminar, Brookings Institution, 2008

Academic Seminar, International Monetary Fund, 2008

Academic Seminar, The World Bank, 2008

PERC Lone Mountain Forum on Markets for Land and Pollution: Implications for Environmental Justice, Big Sky, Montana, 2008

3rd Atlantic Workshop on Energy and Environmental Economics, A Toxa, Spain, 2008

American Economic Association, Annual Meeting, New Orleans, LA, 2008

Academic Seminar, Yale University, 2007

Academic Seminar, University of Minnesota, 2007

Academic Seminar, Triangle Resource and Environmental Economics Seminar (Duke/NC State University/Research Triangle Institute), 2007

Academic Seminar, University of California – Berkeley, 2007

Academic Seminar, Vanderbilt University, 2007

Academic Seminar, University of Central Florida, 2007
Academic Seminar, Carnegie Mellon University, 2007
PREISM Workshop, Economic Research Service, Washington, DC, 2007
Plenary Address, International Energy Workshop hosted by the Stanford Energy Modeling Forum, Palo Alto, CA, 2007
Global Climate Change Research Seminar, Electric Power Research Institute, Washington, DC, 2007
Forum on Global Climate Strategies Beyond 2012: The Route Ahead, Florence School of Regulation, Madrid, Spain, 2007
Climate Policy Network, Fifth Meeting, ZEW, Mannheim, Germany (two presentations), 2007
Great Decisions Lecture Series, University of North Carolina–Wilmington, Wilmington, NC, 2007
Academic Seminar, University of Kentucky, 2006
Ecological Society of America, Annual Meeting, Memphis, TN, 2006
Third World Congress of Environmental and Resource Economists, Kyoto, Japan (two presentations), 2006
Plenary Address, International Energy Workshop, hosted by the University of Cape Town Energy Research Centre, Cape Town, South Africa (two presentations), 2006
Economics of Population Health Conference, American Society of Health Economists, Madison, WI, 2006
Morbidity and Mortality: How Do We Value the Risk of Illness and Death? U.S. Environmental Protection Agency, Washington, DC, 2006
Academic Seminar, University of Maryland, 2005
Academic Seminar, Paul H. Nitze School of Advanced International Studies, 2005
Academic Seminar, Johns Hopkins University, 2005
Academic Seminar, University of California – Santa Barbara, 2005
Academic Seminar, University of California – Davis, 2005
Academic Seminar, Columbia University, 2005
Academic Seminar, Rice University, 2005
Academic Seminar, Resources for the Future, 2005
Academic Seminar, Rand Corporation, 2005
Academic Seminar, Public Policy Institute of California, 2005
Colloquium on Socioeconomic Drivers of Greenhouse Gas Emissions, U.S. Environmental Protection Agency and World Resources Institute, Washington, DC, 2005
Heartland Environmental and Resource Economics Workshop, Iowa State University, Ames, IA, 2005
Academic Seminar, Stanford University, 2004
Academic Seminar, University of Texas at Austin, 2004
Academic Seminar, Harvard University, 2004
International Energy Workshop, hosted by the International Energy Agency, Paris, France, 2004
Association of Environmental and Resource Economists (AERE) Summer Workshop, Estes Park, CO, 2004
AERE/American Economic Association Meeting, San Diego, CA (two talks), 2004
Roundtable Discussion on Benefit-Cost Analysis, Harvard Law School and Harvard Center for Risk Analysis, Cambridge, MA, 2004

Academic Conference Paper Discussant:

American Economic Association Annual Meeting, San Diego, CA, 2020

AERE Summer Conference, Lake Tahoe, NV, 2019
 Northeast Workshop on Energy Policy and Environmental Economics, Columbia University, New York, 2018
 The Society for Benefit-Cost Analysis Annual Conference, Washington, DC, 2018
 Governing Climate Change: Polycentricity in Action? Workshop, hosted by Inogov and the Netherlands Open University, Heerlen, The Netherlands, 2017
 American Economic Association, Annual Meeting, Boston, MA, 2015
 National Bureau of Economic Research Summer Institute, Urban Economics Workshop, Cambridge, MA, 2014
 National Bureau of Economic Research Summer Institute, Environmental and Energy Economics Workshop, Cambridge, MA, 2014
 World Congress of Environmental and Resource Economists, Istanbul, Turkey, 2014
 Human Adaptation to Climate Change, Lone Mountain Forum, Bozeman, MT, 2011
 Climate Change, Trade, and Competitiveness Conference, Brookings Institution, Washington, DC, 2008
 American Economic Association, Annual Meeting, New Orleans, LA, 2008
 AERE/American Economic Association, Annual Meeting, New Orleans, LA 2008
 National Bureau of Economic Research Summer Institute, Environment and Public Policy Session, Cambridge, MA, 2007
 POWER Conference on Electricity Industry Restructuring, UC-Berkeley, Berkeley, CA, 2007
Strategic Options for Bush Administration Climate Policy Book Forum, American Enterprise Institute, Washington, DC 2006
 Invasive Species Management: 2006 PREISM Workshop, USDA Economic Research Service, Washington, DC, 2006
 Economics of Climate Change: Understanding Trans-Atlantic Differences Workshop, Resources for the Future and the British Embassy, Washington, DC, 2006
 Climate Policy Network Workshop, Cambridge, MA, 2006
 Workshop on Voluntary Programs, Resources for the Future, Washington, DC, 2005

Conference, Workshop, and Invited Policy Presentations:

Energy Policy Institute, National Governors Association, Washington DC / Zoom, 2020
 Climate Policy and Stimulus Initiatives, Pricing Carbon Dialogue, Washington DC / Zoom, 2020
 Energy, Stimulus, and Post-Covid Recovery Measures, International Energy Agency Webinar, Paris / Zoom, 2020
 Lessons from the 2009 Recovery Act Clean Energy Package, Briefing for Members, U.S. House of Representatives Select Committee on the Climate Crisis, Washington DC / Zoom, 2020
 Addressing Competitiveness under Federal Climate Action Workshop, C2ES, Washington DC / Zoom, 2020
 U.S.-China Economics and Climate Expert Dialogue, Energy Foundation China, Beijing / Zoom, 2020
 Global Climate Change Policy Side Event, UN Framework Convention on Climate Change Conference of the Parties, Madrid, Spain, 2019
 Realizing the Potential of Article 6 Side Event, UN Framework Convention on Climate Change Conference of the Parties, Madrid, Spain, 2019
 International Coordination in Efforts of Climate Change Response Measures Side Event, UN Framework Convention on Climate Change Conference of the Parties, Madrid, Spain, 2019

Reducing Greenhouse Gas Emissions through Carbon Pricing Side Event, UN Framework Convention on Climate Change Conference of the Parties, Madrid, Spain, 2019

How to Place a Price on Carbon, Aspen Ideas Festival, The Aspen Institute, Aspen, CO, 2019

Policy Interactions with National Carbon Pricing, Listening Sessions on Next Generation of Climate Policy, Partnership for Responsible Growth/National Wildlife Federation/Pew Charitable Trusts, Washington, DC, 2018

Energy in America: The Changing Role of Energy in the U.S. Economy Workshop, Center for Strategic and International Studies, Washington, DC, 2018

Are the Promises of the Paris Climate Agreement Perishing? A Spotlight on the EU, US, and China, Center for European Studies, Harvard University, Cambridge, MA, 2018

Implementing the Paris Agreement, American Enterprise Institute, Washington, DC, 2018

Achieving Significant Emissions Reductions with Carbon Pricing Policy, Listening Sessions on Next Generation of Climate Policy, Partnership for Responsible Growth/National Wildlife Federation/Pew Charitable Trusts, Washington, DC, 2018

Dialogue on Next Generation of Climate Policy, Partnership for Responsible Growth/National Wildlife Federation/Pew Charitable Trusts, Washington, DC, 2018

Can Regulation Learn from Disaster? Lessons from Oil Spills, Nuclear Accidents, and Financial Crises, Rethinking Regulation Program at the Kenan Institute for Ethics, Duke University, Washington, DC, 2018

Carbon Pricing Policy Design, Side Event, UN Framework Convention on Climate Change Conference of the Parties, Bonn, Germany, 2017

New Developments in Regulatory Benefit-Cost Analysis Symposium, Society for Benefit-Cost Analysis/Administrative Conference of the United States, George Washington University, Washington, DC, 2017

20th Energy and Climate Research Seminar, Electric Power Research Institute, Washington, DC, 2017

Federal Energy Related Tax Policy and Its Effects on Markets, Prices, and Consumers, Hearing before the Energy Subcommittee of the Energy and Commerce Committee, U.S. House of Representatives, Washington, DC, 2017

Is There Deal Space for Carbon Pricing in 2017?, The Hoover Institution, Washington, DC, 2017

Long-term Carbon Pricing Policy: The Great Swap, Energy and Climate: The Art of the Deal? Event, Progressive Policy Institute, Washington, DC, 2016

The Paris Agreement's Transparency Framework: A Building Block for Enhanced Mitigation, Side Event, UN Framework Convention on Climate Change Conference of the Parties, Marrakech, Morocco, 2016

Transparency, Policy Surveillance, and the Comparison of Mitigation Effort, Side Event, UN Framework Convention on Climate Change Conference of the Parties, Marrakech, Morocco, 2016

Urban Policies to Implement and Finance Nationally Determined Contributions under the Paris Agreement, Side Event, UN Framework Convention on Climate Change Conference of the Parties, Marrakech, Morocco, 2016

Online Debate: COP21 – Results and Perspectives, Florence School of Regulation/European Union Institute, 2015

Merits and Challenges of Declining Discount Rates, Workshop on Discounting the Future, Council of Economic Advisers, Executive Office of the President, Washington, DC, 2015

Climate Change Series: Next Steps for Intended Nationally Determined Contributions (INDCs), Center for Strategic and International Studies, Washington, DC, 2015

Retrospective Review Workshop, Administrative Conference of the United States, Washington, DC, 2015

Fuel Subsidy Reform Workshop, Council on Foreign Relations, Washington, DC, 2015

The U.S.-China Dialogue on the Global Economic Order, Center for Strategic and International Studies and Shanghai Institutes for International Studies, Washington, DC, 2015

Looking Ahead toward Paris: International Perspectives on National Commitments (two talks), MISTRA Indigo/Embassy of Sweden/Resources for the Future, Washington, DC, 2015

Workshop on the Analysis and Management of Energy and Environmental Policy, Harvard Kennedy School and the Enel Foundation, Cambridge, MA, 2015

Effective Frameworks and Measures for Climate Change – Way to COP21, ALPS International Symposium, Research Institute of Innovative Technology for the Earth and Ministry of Economy, Trade, and Industry, Tokyo, Japan, 2015

Paris 2015: The Process and Substance of the Negotiations, Center for Strategic and International Studies, Washington, DC, 2015

Toward a Global Climate Agreement: Comparing Countries' Levels of Effort, Resources for the Future, Washington, DC, 2015

New Methods for Comparing Mitigation Effort, Side Event, UN Framework Convention on Climate Change Conference of the Parties, Lima, Peru, 2014

Retrospective Review of Agency Rules, 61st Plenary Session, Administrative Conference of the United States, Washington, DC, 2014

Evolving Approaches for Valuing the Benefits of Consumer Protection Regulations Workshop, Consumer Financial Protection Bureau, Washington, DC, 2014

Retrospective Review of Agency Rules, Meeting of the Council of Independent Regulatory Agencies, hosted by the Administrative Conference of the United States, Washington, DC, 2014

Energy Policy: Looking Back, Looking Forward, Center for Strategic International Studies, Washington, DC, 2014

Accelerating the Transition to a Clean Energy Economy, hosted by Environmental Entrepreneurs, Boston, MA, 2014

Pricing Carbon, Babson College, Wellesley, MA, 2013

Energy: From the Last to the Next 150 Years, Sesquicentennial Symposium, Boston College, Boston, 2013

Expanded Natural Gas Production: Impacts on New Pathways for Climate Change Mitigation, Bipartisan Policy Center Series on the New Geopolitics of Petroleum and Natural Gas, Washington, DC, 2013

The Green Agenda: Electricity and the Environment, Harvard Electricity Policy Group 72nd Plenary Session, Cambridge, 2013

Understanding Regulation's Impact on Employment, Workshop Hosted by the Penn Program on Regulation, Washington, DC, 2013

Briefing on the Results of the New Stanford Energy Modeling Forum Studies on U.S. and International Climate Policies, Architectures, and Technological Change, Washington, DC, 2013

Keynote Address, Innovation in Electricity: Challenges and Opportunities, HBS Business and Environment Conference, Cambridge, MA, 2013

15 Ways to Rethink the Federal Budget: Addressing Entitlements, Taxation, and Revenues, The Hamilton Project, The Brookings Institution, Washington, DC, 2013

Comprehensive Tax Reform and Climate Policy, Resources for the Future, Washington, DC, 2013

The Economics of Carbon Taxes Conference, American Enterprise Institute, Washington, DC, 2012

Presidential Energy Debate (Obama Campaign Surrogate), MIT Energy Initiative, Cambridge, 2012

Track 1.5 Meeting of U.S. and Chinese Experts on International Climate Policy, Hosted by the Department of State and the National Development and Reform Commission, Chicago, 2012

Harvard Thinks Green 2, Harvard University, Cambridge, 2012

Keynote Address, The Canada We Want in 2020 – Squaring the Carbon Circle, Canada2020, Ottawa, Canada, 2012

Evaluating Progress on the Climate Front, XXXIII MIT Global Change Forum, Arlington, VA, 2012

Institute of Politics 20th Bipartisan Program for Newly Elected Members of Congress, Cambridge, MA, 2012

Fiscal Reform and Climate Protection: Considering a U.S. Carbon Tax, Peterson Institute for International Economics and Resources for the Future, Washington, DC, 2011

Energy in a Carbon-Constrained World, Expogestion, Bogota, Colombia, 2011

A Federal Clean Energy Standard: Understanding Important Policy Elements, Resources for the Future, Washington, DC, 2011

Alternative Approaches to Climate Change, Aspen Energy Policy Forum, Aspen Institute, Aspen, CO, 2011

A Cleaner Way to Power? Briefing hosted by the Subcommittee on Energy and Power, Energy and Commerce Committee, U.S. House of Representatives, Washington, DC, 2011

U.S. and International Climate Change Policy Outlook, EPRI Global Climate Change Research Seminar, Washington, DC, 2011

U.S. Climate Change Policy Outlook, GTSP Annual Meeting: The Role of Technology in Addressing Climate Change, Washington, DC, 2011

State-Level Climate Policies: Lessons for National Efforts, Georgetown University Conference on Environmental Federalism: Current Issues and opportunities, Washington, DC, 2011

Promoting Clean Energy in the American Power Sector, America's Energy Future: New Solutions to Fuel Economic Growth and Prosperity, The Hamilton Project, Washington, DC, 2011

Confronting Domestic and Global Climate Strategies, XXXI MIT Global Change Forum, Brussels, Belgium, 2010

Keynote Address, Estimating Employment Impacts of Energy and Environmental Policies and Programs: Lessons Learned and Future Directions, Nicholas Institute for Environmental Policy Solutions Workshop, Washington, DC, 2010

Keynote Address, The Unconventional Gas Revolution – Policy, Strategic, and Market Implications, Washington Energy Policy Conference, National Capital Area Chapter, U.S. Association for Energy Economics, Washington, DC, 2010

Keynote Address, U.S. Climate Policy and Its Role in Financing REDD+. Forest Carbon Finance Summit 2010, Harvard Law School/Nicholas Institute/World Wildlife Fund, Washington, DC, 2010

Keynote Address, Board of Directors Dinner, Resources for the Future, Washington, DC, 2009

The Right Climate for Agreement: Designing the Post-2012 World, Bruegel, Brussels, Belgium, 2008

An Environmental Agenda for the Next Administration, Environmental Law and Policy Program Conference, University of Michigan, Ann Arbor, MI, 2008

From Kyoto to Copenhagen: How Can the U.S. Lead on Climate Change, Progressive Policy Institute, Washington, DC, 2008

Potential for a Global Carbon Market, Carbon Markets USA Conference, Washington, DC, 2008

The Climate Dialogue hosted by Prime Minister Rasmussen, Copenhagen, Denmark, 2008

Business Environmental Leaders Council Annual Meeting, Pew Center on Global Climate Change, Washington, DC, 2008

ZEW Wirtschaftsforum, Mannheim, Germany, 2008

Addressing Climate Change: A Discussion of Policy Options Workshop, Georgetown Center for Business and Public Policy and the U.S. Climate Task Force, Washington, DC, 2008

Architectures for Agreement: Addressing Global Climate Change in the Post-Kyoto World, Briefing for United Nations Secretary-General Ban Ki-moon, United Nations, New York, NY, 2008

Post-2012 International Climate Policy Architecture for Global Climate Change Workshop, Fondazione Eni Enrico Mattei, Venice, Italy, 2008

Climate Change, Growth, and Poverty Session, PREM Conference: Inclusive and Sustainable Growth, The World Bank, Washington, DC, 2008

Architectures for Agreement: Issues and Options for Post-2012 International Climate Policy, The Future of Climate Change: A Policy Preview Workshop hosted by Resources for the Future, San Francisco, CA, 2008

International Climate Policy Seminar, Chinese Academy of Social Sciences, Beijing, China, 2008

International Climate Policy Seminar, Energy Research Institute, National Development and Reform Commission, Beijing, China, 2008

International Climate Policy Seminar, Foreign Correspondents' Club of Japan, Tokyo, Japan, 2008

International Climate Policy Seminar, 21st Century Public Policy Institute/Keidenran Workshop, Tokyo, Japan, 2008

Value of a Statistical Life Workshop, Department of Homeland Security, Washington, DC, 2008

Global Roundtable on Climate Change, Earth Institute, Columbia University, New York, 2008

What Price Energy Transformation: The Economics of Energy and Climate Change Seminar, hosted by the German Marshall Fund and EcoLogic, Washington, DC, 2008

Domestic Climate Change Policy, Energy Policy Standing Committee, U.S. Conference of Mayors Winter Meeting, Washington, DC, 2008

A Global Response to Climate Change, Presentation and Panel Discussion hosted by the Asia Society and the UN Foundation, New York, 2008

Official Side Event, UN Framework Convention on Climate Change Conference of the Parties, Nusa Dua, Bali, Indonesia, 2007

Climate Change Policy and Employment, Rockefeller Foundation Policy Impact Forum, presentations and briefings of representatives of six presidential campaigns, 2007

The Road From Bali: Strategies for Post-Kyoto Global Climate Policy, Staff Briefing on UN Climate Change Conference in Bali hosted by the Select Committee on Energy Independence and Global Warming, Washington, DC, 2007

Rethinking Climate Policy Workshop, AEI-Brookings Joint Center on Regulatory Studies, Washington, DC, 2007

Strategies for Post-2012 Global Climate Policy, Roundtable Conversation at The Centre, Brussels, Belgium, 2007

Federal Climate Policy – Design Principles and Remaining Needs Workshop, American Meteorological Society, Washington, DC, 2007

Carbon Tax vs. Cap-and-Trade, Energy Tax Workshop, McDermott, Will, and Emery LLP, Washington, DC, 2007

The Road from Bali to Copenhagen, Brookings Institution Energy Security Roundtable, Washington, DC, 2007

New Directions in Regulatory Policy, Mossavar-Rahmani Center for Business and Government, John F. Kennedy School of Government, Cambridge, MA, 2007

Kyoto at 10: What's Next for International Climate Change Policy, Breakfast Briefing for Business Community hosted by Harvard University and Resources for the Future, New York, NY 2007

Strategies for Post-Kyoto Global Climate Policy Briefing, Resources for the Future, Washington, DC 2007

Laboratory Energy R&D Working Group Meeting, Department of Energy, Washington, DC, 2007

Economics of Climate Change Briefing for Democratic Budget Group, U.S. House of Representatives, 2007

U.S. Climate Policy Forum, Resources for the Future, Washington, DC, 2007

Council of Industrial Boiler Owners Environmental Committee Meeting, Washington, DC, 2007

The Stern Review and the Economic Analysis of Climate Change, Resources for the Future, Washington, DC, 2007

Global Energy and Climate Change Policy and Research Symposium, UCLA Institute of Transportation Studies and UCLA Public Policy School, Lake Arrowhead, CA, 2006

Global Dialogue on Natural Resources, Center for Strategic and International Studies and The Dialogue–UAE, Washington, DC, 2006

Taking Measure of U.S. Energy Policy: A Review of the Energy Policy Act of 2005, Resources for the Future, Washington, DC, 2005

NCEP Climate Workshop Series: Design-Issues in Market-Based GHG Reduction Strategies, National Commission on Energy Policy, Washington, DC, 2005

Leaders' Summit on Post-Kyoto Architecture: Toward an L20?, Council on Foreign Relations, New York, NY, 2004

Beyond Kyoto: Advancing the International Effort Against Climate Change Workshop, Pew Center on Global Climate Change, Cocoyoc, Mexico, 2003

Conference and Workshop Panelist:

Re-articulating Development Strategies: COVID19, Human Development, and the Environment, Center for International Development and the UN Development Programme, New York / Zoom, 2020

Article 6 Economic Analysis Workshop, International Emissions Trading Association and University of Maryland, Washington, DC, 2019

Energy in America: Economic and Social Opportunity in the United States, Center for Strategic and International Studies, Washington, DC, 2019

Energy Research Insights for Decisionmaking Conference, Resources for the Future and the Alfred P. Sloan Foundation, Washington, DC, 2018

Presidential Panel on Climate Change, Harvard University, Cambridge, MA 2015

MIT Energy Conference, Cambridge, MA, 2013

American Economic Association, Annual Meeting, Chicago, IL, 2012

Innovative International REDD+ Partnerships Panel, High-Level Forest Climate Side Event, Avoided Deforestation Partners, COP-16, Cancun, Mexico, 2010

Strategies for Low-Carbon Growth: Challenges and Opportunities in International Finance, Resources for the Future Side Event, COP-16, Cancun, Mexico, 2010

The Road to and from Cancun, XXXI MIT Global Change Forum, Brussels, Belgium, 2010

White, Blue, and Green Jobs Report Session, *National Journal* Workforce of the Future Conference, Washington, DC, 2010

Design and Implementation of U.S. Climate Policy Conference, National Bureau of Economic Research, Washington, DC, 2010
U.S. Climate Change Policy: What's Next After Copenhagen? 2010 Energy Conference: Short-Term Stresses, Long-Term Change. U.S. Energy Information Administration Annual Conference, Washington, DC, 2010
Environmental and Energy Economics Workshop, National Bureau of Economic Research Summer Institute, Cambridge, MA, 2009
Greenhouse Gas Emissions: What's Next? 2009 Energy Conference: A New Climate for Energy? U.S. Energy Information Administration Annual Conference, Washington, DC, 2009
Containing Climate Change: Beyond Kyoto, Milken Institute Global Conference, Beverly Hills, CA, 2008
Science & Society: Grand Challenges – Climate Change, AAAS Symposium, Washington, DC, 2007

Seminar Organizer/Host and Conference Session Moderator/Facilitator/Host:

Regulatory Policy Seminar, Harvard Kennedy School, 2011-present
Faculty Lunch Seminar, Harvard Kennedy School, 2016
Academic Seminar, Resources for the Future, 2006-2008
Carbon Tax Policy, American Economic Association Annual Meeting, San Diego, CA, 2020
Lessons from the Clean Air Act: Building Durability and Adaptability into U.S. Climate and Energy Policy, American Academy of Arts & Sciences, Washington, DC, 2019
BP/HKS/Tufts Fletcher School Symposium on Energy Policy, Cambridge, MA, 2018
Climate-Related Disclosure: Making it Work for Companies and Investors, Harvard Law School, Cambridge, MA, 2018
AERE/American Economic Association, Annual Meeting, Philadelphia, 2018
Nudging Toward a Cleaner Future, Harvard Kennedy School, Cambridge, MA, 2016
National Tax Association Annual Conference, Boston, MA, 2015
The Future of Low-Carbon Road Transport: What Role for Second-Generation Biofuels? Harvard Kennedy School, Dearborn, MI, 2015
Climate Shock, a Book Event Conversation with Gernot Wagner, Columbia University Center for Global Energy Policy, New York, NY, 2015
The Society for Benefit-Cost Analysis Annual Conference, Washington, DC, 2015
AERE/American Economic Association, Annual Meeting, Philadelphia, 2014
Plenary Address by Commissioner Connie Hedegaard, European Conference at Harvard University, Boston, MA, 2013
MIT Energy Conference, Boston, MA, 2012
GreenGov Symposium, Council on Environmental Quality, Washington, DC, 2010
International Energy Workshop hosted by the International Energy Agency, Paris, France, 2008
Post-2012 International Climate Policy Architecture for Global Climate Change Workshop, Fondazione Eni Enrico Mattei, Venice, Italy, 2008
International Energy Workshop hosted by the Stanford Energy Modeling Forum, Palo Alto, CA, 2007
Third World Congress of Environmental and Resource Economists, Kyoto, Japan, 2006
International Energy Workshop hosted by the University of Cape Town Energy Research Centre, Cape Town, South Africa, 2006

Testimonies:

[Federal Energy Related Tax Policy and Its Effects on Markets, Prices, and Consumers](#), Hearing before the Energy Subcommittee of the Energy and Commerce Committee, U.S. House of Representatives, Washington, DC, 2017

[China's Energy Policies and Environmental Impacts](#), Hearing before the U.S.-China Economic and Security Review Commission, Washington, DC, 2008

Economic Implications of Climate Policy, North Carolina Legislative Commission on Global Climate Change, Raleigh, NC, 2006

Commencement Addresses:

[Nicholas School of the Environment](#), Duke University, Durham, NC, 2010

The Lexington School, Lexington, KY, 2010

Media – Interviews:

[U.S. Nixes G20 Climate Finance Declaration](#), *Living on Earth*, Public Radio International, 2017 (radio)

[Breaking Down Clinton's Climate Approach](#), *Living on Earth*, Public Radio International, 2016 (radio)

[Renewable Energy Boosted in Federal Budget Compromise](#), *Living on Earth*, Public Radio International, 2016 (radio)

[Energy Policy in the New Year](#), *Living on Earth*, Public Radio International, 2015 (radio)

[Why the Job Market Actually Improved after the BP Oil Spill](#), *Washington Post*, 2014 (transcript of interview; press)

[Fossil Fuel Subsidies under Fire](#), *Living on Earth*, Public Radio International, 2013 (radio)

[Saving Money with Environmental Regulation](#), *Living on Earth*, Public Radio International, 2013 (radio)

U.S. Fossil Fuel Subsidies, *Commodities*, Business News Network (Canada), 2013 (TV)

[The Economics of a Carbon Tax](#), *Living on Earth*, Public Radio International, 2012 (radio)

Energy and Climate Policy, *Power and Politics*, CBC (Canada), 2012 (TV)

On the U.S. Energy Debate, 92nd Street Y (and [Huffington Post](#)), 2012 (TV)

[America 2021: What Next on Climate? Democracy: A Journal of Ideas](#) 21: 40-58, 2011 (transcript of roundtable conversation; press)

[Q&A Joe Aldy: Climate Legislation Must Be Kept Simple](#), *Nature* 470: 451, 2011 (press)

Future of U.S. Climate Policy, *BBC World News*, BBC Radio, 2008 (radio)

Climate Policy, *Dialogue*, CCTV-9 (China state-run English language TV network), 2008 (TV)

Media – Op-Eds:

[Subsidies in the Wrong Places Skew Renewable Energy's Power](#), *New York Times* Room for Debate, May 3, 2016

[Roundtable: How Should UN Climate Talks "Ratchet" Up Emissions Cuts?](#), *ChinaDialogue.net*, December 12, 2015

[Commentary: 'Trust but Verify' Should Be a Motto of Paris Climate Talks](#), *The Christian Science Monitor*, November 2015

[As the U.S. Heads to Climate Talks, It Seeks a Plan to "Trust but Verify"](#), *The Conversation*, November 9, 2015

["Need Transparency and Review Mechanisms,"](#) The Debate: How Can the U.S. Lead in Paris to Achieve a Climate Agreement We Can Live With? *The Environmental Forum*, Nov/Dec 2015

[Financial Regulation Sans Analysis](#), *Politico* Op-Ed, June 20, 2012, with Art Fraas and Randall Lutter

[Forging a Climate Agreement that Works](#), *Washington Post* PostGlobal Op-Ed, December 17, 2007, with Robert N. Stavins

Media – Quotes and Research References in Press:

Domestic Climate Policy

[Economists Pitch Hybrid Carbon Tax, Cap Plan to Win Bipartisan Appeal](#), *Inside EPA*, March 11, 2019

[Analysts Raise Questions about Pascrell's Request for 232 Probe into Carbon Emission Imports](#), *Inside U.S. Trade*, March 11, 2019

[How to Think about the Costs of Climate Change](#), *New York Times*, January 17, 2019

[Why Red and Blue States Divide Over Green Policy](#), *CNN*, September 4, 2018

[There's One Reason Not to Completely Freak Out about Trump's Effort to Reverse Obama-era Climate Change Policies](#), *Business Insider*, October 26, 2017

[Is Trump's Climate Change Agenda Politically Sustainable](#), *The Atlantic*, June 1, 2017

[Why Democrats Should Work with Trump](#), *New York Times*, March 30, 2017

[Despite Long Odds, Experts Game Carbon-Pricing Scenarios](#), *ClimateWire*, March 30, 2017

[The Hillary Clinton Environmental Scorecard](#), *Outside Online*, October 17, 2016

[7 Questions about the "Three Amigos" Energy Deal](#), *ClimateWire*, June 30, 2016

[Biggest Methane Leak in U.S. History at Old California Well](#), *ClimateWire*, February 26, 2016

[Obama Looks to the Future on Climate](#), *ClimateWire*, January 2016

Why Can't Republicans Support a Carbon Tax? *The New Yorker*, November 2015

[Measures of Progress in Paris Talks Can't Be Pinned to Numbers](#), *ClimateWire*, September, 2015

["With Certainty" Cap-and-Trade Would Wreck the Economy, Rubio Says](#), *Tampa Bay Times* *PolitiFact.com*, April 23, 2015

[Climate Change Solutions](#), *Harvard Magazine*, April 15, 2015

[Climate Change Panel Addresses Divestment](#), *Harvard Crimson*, April 14, 2015

[Sizing Up Climate Change](#), *Harvard Gazette*, April 13, 2015

[Target: Climate Change](#), *Harvard Gazette*, March 24, 2015

[Former Obama Advisers Seek to Open and Globalize the Measures for the Social Costs of Carbon](#), *ClimateWire*, December 8, 2014

[Fighting for the Future](#), *Environment@Harvard*, Fall 2013

[Caring About Climate -- Close to Home](#), *Environment@Harvard*, Fall 2013

[Role of Gas Will Be Limited in Climate Change Battle, Experts Note](#), *Oil and Gas Journal*, October 9, 2013

[What Now?](#) *Nature Climate Change*, April 25, 2013

[Economists Slice, Dice Carbon Tax at Forum](#), *Greenwire*, February 28, 2013

[What Four More Years of the Obama Administration Means for Environmental Policy](#), *Audubon Magazine*, January-February 2013

[Bipartisan Steps Urged on Climate Change Policy](#), *Boston Globe*, November 19, 2012

A Carbon-Tax Deal? Watch EPA, *National Journal Daily*, November 19, 2012

[Treasury Official Says Obama Has No Plan for Carbon Tax Support without Republican Support](#), *Bloomberg BNA Daily Environment Report*, November 14, 2012

[Bloomberg Endorses Obama Over Climate Change. Does Obama Deserve It?](#) *Washington Post* blog, November 1, 2012

[Emergency Planning: From Harvard Specialists, Green Thinking with a Sense of Urgency](#), *Harvard Gazette*, September 19, 2012

[What Explains the Carbon Gap Between Rich and Poor States?](#) *Greenwire*, January 23, 2012

[Americans Would Pay More for Clean Energy. Would Congress?](#), *Washington Post Wonkblog*, May 14, 2012

[Willing to Pay \(a Little\) More for Clean Energy](#), *New York Times Green Blog*, May 14, 2012

[Study: Public Willing to Pay for More Green Energy](#), *The Hill E2 Wire*, May 14, 2012

[You've Got to Start Somewhere: A Climate Prescription](#), *New York Times Green Blog*, May 18, 2011

[New "Clean Energy Standard" Plan from Former White House Wonk](#), *Science*, May 24, 2011

"Cap and Trade" Impact on U.S. Competitiveness Modest: Study, *Agence France-Presse (AFP)*, May 6, 2009

[Candidates Call Climate Change an "Urgent" Priority](#), *National Public Radio*, August 13, 2008

What Obama Electricity Tax? *Washington Post*, July 30, 2008

Climate Politics: Beyond Bush, *Nature*, November 14, 2007

International Climate Change Policy

[Towards a Three-Pronged Approach to Climate Policy](#), *Economic Principals*, April 19, 2020

[Carbon Tax a Conscientious Approach for a Sustainable Future](#), *Channel NewsAsia*, March 1, 2018

[Trump is Quietly Surrendering to China on Climate Change](#), *Vice*, November 7, 2017

[Paris Agreement: Tillerson Lost Big. Will He Have Clout under Trump?](#) *ClimateWire*, July 5, 2017

[A Blessing to Slow Climate Change](#), *Harvard Gazette*, June 18, 2015

[Getting a Fair Deal](#), *Nature Climate Change*, June 2015

[The New Math -- in the next months, nations will begin comparing their targets for Paris talks](#), *ClimateWire*, February 5, 2015

[U.S. Climate Diplomats Get a New Chance to Find Common Ground with Allies](#), *ClimateWire*, November 8, 2012

[U.S., China Climate Standoff Returns](#), *Reuters*, September 24, 2012

[Vital Statistics](#), *Nature Climate Change*, October 27, 2011

[Bush's Much-Maligned Climate Talks Could Yet Help Global-Warming Treaty](#), *Christian Science Monitor*, January 30, 2008

[Bumpy Ride Ahead for Bali Road Map](#), *Asia Times Online*, December 18, 2007

[Bush Clings to Anti-Kyoto Stance Ahead of Climate Talks](#), *Agence France-Presse (AFP)*, November 30, 2007

Energy Policy

[Texas City Leaders Face Wrath of Residents over Green Energy Deal](#), *U.S. News and World Report*, March 28, 2019

[Why Georgetown's Green Energy Gamble Didn't Pay Off](#), *Austin American-Statesman*, February 23, 2019

[The Green New Deal is Fueling a Wild Democratic Policy Primary](#), *Axios*, February 20, 2019

[Fossil Fuel Subsidies Head Back Up after Years of Decline](#), *Axios*, October 31, 2018
[Trump Casts a Long Shadow on the Solar Industry](#), *Boston Globe*, December 5, 2017
[The Real Cost of Energy](#), *Nature* 551: S145-S147, November 30, 2017
[IRS is an Energy Agency, and Many Say That's Bad](#), *Climatewire*, May 5, 2017
[Renewable Energy Tax Cut Rewrite May be Uphill Battle for GOP](#), *Washington Times*, April 16, 2017
[Exxon's Tax Wars Entangle Tillerson in Potential Conflicts](#), *Energywire*, January 10, 2017
[The Burning Debate Over Fossil Fuel Subsidies](#), *The Washington Diplomat*, September 2016
[India's Energy Subsidy Slowdown](#), *Nature Energy*, May 2016
[After Oil Spill, Local Economy Defies Doomsday Forecasts](#), *Houma (LA) Courier*, April 19, 2015
[Obama Claims U.S. Has Doubled Production of "Clean Energy,"](#) *Tampa Bay Times Politifact.com*, January 20, 2015
[How Washington Bungled the Solyndra Story](#), *National Journal*, November 17, 2014
U.S. Expects \$5 Billion from Program that Funded Solyndra, *BusinessWeek*, November 12, 2014
[Federal Clean-Energy Loan Guarantees Go Begging: Energy Department Hopes to Drum Up Interest, but Companies Are Wary](#), *The Wall Street Journal*, September 2014
[The Fix in Fossil Fuels](#), *Harvard Magazine*, January 2014
[Role of Gas Will be Limited in Climate Change Battle, Experts Note](#), *Oil & Gas Journal*, October 9, 2013
[What People Close to Obama Think About the Keystone XL Pipeline](#), *National Journal*, May 5, 2013
[The Experts: Should the Government Finance New-Energy Technologies](#), *Wall Street Journal*, March 28, 2013
[Goldman Sachs: Sorry, U.S. Manufacturing Isn't Coming Back](#), *Washington Post Wonkblog*, March 25, 2013
[America's Most Obvious Tax Reform Idea: Kill the Oil and Gas Subsidies](#), *The Atlantic*, March 19, 2013
Washington Needs Smarter Policy than Sequester, *Boston Globe*, March 2, 2013
[Brookings Recommends Carbon Tax, Cutting Some Regs](#), *Politico Morning Energy*, February 26, 2013
[Brookings Wants to Revamp the Federal Budget: Here Are Its 11 Best Ideas](#), *Washington Post Wonkblog*, February 25, 2013
[Solyndra Stunk. The Green Stimulus Didn't](#), *Washington Post Wonkblog*, January 9, 2013
[Both Romney and Obama Avoid Talk of Climate Change](#), *New York Times*, October 25, 2012
[Want a More Substantive Obama-Romney Debate on Energy and Climate?](#) Read This, *Washington Post Wonkblog*, October 24, 2012
[Romney, Obama Reps Square Off Over Energy Plans in Debate](#), *Christian Science Monitor*, October 10, 2012
[Romney, Obama Surrogates Debate Energy and Climate Priorities](#), *Greenwire*, October 8, 2012
[Reps for Obama, Romney, Debate Energy and Climate](#), *Nature News Blog*, October 6, 2012
[Obama Returns to Iowa as Lead Slips in State](#), *National Journal Daily*, August 31, 2012
[Obama Campaign: Romney Energy Plan for "Big Oil,"](#) *Politico*, August 23, 2012
[The Revival of Big Red](#), *National Journal Daily*, May 31, 2012
[Risky Business](#), *National Journal Daily*, September 21, 2011
Footing the Bill, *National Journal*, March 31, 2011
[The Price is Not Right](#), *National Journal*, March 19, 2011
[U.S. Pushes, but Reactors Are Lagging](#), *New York Times*, January 31, 2011

Climate: Speaking the Truth on Avoided Deforestation and Warming in Cancun, *Time*, December 9, 2010

Gulf Region Eyes Recovery as Oil Spill Losses Mount, *USA Today*, September 20, 2010

[Obama Aide Urges Listing of Gas-Drilling Chemicals](#), *Reuters*, March 10, 2010

Regulatory Policy

[Trump's Claim His Deregulatory Actions Are Saving American Households \\$3,000 a year](#), *Washington Post*, August 15, 2019

[Cosmic Markdown: EPA Says Life Is Worth Less](#), *Washington Post*, July 19, 2008

Teaching Experience:

Assistant Professor of Public Policy / Associate Professor of Public Policy / Professor of the Practice of Public Policy

API-102, Economic Analysis of Public Policy, Harvard Kennedy School, 2011–2014, 2016–2020

API-164, Energy Policy Analysis, Harvard Kennedy School, 2012–2014, 2016–2019

API-165, Energy and Environmental Economics and Policy, Harvard Kennedy School, 2020

Adjunct Assistant Professor/Lecturer

ECON 275, Environmental Economics, Georgetown University, 2007, 2008

PPOL 727, Economics of Climate Change, Georgetown Public Policy Institute, 2008

440-632, Benefit-Cost Analysis, Johns Hopkins University, 2007

Executive Education/Short Course Instruction

Climate Change and Energy: Policy Making for the Long Term – Climate Policy and Energy Innovation Lectures, Harvard Kennedy School, 2016–2019

Market-based Instruments for Pollution Control, Fletcher School of Law and Diplomacy, Tufts University, 2019

Berkeley Grad Camp – Economics of Climate Policy Lecture (half day), 2016

Short Course on International Economics of Climate Change (2 days), Sherman Kent School for Intelligence Analysis, 2008, 2011, 2013, 2014

Guest Lecturer

Harvard Kennedy School (2011, 2013, 2015–2020), Harvard Business School (2011–2020), Harvard School of Public Health (2019), University of Pennsylvania (2016), Columbia University (2011, 2014, 2015), Carnegie Mellon University (2009, 2010, 2011, 2014), Harvard Law School (2004, 2011), Massachusetts Institute of Technology (2011), Yale University (2007), ALI-ABA Climate Change and the Law Short Course (2007, 2008), Johns Hopkins University (2006), Howard University (2005), Princeton University (1999), Duke University (1998, 2020)

Teaching Fellow/Teaching Assistant

EC 970, Economics of Climate Change, Sophomore Tutorial, Harvard University, 2002, 2003

EC 1410, Public Economics, Harvard University, 2003

EC 1010a, Intermediate Microeconomics, Harvard University, 2001

ENV 270, Resource and Environmental Economics, Nicholas School of the Environment, 1994

ENV 101, Introduction to Environmental Science and Policy, Duke University, 1994, 1995 (Head TA)

Journal Referee:

American Economic Journal – Applied Economics, American Economic Journal – Economic Policy, American Economic Review, American Economic Review: Insights, American Journal of Health Economics, B.E. Journals in Economic Analysis & Policy, Climate Policy, Climatic Change, Ecological Economics, Economics, Economics of Energy and Environmental Policy, Economics Letters, Energy Economics, Energy Policy, Environment and Development Economics, Environmental Forum, Environmental and Resource Economics, European Economic Review, European Journal of Health Economics, Foundations and Trends in Microeconomics, Global Environmental Change, Global Environmental Politics, International Economic Review, International Environmental Agreements, Joule, Journal of the Association of Environmental and Resource Economics, Journal of Benefit-Cost Analysis, Journal of Economic Theory, Journal of Environment and Development, Journal of Environmental Economics and Management, Journal of Environmental Management, Journal of Health Economics, Journal of Human Resources, Journal of Legal Analysis, Journal of Policy Analysis and Management, Journal of Political Economy, Journal of Public Administration Research and Theory, Journal of Public Economics, Journal of Risk and Uncertainty, Milbank Quarterly, Nature, Nature Climate Change, Nature Communications, Nature Energy, Nature Sustainability, Proceedings of the National Academy of Sciences, Quarterly Journal of Economics, Resource and Energy Economics, Review of Economic Studies, Review of Economics and Statistics, Review of Environmental Economics and Policy, Review of Policy Research, Science, Southern Economic Journal, The Energy Journal, Water Resources Research

Reviewer:

Academic Press:

Cambridge University Press

Columbia University Press

Oxford University Press

Routledge

The Handbook of Environmental Economics, Volume IV

Government:

Council of Economic Advisers

Department of Energy

Department of Health and Human Services

Department of Transportation

Environmental Protection Agency

National Research Council

National Science Foundation

Office of Management and Budget

U.S. Carbon Cycle Science Steering Group

U.S. Global Change Research Program

Intergovernmental Organization:

Intergovernmental Panel on Climate Change

International Monetary Fund

World Bank

Foundation:

Alfred P. Sloan Foundation
Smith Richardson Foundation

NGO/Research Center:

Brookings Institution
Center on Global Energy Policy
Council on Foreign Relations
Environmental Defense Fund
Pew Center on Global Climate Change
World Resources Institute
World Wildlife Fund

Conferences and Workshops:

World Congress of Environmental and Resource Economists, 2018
National Tax Association Annual Conference, 2017
World Congress of Environmental and Resource Economists, 2014
International Energy Workshop, 2006-2008
Frontiers of Environmental Economics Conference, 2007

Fellowships:

Switzer Fellowship Program, 2015
Joseph Crump Fellowship Program, 2013-2016
Harvard Environmental Economics Program Student Prizes, 2013, 2016
Morris K. Udall Foundation Dissertation Fellowship Competition, 2007, 2008

Member:

American Economic Association
Association of Environmental and Resource Economists
International Association for Energy Economics
Society of Benefit-Cost Analysis

Other Professional Activities:

Member, Economic Guidelines Review Panel to the EPA Science Advisory Board, 2020
Member, American Economic Association Program Committee 2020 Annual Meeting, San Diego, 2019-2020
Co-chair, Mercury and Air Toxics Standards Review Committee to the External Environmental Economics Advisory Committee, 2019
Co-Organizer (and Host 2019), Northeast Workshop on Energy Policy and Environmental Economics, 2018-2019
Organizer and Host, Regulatory Policy Seminar, Mossavar-Rahmani Center for Business and Government, Harvard Kennedy School, 2011-present
Co-Organizer and Program Committee Member, *Frontiers of Environmental Economics* Conference, Resources for the Future, Washington, DC, 2007

Organizer and Host, RFF Academic Seminar Series, 2006-2008
Member, Government Accountability Office Expert Panel on Greenhouse Gas Emissions Trading, organized by National Academy of Sciences, 2008
Member, Government Accountability Office Expert Panel on Climate Change Economics, organized by National Academy of Sciences, 2007
Member, Government Accountability Office Expert Panel on the Strategic Petroleum Reserve, organized by National Academy of Sciences, 2006
Advisor, Progressive Policy Institute Energy and Environment Project, 2006-2008
Contributor, *ClimatePolicy* blog, www.climatepolicy.org, sponsored by AMS, 2007

Consulting Experience:

Administrative Conference of the United States, American Economic Association, Boston College, Cambridge University Press, Canada2020, Cato Institute, Center for American Progress, Center for Disease Dynamics Economics and Policy, Center for Strategic and International Studies, Chevron, Council on Foreign Relations, Duke University, Electric Power Research Institute, Environmental Health and Engineering, Environmental Law Institute, ExpoGestion 2011, External Environmental Economics Advisory Committee, Fondation pour les Etudes et Recherches sur le Développement International, Garten Rothkopf, GEMCLIME, Harvard Kennedy School, Health Canada, Hewlett Foundation, International Monetary Fund, Journal of Political Economy, Massachusetts Institute of Technology, Moore Foundation, NERA, Office of the Prime Minister of Denmark, Government of Qatar, Pew Center on Global Climate Change, Phi Beta Kappa Society, Princeton University, Progressive Policy Institute, Property & Environment Research Center, Research Institute of Innovative Technology for the Earth, Resources for the Future, Rockefeller Foundation, SAIC/LEIDOS, Alfred P. Sloan Foundation, Smith Richardson Foundation, Stonehill College, The Hamilton Project, Tufts University, Udall Foundation, U.S. Department of Energy, U.S. Department of Health and Human Services, U.S. Department of Homeland Security, U.S. Environmental Protection Agency, University of Pennsylvania, University of North Carolina–Wilmington, Vanderbilt University, World Bank, World Wildlife Fund–United States

Graduate School Advisors:

David Cutler (Harvard University)
Caroline Hoxby (Stanford University, formerly Harvard University)
Robert N. Stavins (Harvard Kennedy School)
W. Kip Viscusi (Vanderbilt University; formerly Harvard Law School)

Doctoral Advising – Dissertation Committees:

Gabriel A.S. Chan, Assistant Professor, Humphrey School of Public Affairs, University of Minnesota (graduated 2015)
Sabrina T. Howell, Assistant Professor, Department of Finance, NYU Stern School of Business (2015)
Richard L. Sweeney, Assistant Professor, Department of Economics, Boston College (2015)
Samuel Stolper, Assistant Professor, School of Natural Resource and the Environment, University of Michigan (2016)
Trisha Shrum, Post-Doctoral Researcher, University of Colorado (2016)

Jisung Park, Assistant Professor, School of Public Policy and School of Public Health, University of California – Los Angeles (2017)

Cuicui Chen, Assistant Professor, Department of Economics, SUNY-Albany (2018)

Todd Gerarden, Assistant Professor, Dyson School of Applied Economics and Management, Cornell University (2018)

Daniel Velez-Lopez, Venture Fellow, National Grid Partners (2019)

Megan Bailey, Assistant Professor, Haskayne School of Business, University of Calgary (2020)