

**JOSEPH E. ALDY**

PROFESSOR OF THE PRACTICE OF PUBLIC POLICY  
HARVARD KENNEDY SCHOOL

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**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:**

2024-present	Teresa and John Heinz Professor of the Practice of Environmental Policy Harvard Kennedy School
2019-2024	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)
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
2021-present	Senior Advisor Lazard Climate Center, Lazard Frères & Co.
2019-present	Kentucky Colonel, Commonwealth of Kentucky
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 Resources for the Future
2007-2008	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>
2015-2022	Trustee, Board of Trustees, Robert and Patricia Switzer Foundation (Chair 2019-2022)
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

#### **Advisory and Editorial Board Positions:**

2023-present	Member, National Advisory Committee, U.S. Environmental Protection Agency
2023-present	Member, Economics Advisory Council, Environmental Defense Fund
2023-present	Member, Board of Advisors, Environmental and Energy Law Program, Harvard Law School
2023-present	Advisory Editor, Editorial Board, <i>Journal of Risk and Uncertainty</i>
2021-present	Member, Editorial Board, <i>Review of Environmental Economics and Policy</i>
2021-present	Member, Advisory Board, Kepos Carbon Barometer, Kepos Capital
2020-present	Member, Committee on Government Relations, American Economic Association
2019-2020	Member, Steering Committee, Climate 21 Project
2016-present	Member, Advisory Board, <i>The Environmental Forum</i>
2015-2021	Member, Editorial Advisory Panel, <i>Nature Energy</i>
2011-present	Member, Editorial Board, <i>Economics of Energy and Environmental Policy</i>
2017-present	Member, Advisory Committee, Advancing Retrospective Analysis of Federal Environmental Regulation Project, Resources for the Future
2020-2022	Member, Advisory Board, Clean Resilient States Initiative, Center for Strategic and International Studies

2016-2020	Member, Advisory Committee for the Energy and Environment Program, Alfred P. Sloan Foundation
2015-2017	Member, Peer Review Advisory Committee, Indiana University Corporate Average Fuel Economy Standards Study

### **Awards and Fellowships:**

2021	Best Pedagogical Innovation Finance and Sustainability Award, Forum pour l'Investissement Responsable and Principles for Responsible Investment
2020-2021	Visiting Scholar, Phi Beta Kappa Society
2016	Visiting Scholar, Kleinman Center for Energy Policy, University of Pennsylvania
2015-2018	Non-Resident Fellow, Center on Global Energy Policy, Columbia University
2015	Lone Mountain Fellow, Property & Environment Research Center
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:**

Alfred P. Sloan Foundation, "Evaluating the Performance of the Inflation Reduction Act's Clean Energy Provisions," Principal Investigator, 2023-2024

Salata Institute for Climate and Sustainability, "An End-to-End, Collaborative Strategy to Reduce Global Methane Emissions: Science, Engineering, Economics, Business, Policy, Law, Politics, Communications, and Action," Co-Principal Investigator, 2023-2026

Salata Institute for Climate and Sustainability, "Corporate GHG Reduction and Net-Zero Targets: A Multidisciplinary Assessment of Companies' Targets, their Legal and Business Drivers, Potential Obstacles to their Achievement, and Strategies to Drive Real GHG Reductions," Co-Principal Investigator, 2023-2026

Research Institute of Innovative Technology for the Earth/Resources for the Future, "Managing Competitiveness Risks on the Path to Net-Zero Emissions," Co-Principal Investigator, 2023-2024

Alfred P. Sloan Foundation, "The Role of Carbon Pricing in Future U.S. Energy and Climate Policy," Principal Investigator, 2021-2023

Research Institute of Innovative Technology for the Earth/Resources for the Future, "Addressing Trade in a Net-Zero World," Co-Principal Investigator, 2021-2022

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

Research Institute of Innovative Technology for the Earth/Resources for the Future, "Advancing Global Efforts to Address Climate Change Risks," 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/Resources for the Future, "Evaluating Global Climate Change Policy in Practice," Co-Principal Investigator, 2019-2020

Research Institute of Innovative Technology for the Earth/Resources for the Future, “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/Resources for the Future, “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:**

[“Private Benefits from Public Investment in Climate Adaptation and Resilience”](#) (with Jacob T. Bradt)

[“Climate Tradeoffs: Emission Mitigation Policy, Public Assistance, and Adapting to a Warming Planet”](#) (with Eleanor Krause)

["Show & Tell: An Analysis of Corporate Climate Messaging and its Financial Impacts" \(with Patrick Bolton, Zachery M. Halem, Marcin T. Kacperczyk, and Peter R. Orszag\)](#)

["Learning How to Build Back Better through Clean Energy Policy Evaluation"](#)

["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"](#)

["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:**

[“The Evolving Role of Greenhouse Gas Emission Offsets in Combating Climate Change.”](#) *Review of Environmental Economics and Policy*, with Zachery M. Halem, forthcoming.

[“Investment versus Output Subsidies: Implications for Alternative Incentives for Wind Investment.”](#) *Journal of the Association of Environmental and Resource Economists* 10(4): 981-1018, with Todd D. Gerarden and Richard L. Sweeney, 2023.

[“Behind Schedule: The Corporate Effort to Fulfill Climate Obligations.”](#) *Journal of Applied Corporate Finance* 35(2): 26-34, with Patrick Bolton, Marcin Kacperczyk, and Zachery M. Halem, 2023.

[“How Is the U.S. Pricing Carbon? How Could We Price Carbon?”](#) *Journal of Benefit-Cost Analysis* 13(3): 310-334, with Dallas Burtraw, Maureen Cropper, Carolyn Fischer, Meredith Fowle, and Robertson Williams, 2022.

[“The Welfare Implications of Carbon Price Certainty.”](#) *Journal of the Association of Environmental and Resource Economists* 9(5): 921-946, with Sarah Armitage, 2022.

[“Busting the Myths around Public Investment in Clean Energy.”](#) *Nature Energy* 7: 563-565, with Jonas Meckling, Matthew J. Kotchen, Sanya Carley, Daniel C. Esty, Peter A. Raymond, Bella Tonkonogy, Charles Harper, Gillian Sawyer, and Julia Sweatman, 2022.

- [“Updating the Social Cost of Carbon.”](#) *Issues in Science and Technology* 38(3): 6-8, 2022.
- [“Looking Back at 50 Years of the Clean Air Act.”](#) *Journal of Economic Literature* 60(1): 179-232, with Max Auffhammer, Maureen Cropper, Art Fraas, and Dick Morgenstern, 2022.
- [“Social Science Research to Inform Solar Geoengineering.”](#) *Science* 374: 815-818, with Tyler Felgenhauer, William A. Pizer, Massimo Tavoni, Mariia Belaia, Mark E. Borsuk, Arunabha Ghosh, Garth Heutel, Daniel Heyen, Joshua Horton, David Keith, Christine Merk, Juan Moreno-Cruz, Jesse L. Reynolds, Katharine Ricke, Wilfried Rickels, Soheil Shayegh, Wake Smith, Simone Tilmes, Gernot Wagner, and Jonathan B. Wiener, 2021.
- [“Solar Climate Intervention.”](#) Invited response in The Forum, *Issues in Science and Technology* 38(1), 2021.
- [“Keep Climate Policy Focused on the Social Cost of Carbon.”](#) *Science* 373: 850-852, with Matthew J. Kotchen, Robert N. Stavins, and James H. Stock, 2021.
- [“Environmental Benefit-Cost Analysis: A Comparative Analysis Between the United States and the United Kingdom”](#) *Annual Review of Resource Economics* 13(1): 267-288, with Giles Atkinson and Matthew Kotchen, 2021.
- [“How Much Could Article 6 Enhance Nationally Determined Contribution Ambition toward Paris Agreement Goals through Economic Efficiency.”](#) *Climate Change Economics* 12(2): 2150007, with James Edmonds, Sha Yu, Dirk Forrister, Nathan Hultman, Ryna Cui, Stephanie Waldhoff, Leon Clarke, Stefano de Clara, and Clayton Munnings, 2021.
- [“The Role of Retrospective Analysis in an Era of Deregulation: Lessons from the U.S. Mercury and Air Toxics Standards.”](#) *Review of Environmental Economics and Policy* 15(1): 163-168, with Mary Evans, Karen Palmer, Meredith Fowlie, Arik Levinson, and Matthew Kotchen, 2021.
- [“National Climate Policies and Corporate Internal Carbon Pricing”](#) *The Energy Journal* 42(5): 87-98, with Nuno Bento and Gianfranco Gianfrate, 2021.
- [“Rolling the Dice in the Corridors of Power: William Nordhaus’s Impacts on Climate Change Policy.”](#) *Climate Change Economics* 11(4): 2040001, with Robert N. Stavins, 2020
- [“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:**

["Economic Instruments."](#) *Routledge Companion to Environmental Ethics*, Benjamin Hale and Andrew Light, eds. Routledge, 2022.

["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, 2021.

["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 Developpement 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.

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["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:**

[“Using Trade Policy to Ensure a Level Climate Policy Playing Field.”](#) *The Environmental Forum*, January/February 2024, 15.

[“Applying the Social Cost of Carbon Broadly Across Whole Government.”](#) *The Environmental Forum*, November/December 2023, 15.

[“Policy Implications of Overshooting Global Temperature Increase Goals.”](#) *The Environmental Forum*, September/October 2023, 15.

[“Much Remarkable, but Insufficient, Progress Decarbonizing the World.”](#) *The Environmental Forum*, July/August 2023, 15.

[“Show and Tell: An Analysis of Corporate Climate Messaging and Its Financial Impacts.”](#) *Harvard Law School Forum on Corporate Governance*, June 2023.

[“How Much Could Government Spend on Clean Energy Investment?”](#) *The Environmental Forum*, May/June 2023, 15.

[“How Green is Green Hydrogen? It’s an Energy Source Shell Game.”](#) *The Environmental Forum*, March/April 2023, 15.

[“Crafting Compensation for Bearing Climate Change Loss and Damages.”](#) *The Environmental Forum*, January/February 2023, 15.

[“Let’s Decide to Learn Faster: Delivering More Effective Environmental Policy.”](#) *Yale Journal of Regulation* Notice and Comment Blog, January 2023.

[“The Risks—and Opportunities—of Guaranteeing Clean Energy Loans.”](#) *The Environmental Forum*, November/December 2022, 15.

[“Designing Energy Tax Credits to Drive Greater Emission Reductions.”](#) *The Environmental Forum*, September/October 2022, 15.

[“Listing Investor and Environmental Benefits of Climate Risk Disclosures.”](#) *The Environmental Forum*, July/August 2022, 15.

[“Will the SEC’s Proposed Climate Disclosure Rule Come Up against Legal and Economic Challenges?”](#) *Resources* Special Series on the SEC Climate Disclosure Rule, May 2022.

["Even with Moves toward Transparency, Corporate Climate Pledges and Carbon Offsets Will Be Complicated."](#) *Resources* Special Series on the SEC Climate Disclosure Rule, May 2022.

["Valuing Pollution Reductions in Premature Mortality Risk Cuts."](#) *The Environmental Forum*, May/June 2022, 15.

["Declining Fossil Fuel Prices May Slow Progress in Decarbonization."](#) *The Environmental Forum*, March/April 2022, 15.

["Is the Recent Run Up in Energy Prices Good for the Environment?"](#) *The Environmental Forum*, January/February 2022, 15.

["The Potential Role for Emission Offsets in Climate Change Policy."](#) *The Environmental Forum*, November/December 2021, 15.

["Addressing the Leakage and Competitiveness Risks of Climate Policy."](#) *Resources for the Future* Issue Brief 21-15. October 2021.

["Addressing the Competitiveness Impacts of Pollution Regulations."](#) *The Environmental Forum*, September/October 2021, 15.

["A Realistic Response to the Climate Wake-up Call."](#) *The Hill*, August 30, 2021,

["Promoting Energy Efficiency as a Part of Decarbonization Strategy."](#) *The Environmental Forum*, July/August 2021, 15.

["Decarbonizing the U.S. Economy Has Substantial, Impressive Benefits."](#) *The Environmental Forum*, May/June 2021, 15.

["Modernizing Regulatory Review for Energy, Environmental Policy."](#) *The Environmental Forum*, March/April 2021, 15.

["Trying a Whole-of-Government Approach to Climate Change."](#) *The Environmental Forum*, January/February 2021, 15.

["Biden Should Establish a Carbon Price Benchmark."](#) *The Hill*, November 23, 2020.

["The Incredible Benefits of the Clean Air Act's Half Century."](#) *The Environmental Forum*, November/December 2020, 13.

["The Art of the Climate Change War."](#) *The Regulatory Review*, Penn Program on Regulation, 2020.

["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.

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["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.
- [“Subsidies in the Wrong Places Skew Renewable Energy’s Power.”](#) *New York Times* Room for Debate, May 3, 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, Xhang 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 Debate: How Can the U.S. Lead in Paris to Achieve a Climate Agreement We Can Live With? *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, University of Chicago, 2023

Academic Seminar, Virtual Seminar on Climate Economics, Federal Reserve Bank of San Francisco, 2023

Academic Seminar, University of Kentucky, 2023

Voluntary Corporate Emission Reduction Initiatives, bp-Harvard Symposium, London, 2023

Promoting Clean Energy without Pricing Carbon, bp-Harvard Symposium, London, 2023

Taxing Climate Change and the Inflation Reduction Act Plenary, National Tax Association Annual Conference, Denver, CO, 2023

Academic Seminar, Salata Climate Research Workshop, Harvard University, 2022

Academic Seminar, Energy Policy Seminar, Harvard University, 2022

Environment and Climate Change Canada Invited Lecture, Canadian Economic Association Meetings, Ottawa, Canada, 2022

9<sup>th</sup> Annual Workshop on the Global Economy: Climate Change, Centre for Applied Macroeconomic Analysis, Australian National University, Washington, DC, 2022

Looking Back: Using Retrospective Analysis to Improve Federal Environmental Regulation,  
Resources for the Future, Washington, DC / Zoom, 2022  
SBCA/American Economic Association, Annual Meeting (Zoom), 2022  
Academic Seminar (Zoom), Florida State University, 2021  
Academic Seminar (Zoom), University of Houston, 2021  
Academic Seminar (Zoom), University of Cambridge, 2021  
Future Directions for Research in Evaluating the Clean Air Act, Society for Benefit-Cost Analysis,  
Washington, DC / Zoom, 2021  
Academic Seminar (Zoom), University of Missouri, 2020  
Academic Seminar (Zoom), Congressional Budget Office, 2020  
Academic Seminar (Zoom), Resources for the Future, 2020  
Academic Seminar (Zoom), Chancellor's Distinguished Lecture Series, United Arab Emirates  
University, 2020  
Academic Seminar, Georgia State University, 2020  
Climate-Oriented Economic Recovery, Resources for the Future, Washington DC / Zoom, 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  
3<sup>rd</sup> 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:**

AERE/American Economic Association, Annual Meeting, San Antonio, TX, 2024  
Designing Fiscal Policies on the Road to Net Zero, October 2023 Fiscal Monitor Analytical Chapter Workshop, International Monetary Fund, Zoom, 2023  
Distributional Consequences of New Energy Policies Workshop, National Bureau of Economic Research, Cambridge, MA 2023  
RFF Solar Geoengineering Research Workshop, Resources for the Future, Washington, DC, 2022  
Distributional Consequences of New Energy Technologies Workshop, National Bureau of Economic Research, Cambridge, MA 2022  
Design of Environmental Clubs Workshop, University of Laval, Quebec City, Quebec, Canada, 2022  
The Economics of Innovation in the Energy Sector Workshop, National Bureau of Economic Research, Cambridge, MA, 2022  
AERE/American Economic Association, Annual Meeting, Zoom, 2021  
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:**

Workshop on Tracking and Evaluation of RD&D Programs at the Department of Energy, Resources for the Future, Zoom, 2023

Policy: The Path Forward, XLV MIT Global Change Forum, MIT Joint Program on the Science and Policy of Global Change, Cambridge, MA, 2023

Implementing U.S. Climate Policy through the Inflation Reduction Act, CEPR/EAERE Webinar Series on Climate Policies, Zoom, 2023

Trade Experts Roundtable, Global Affairs Canada, Ottawa, Canada, 2022

BP-Harvard-Tufts Symposium on Climate and Energy Policy, Cambridge / Zoom, 2021

Getting to Net-Zero by 2050, MIT Energy Initiative Annual Research Conference, Zoom, 2021

The Politics of Climate Change, Centre for European Reform, Ditchley Park, England / Zoom, 2021

Macroeconomic Policy and Climate Change, Next Bretton Woods Group Meeting, Peterson Institute for International Economics, Zoom, 2021

Managing Planet Earth, Colgate University, Hamilton, NY / Zoom and Phi Beta Kappa, 2021

Saving the Planet Cost-effectively, Temple University, Philadelphia, PA / Zoom and Phi Beta Kappa, 2021

The Role of Energy and Climate Security in Economic Security, Islamabad Security Dialogue, Islamabad, Pakistan / Zoom, 2021

Status and Prospects for Carbon Pricing in the United States, Harvard Project on Climate Agreements and Sciences Po Paris, France / Zoom, 2021

Saving the Planet Cost-effectively, College of the Holy Cross, Worcester, MA / Zoom and Phi Beta Kappa, 2021

A Whole-of-Government Approach to Climate Policy, Wiener Conference Calls, Harvard Kennedy School, Cambridge, MA/Zoom, 2021

Looking Ahead: Benefit-Cost Analysis for Environmental Regulation, Resources for the Future, Zoom, 2020

Three Prongs for Prudent Climate Policy, IMF Campfire Talk, International Monetary Fund, Zoom, 2020

Saving the Planet Cost-effectively, University of the Pacific, Stockton, CA / Zoom and Phi Beta Kappa, 2020

Prospects of a Net-Zero Target for the United States, Thirteenth Integrated Assessment Modeling Consortium, Zoom, 2020

Saving the Planet Cost-effectively, University of the Pacific, Stockton, CA / Zoom, 2020

Greening Economic Stimulus: Lessons from the 2009 Recovery Act, Conversations on Climate and Energy Policy: A Virtual Forum, Harvard Project on Climate Agreements, Zoom, 2020

Saving the Planet Cost-effectively, Harry S. Truman School of Public Affairs, University of Missouri, Columbia, MO and Phi Beta Kappa Society / Zoom, 2020

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

20<sup>th</sup> 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, 61<sup>st</sup> 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 72<sup>nd</sup> 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 20<sup>th</sup> 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:**

Decarbonization Decoded: The Corporate Finance, Macroeconomic, and Geopolitical Implications of Climate Change, Lazard Frères & Co., 28<sup>th</sup> Conference of the Parties, Dubai, United Arab Emirates, 2023

Global Deep Decarbonization Technology Innovation and International Cooperation, Institute of Climate Change and Sustainable Development, Tsinghua University, 28<sup>th</sup> Conference of the Parties, Dubai, United Arab Emirates, 2023

Taxing Climate Change and the Inflation Reduction Act, 116<sup>th</sup> Annual Conference on Taxation, National Tax Association, Denver, CO, 2023

Lazard Climate and Energy Transition Conference, Lazard Frères & Co., New York, NY, 2023

Solar Geoengineering and International Security, Resources for the Future, Washington, DC, 2022

Discounting the Future: Balancing the Financial, Environmental, Social Costs and Benefits of Climate Action, CGLN Youth Advisory Council Virtual Climate Week, New York / Zoom, 2022

Practitioners' Perspectives, Looking Back: Using Retrospective Analysis to Improve Federal Environmental Regulation, Resources for the Future, Washington, DC / Zoom, 2022

Building Climate Cooperation: The Critical Role for International Carbon Price Floors, The Brookings Institution, Washington, DC / Zoom, 2021

EPA's Cost-Benefit Analysis Rule: Too Prescriptive?, Bipartisan Policy Center, Washington DC / Zoom, 2020

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/Workshop Organizer and Host:**



Co-Organizer, Solar Geoengineering Futures: Interdisciplinary Research to Inform Decisionmaking Workshop, Resources for the Future, Washington, DC 2023  
 Co-Organizer and Co-Host, Harvard Climate Economics Pipeline Workshop, Harvard Kennedy School, Cambridge, MA, 2023  
 Co-Organizer and Co-Host, Political Economy of Climate Change Policy Workshop, Harvard Kennedy School, Cambridge, MA, 2022  
 Co-Organizer and Co-Host, Harvard Workshop on the Economics of the Clean Air Act in Commemoration of the 50<sup>th</sup> Anniversary of the Act, 2021  
 Co-Organizer and Co-Host, Climate-Oriented Economic Recovery Workshop Series, Resources for the Future, 2020  
 Co-Organizer and Co-Host, Solar Radiation Management Dialogue Series, Resources for the Future, 2020  
 Organizer and Host, Regulatory Policy Seminar, Harvard Kennedy School, 2011-present  
 Organizer and Host, Energy Policy Seminar, Harvard Kennedy School, 2019-present  
 Organizer and Host (2019) and Program Committee Member, Northeast Workshop on Energy Policy and Environmental Economics, 2018-2019, 2021-23  
 Organizer and Host, Faculty Lunch Seminar, Harvard Kennedy School, 2016  
 Co-Organizer and Program Committee Member, *Frontiers of Environmental Economics* Conference, Resources for the Future, Washington, DC, 2007  
 Co-Director, International Energy Workshop, 2006-2008  
 Organizer and Host, Academic Seminar, Resources for the Future, 2006-2008

**Conference Session Moderator/Facilitator/Host:**

Solar Geoengineering Futures: Interdisciplinary Research to Inform Decisionmaking, Resources for the Future, Washington, DC, 2023  
 Lazard Climate and Energy Transition Conference, Lazard Frères & Co., New York, NY, 2023  
 Harvard 2022 Bipartisan Program for Newly Elected Members of Congress, Cambridge, MA, 2022  
 Political Economy of Climate Change Policy Workshop, Harvard Kennedy School, Cambridge, MA, 2022  
 Lazard Climate Conference, Lazard Frères & Co., New York, NY, 2021  
 Harvard Workshop on the Economics of the Clean Air Act in Commemoration of the 50<sup>th</sup> Anniversary of the Act, Zoom, 2021  
 BP/HKS/Tufts Fletcher School Symposium on Climate and Energy Policy, Zoom / Cambridge, MA, 2020  
 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:**

[The Role of Fossil Fuel Subsidies in Preventing Action on the Climate Crisis](#), Hearing before the Subcommittee on Environment, U.S. House of Representatives Committee on Oversight and Reform, Washington, DC / Zoom, 2021  
[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 and Podcasts:**

[Joe Aldy on the Complex Economics of the Clean Energy Transition](#), HKS PolicyCast, 2023 (podcast)  
[Climate Spending Czar](#), *Living on Earth*, 2022 (radio)  
[A Green Lining to a Global Crisis?](#) Harvard Advanced Leadership Initiative *Social Impact Review*, 2022  
[Climate and Infrastructure](#), *Living on Earth*, 2021 (radio)  
[Joe Aldy on How Joe Biden Can Jumpstart the Global Climate Effort](#), HKS PolicyCast, 2020 (podcast)  
[Greener Stimulus? Economic Recovery and Climate Policy](#), Columbia Energy Exchange, Center on Global Energy Policy, Columbia University, 2020 (podcast)  
[Climate and the Biden Transition](#), *Living on Earth*, 2020 (radio)

[China Leads on Climate](#), *Living on Earth*, 2020 (radio)  
[Key Conversations with Phi Beta Kappa](#), Phi Beta Kappa Society, 2020 (podcast)  
[Candidate Tracker: The Big Picture on Candidates' Climate Policy Plans](#), Resources Radio, 2019 (podcast)  
[The Politics of Climate Change: A Conversation with Joseph Aldy](#), Environmental Insights Podcast, 2019 (podcast)  
[Reviewing the Climate Crisis Town Hall](#), *Living on Earth*, Public Radio International, 2019 (radio)  
[Fossil Fuels, Climate Change, and Subsidizing Pollution: An Interview with Dr. Joseph Aldy](#), What's the Res?, 2019 (podcast)  
[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, 92<sup>nd</sup> 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 – Quotes and Research References in Press:**

#### *Domestic Climate Policy*

[Yellen Pushes Treasury, World Bank to Fuller Climate Reckoning](#), *Bloomberg*, September 19, 2023  
[An Early Obstacle for Climate Law: Hiring](#), *Politico*, October 11, 2022  
[The Climate Law – and Its Billions – Changed Everything](#), *Greenwire*, October 7, 2022  
[Tesla, Toyota Accuse Biden's EV Tax Credit of Putting Unions over the Environment](#), *Wall Street Journal*, November 18, 2021  
[Biden Crafts a Climate Plan B: Tax Credits, Regulation and State Action](#), *New York Times*, October 23, 2021  
[Joe Manchin Is about to Make Life Worse for His Own Constituents – and the Planet](#), *Vanity Fair*, October 18, 2021  
[Is Cost-Benefit Analysis the Right Tool for Federal Climate Policy?](#), *Yale Climate Connections*, October 14, 2021

[This Powerful Democrat Linked to Fossil Fuels Will Craft the U.S. Climate Plan](#), *New York Times*, September 20, 2021

[‘Seriously Flawed’: Experts Clash over Social Cost of Carbon](#), *ClimateWire*, August 24, 2021

[Democrats Call for a Tax on Imports from Polluting Countries](#), *New York Times*, July 15, 2021

[The Marriage Between Republicans and Big Business Is on the Rocks](#), *New York Times*, April 14, 2021

[How the Oil Lobby Learned to Love Carbon Taxes](#), *Bloomberg Green*, March 4, 2021

[NC Environmental Official a Contender to Lead EPA in Biden Administration](#), *Sources Say*, *Raleigh News & Observer*, December 16, 2020

[For Biden’s Economic Team, An Early Focus on Climate](#), *New York Times*, December 11, 2020

[Yellen Gets a Shot to Put Treasury Clout into Climate Fight](#), *Bloomberg Green*, December 11, 2020

[What Obama’s Climate Czar Can Do for Biden](#), *E&E News*, December 1, 2020

[Can Joe Biden Make Good on His Revolutionary Climate Agenda?](#), *Nature*, November 25, 2020

[So How Much Change Can Biden Bring on Climate Change?](#), *The Harvard Gazette*, November 24, 2020

[The 40 Things Biden Should Do First on Climate Change](#), *Bloomberg Green*, November 11, 2020

[Biden-linked Team Rolls Out Climate Plan](#), *E&E News*, November 11, 2020

[HKS Prof. Aldy Talks Clean Energy, Economic Policy at Belfer Center Webinar](#), *Harvard Crimson*, October 20, 2020

[Bernie Sanders’s Climate Record in Congress: Lots of Advocacy, No Compromise](#), *Washington Post*, March 12, 2020

[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

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[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, 2016–2021  
API-164, Energy Policy Analysis, Harvard Kennedy School, 2012–2014, 2016–2019  
API-165, Energy and Environmental Economics and Policy, Harvard Kennedy School, 2020–21, 2023–24  
API-170, Managing Climate Change Risks: Information, Incentives, and Institutions, Harvard Kennedy School, 2023–24



**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**

Harvard Climate Forum, 2023  
Climate Change and Energy: Policy Making for the Long Term – Climate Policy and Energy  
Innovation Lectures, Harvard Kennedy School, 2016-2019, 2022-2023  
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**

Colgate University (2021), Temple University (2021), College of the Holy Cross (2021), Harvard  
Kennedy School (2011, 2013, 2015-2020, 2022, 2023), Harvard Business School (2011-2020,  
2023), University of Missouri (2020), University of the Pacific (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 Bulletin, 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, Fiscal Studies, Foundations and Trends in  
Microeconomics, Global Environmental Change, Global Environmental Politics, International  
Economic Review, International Environmental Agreements, International Review of  
Environmental and Resource Economics, 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 Agriculture  
Department of Energy  
Department of Health and Human Services  
Department of Transportation  
Environmental Protection Agency  
National Research Council / National Academies of Sciences, Engineering, and Medicine  
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:**

Northeast Energy Policy and Environmental Economics Workshop, 2018-2019, 2021-2023  
European Association of Environmental and Resource Economists, 2021  
American Economic Association Annual Meeting, 2020  
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:**

Joseph Crump Fellowship Program, 2013-2016, 2018-2020, 2022-2023  
Harvard Environmental Economics Program Student Prizes, 2013, 2016, 2019  
Switzer Fellowship Program, 2015  
Morris K. Udall Foundation Dissertation Fellowship Competition, 2007, 2008

**Member:**

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

**Other Professional Activities:**

Member, OMB Circular A-4 Peer Review Committee, 2023  
Member, BenMAP and Benefits Methods Panel of the EPA Science Advisory Board, 2022-2023  
Member, Economic Guidelines Review Panel of 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  
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](http://www.climatepolicy.org), sponsored by AMS, 2007

**Consulting Experience:**

Administrative Conference of the United States, AllianceBernstein, American Economic Association, Amgen, Boston College, Cambridge University Press, Canada2020, Case Western Reserve University, 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 Defense Fund, 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, Lazard Frères & Co., 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, Associate Professor, Humphrey School of Public Affairs, University of Minnesota (graduated 2015)  
 Sabrina T. Howell, Associate Professor, Department of Finance, NYU Stern School of Business (2015)  
 Richard L. Sweeney, Associate Professor, Department of Economics, Boston College (2015)  
 Samuel Stolper, Assistant Professor, School of Natural Resource and the Environment, University of Michigan (2016)  
 Trisha Shrum, Assistant Professor, Department of Community Development and Applied Economics, University of Vermont (2016)  
 Jisung Park, Assistant Professor, School of Social Policy and Practice, University of Pennsylvania (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, Commercial Director, Hydrogen and Low-Carbon, National Grid Partners (2019)  
 Megan Bailey, Assistant Professor, Haskayne School of Business, University of Calgary (2020)  
 Daniel Stuart, Associate, The Analysis Group (2021)  
 Sarah Armitage, Assistant Professor, Questrom Business School, Boston University (2022)  
 Stu Iler, Manager of Energy and Climate Analysis, Massachusetts Executive Office of Energy and Environmental Affairs (2022)  
 Kristen McCormack, Office of Tax Analysis, Department of the Treasury (2023)