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**EDUCATION:** Ph.D. Harvard University, Economics, June 1988

M.S. Cornell University, Agricultural Economics B.A. Northwestern University, Philosophy

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## **PUBLICATIONS:**

#### Articles in Journals

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- "Cap-and-Trade: A Fly in the Ointment? Not Really." August 12, 2009.
- "Policies Can Work in Strange Ways." July 30, 2009.
- "What Role for U.S. Carbon Sequestration?" July 21, 2009.
- "Is Benefit-Cost Analysis Helpful for Environmental Regulation?" July 8, 2009.
- "National Climate Change Policy: A Quick Look Back at Waxman-Markey and the Road Ahead." June 29, 2009.
- "Worried About International Competitiveness? Another Look at the Waxman-Markey Cap-and-Trade Proposal." June 18, 2009.
- "The Wonderful Politics of Cap-and-Trade: A Closer Look at Waxman-Markey." May 27, 2009.
- "The New Auto Fuel-Efficiency Standards Going Beyond the Headlines." May 21, 2009.
- "Straight Talk about Corporate Social Responsibility." May 12, 2009.
- "Does economic analysis shortchange the future?" April 27, 2009.
- "What Baseball Can Teach Policymakers." April 20, 2009.
- "The Making of a Conventional Wisdom." April 13, 2009.
- "Moving Beyond Vintage-Differentiated Regulation." April 6, 2009.
- "Using Markets to Make Fisheries Sustainable." March 31, 2009.
- "A Tale of Two Taxes." March 19, 2009.
- "Misconceptions About Water Pricing." March 14, 2009.
- "Green Jobs." March 7, 2009.
- "As Reservoirs Fall, Prices Should Rise." March 3, 2009.
- "The Myths of Market Prices and Efficiency." March 3, 2009.
- "The Myth of Simple Market Solutions." February 23, 2009.
- "The Myth of the Universal Market." February 17, 2009.
- "Opportunity for a Defining Moment." February 6, 2009.

## Doctoral Advising - Chair or Member of Dissertation Committee (Harvard University)

Robert Lowry, Professor of Political Science, University of Texas (PhD Political Economy and Government 1993)

Suzi Kerr, Chief Economist, Environmental Defense Fund (PhD Economics 1995)

Richard Newell, President and CEO, Resources for the Future (PhD Public Policy 1997)

J.R. Deshazo, Dean and Lyndon B. Johnson Centennial Chair in National Policy, LBJ School of Public Affairs, University of Texas, Austin (PhD Urban Planning/Economics 1997)

Todd Schatzki, Principal, Analysis Group, Boston (PhD Public Policy 1998)

Karen Fisher-Vanden, Professor of Environmental and Resource Economics, Pennsylvania State University (PhD Public Policy 1999)

Nathaniel Keohane, President, Center for Climate and Energy Solutions (PhD Political Economy and Government 2001)

Sheila Cavanaugh Olmstead, Professor of Public Affairs, Lyndon B. Johnson School of Public Affairs, University of Texas, Austin (PhD Public Policy 2002)

Ruben Lubowski, Chief Carbon and Environmental Markets Strategist, Lombard Odier Investment Managers (PhD Political Economy and Government 2002)

Edmund Toy, Director, Colorado Health Institute (PhD Health Policy 2002)

Alix Peterson Zwane, CEO, Global Innovation Fund (PhD Public Policy 2002)

Wenhua Di, Senior Economist, Federal Reserve Bank of Dallas (PhD Public Policy 2004)

Lori Snyder Bennear, Dean, Nicholas School of the Environment, Duke University (PhD Public Policy 2004)

Joseph Aldy, Professor of the Practice of Public Policy, Harvard Kennedy School (PhD Economics 2005)

Darby Jack, Associate Professor, Department of Environmental Health Sciences, Mailman School of Public Health, Columbia University (PhD Public Policy 2006)

Cynthia Lin Lawell, Rob Dyson Sesquicentennial Chair in Environmental, Energy, and Resource Economics, Charles H.

Dyson School of Applied Economics and Management, Cornell University (PhD Economics 2006)

Jing Cao, Associate Professor, Department of Economics, School of Economics and Management, Tsinghua University, Beijing (PhD Public Policy 2007)

Gernot Wagner, Climate Economist and Senior Lecturer, Columbia Business School (PhD Political Economy and Government 2007)

Fei Yu, Deputy Representative, North American Representative Office, Asian Development Bank (PhD Public Policy 2007)

Fan Zhang, Lead Economist and Global Lead for Water Economics and Climate Change, World Bank (PhD Public Policy 2007)

Carolyn Kousky, Associate Vice President, Economics and Policy Analysis, Environmental Defense Fund (PhD Public Policy 2008)

Katharine Sims, Professor of Economics and of Environmental Studies, Amherst College (PhD Political Economy and Government 2008)

Jonathan Borck, Vice President, Analysis Group (PhD Public Policy 2008)

Hunt Allcott, Professor of Global Environmental Policy, Stanford University (PhD Public Policy 2009)

Kelsey Jack, Associate Professor, Bren School of Environmental Science and Management, University of California, Santa Barbara (PhD Public Policy 2010)

Matthew Ranson, Director of Data Science, Agilon Health (PhD Public Policy 2012)

Avinash Kishore, Senior Research Fellow, International Food Policy Research Institute, New Delhi (PhD Public Policy 2012)

Elizabeth Walker Mettetal, Associate Director, Energy and Environmental Economics, Inc. (3E) (PhD Public Policy 2015)

Richard Sweeney, Associate Professor, Department of Economics, Boston College (PhD Public Policy 2015)

Samuel Stolper, Assistant Professor, School for Environment and Sustainability, University of Michigan (PhD Public Policy 2016)

Trisha Shrum, Assistant Professor, College of Agriculture and Life Sciences, University of Vermont (PhD Public Policy 2016)

Jonathan Baker, Manager, Analysis Group (PhD Public Policy 2017)

Jisung Park, Assistant Professor, School of Social Policy and Practice, University of Pennsylvania (PhD Economics 2017)

Cuicui Chen, Assistant Professor of Economics, State University of New York, Albany (PhD Public Policy 2018)

Janhavi Nilekani, Founder and Chairperson, AastarUrmika Health Systems/Aastrika Foundation (PhD Public Policy 2018)

Todd Gerarden, Assistant Professor, Charles H. Dyson School of Applied Economics and Management, Cornell University (PhD Public Policy 2018)

Patrick Behrer, Economist, Development Research Group, The World Bank (PhD Public Policy 2020)

Shefali Khanna, Research Associate in Energy and Environmental Economics, Imperial College London (PhD Public Policy 2021)

Daniel Stuart, Associate, Analysis Group (PhD Public Policy 2021)

Stuart Iler, Manager of Energy and Climate Analysis, Massachusetts Executive Office of Energy and Environmental Affairs (PhD Public Policy 2022)

## PROFESSIONAL EXPERIENCE:

A. J. Meyer Professor of Energy & Economic Development, John F. Kennedy School of Government, Harvard University, 2017- present (Albert Pratt Professor of Business and Government, 1998-2017; Professor of Public Policy, 1997-98; Associate Professor, 1992-1997; Assistant Professor, 1988 - 1992).

Director, Harvard Environmental Economics Program, 2000 - present.

Director of Graduate Studies for Doctoral Program in Public Policy and Doctoral Program in Political Economy and Government, Chairman of the Kennedy School Ph.D. Committee, and Chairman of the Graduate School of Arts and Sciences (GSAS) Standing Committee on Higher Degrees in Public Policy, 2006 - present.

Co-Chair, Harvard Business School-Kennedy School Joint Degree Programs, 2007 - present.

Director, Harvard Project on Climate Agreements, 2005 - present.

University Fellow, Resources for the Future, Washington, D.C., 1989 - present.

Research Associate, National Bureau of Economic Research, 2007 - present.

Andrew D. White Professor-at-Large (visiting), Cornell University, 2023 – present (2029).

Vice-Chair, Board of Directors, Resources for the Future, 2020-present; Member, 2006 - present.

Associate Fellow, Centre for Economic Policy Research, London, UK, 2021 – 2024.

Co-Editor, Review of Environmental Economics and Policy (Oxford University Press), 2009 – present (Editor, 2006-2009).

Member, Board of Directors, Resources for the Future, Washington, D.C., 2003 – 2012, 2014 – present.

Member, Scientific Advisory Board, Fondazione Eni Enrico Matei (FEEM), Milan, 2009 - 2013.

Editor, Journal of Wine Economics, and Vice President, American Association of Wine Economists, 2006 - present.

Member, Editorial Council, Environmental Economics and Policy Studies, 2010 - present.

Member, Editorial Board, Climate Change Economics, 2009 - present.

Member, Advisory Board, Strengthening the U.S. Energy Innovation System, MIT, Cambridge, Massachusetts, 2008-2010.

Chair, Environmental Economics Advisory Committee, Science Advisory Board, U.S. Environmental Protection Agency, 1997-2002 (Member, 1992 - 2003).

Member, Executive Board, Science Advisory Board, U.S. Environmental Protection Agency, 1997-2002; 2004-2007.

Chairman, Executive Office of Environmental Affairs Scientific Advisory Board, Commonwealth of Massachusetts, 2005 - 2007.

Faculty Chair, Environment and Natural Resources Program, John F. Kennedy School of Government, Harvard University, 1997-2002.

Member, Board of Directors, Association of Environmental and Resource Economists, January 1996 - December 1998.

Member, Executive Committee, Harvard University Center for the Environment (formerly Harvard University Committee on the Environment), 1999-2004; Member, University Working Group on Environment, Harvard University, 1990-1992.

Member, Board of Directors, Robert and Renée Belfer Center for Science and International Affairs, John F. Kennedy School of Government, Harvard University, 1997-present.

Member, the Board of Academic Advisors, AEI-Brookings Joint Center for Regulatory Studies, August 1998-present.

Member, Editorial Board, B.E. Journals of Economic Analysis & Policy, 2001-present.

Member, Editorial Board, Land Economics, 2001 - 2006.

Member, Board of Editors, Resource and Energy Economics, 1998 - 2005.

Member, Editorial Council, The Journal of Environmental Economics and Management, 1996 - 2004.

Contributing Editor, Environment, 1997 - 2007.

Member, Advisory Board, Environmental Economics Abstracts, 1996 - present.

Member, Editorial Board, Economic Issues, 1996 - present.

Member, Advisory Board, Environmental Law and Policy Abstracts, 1996 - present.

Member, Subcommittee on Energy, Clean Air, and Climate Change, Clean Air Act Advisory Committee, U.S. Environmental Protection Agency, 1997 - present.

Lead Author, Working Group III, Intergovernmental Panel on Climate Change (IPCC), United Nations Environment Program and World Meteorological Organization, 1993 - present.

Member, Reducing Risk Project Steering Committee, Science Advisory Board, U.S. Environmental Protection Agency, 1996 - present.

Member, External Review Panel, Department of Agricultural and Resource Economics, University of California, Berkeley, October 1995.

Member, Workshop Committee, Association of Environmental and Resource Economists (AERE) 1996-1999 (chair in third year of appointment).

Member, Eco-Efficiency Task Force, President's Council on Sustainable Development, 1994 - 1995.

Member, Energy Modeling Forum Working Group on Energy Conservation (EMF 13), Stanford University, 1992 - 1994.

Member, Advisory Panel on Emissions Trading, Sierra Club, Washington, D.C., 1994 - 1995.

Affiliated Faculty Member, Harvard Center for Risk Analysis, Harvard School of Public Health, Boston, Massachusetts, 1991 - present.

Academic Advisor for Environmental Journalism Program, Foundation for American Communications, 1992 - 1998 (Lecturer, 1989 - present).

Director, Project 88 and Project 88/Round II, co-sponsored by U.S. Senators Timothy Wirth (D-Colorado) and John Heinz (R-Pennsylvania), 1988 - 1992.

Principal, Harvard-Japan Project on Energy and the Environment, 1992 - 1995.

Member, Governor's Task Force on Energy and Environmental Policy, Massachusetts, 1992 – 1994.

Consultant to foundations, private industry, non-governmental organizations, state & local governments, Federal government departments and agencies, and international bodies on environmental economics.

Referee, The American Economic Review, The Quarterly Journal of Economics, The Economic Journal, The RAND Journal of Economics, The Review of Economics and Statistics, The Journal of Environmental Economics and Management, Land Economics, The Energy Journal, Energy and Resource Economics, Energy Policy, The Journal of Policy Analysis and Management, Economic Inquiry, Science, Policy Studies Journal, The Journal of the Air and Waste Management Association, and Harvard University Press.

Member, Risk Reduction Committee, Science Advisory Board, U.S. Environmental Protection Agency, Washington, D.C., 1989 - 1990.

Member, Working Group on Human Interactions with Global Change, National Research Council, Washington, D.C., 1989 - 1990.

Staff Economist, Environmental Defense Fund, Berkeley, California, 1982 - 1983.

Consultant, Public Interest Economics Foundation, Inc., Berkeley, California, September 1980 - June 1982.

- Economist, Giannini Foundation of Agricultural Economics, University of California, Berkeley, 1979 1981.
- Research Specialist, Department of Agricultural Economics, Cornell University, 1977 1979.
- Agricultural Representative, Peace Corps Recruitment, Champaign, Illinois, September 1975 August 1976.
- Peace Corps Volunteer, Ministry of Agriculture and Natural Resources, Sierra Leone, West Africa, 1969 1973.

# AWARDS, HONORS, AND GRANTS:

- Publication of Enduring Quality Award, Association of Environmental and Resource Economists, June 2017, for "The Induced Innovation Hypothesis and Energy-Saving Technological Change," by Richard G. Newell, Adam B. Jaffe, and Robert N. Stavins, *Quarterly Journal of Economics*, Vol. 114, No. 3 (1999), pp. 941-975.
- Edmund G. "Pat" Brown Award, California Council for Environmental and Economic Balance, 2016.
- Fellow, Association of Environmental and Resource Economists, 2009.
- Principal Investigator, grant from the Doris Duke Charitable Foundation, "The Harvard Project on International Climate Agreements," July 2007 June 2009 (\$750,000)
- Principal Investigator, grant from the U.S. Environmental Protection Agency, "Regulating Pollution Through Information Disclosure: Facility Response to the Toxics Release Inventory," July 2002 June 2005 (\$395,459)
- Principal Investigator, grant from the National Science Foundation, "Climate Change Response Strategies for Water Resources: Price and Non-Price Demand Management," March 2001 February 2003 (\$238,000)
- Principal Investigator, grant from AVINA Foundation, "Land Use and Climate Change," September 2000 January 2003 (\$125,000)
- Principal Investigator, grant from the U.S. Department of Energy, "The Effects of Government Policies on the Invention, Innovation, and Diffusion of Energy-Efficient Technologies," October 1, 1998 December 14, 2001 (\$519,000)
- Principal Investigator, grant from the U.S. Department of Energy, "Land-Use Change and Carbon Sinks: Econometric Estimation of the Carbon Sequestration Supply Function," December 15, 1998 December 14, 2001 (\$200,000)
- Principal Investigator, grant from the U.S. Department of Energy, "Energy-Efficiency Innovation and the Economic and Regulatory Environment," September 1995 November 1998 (\$461,000)
- Principal Investigator, grant from the U.S. Environmental Protection Agency, "Estimating a CO2 Sequestration Supply Function," June 1993 August 1994 (\$130,000).
- Principal Investigator, grant from the W. Alton Jones Foundation, "Environmental Policy Reform in the First 100 Days of the New Administration," February 1993 May 1993 (\$40,000).
- Principal Investigator, grant from the Office of Research and Development, U.S. Environmental Protection Agency, "Evaluating the Relative Effectiveness of Economic Incentives and Direct Regulation for Environmental Protection: Impacts on the Diffusion of Technology," September 1991 August 1993 (\$186,000).
- Principal Investigator, grant from the W. Alton Jones Foundation, "Project 88 Round II, Incentives for Action: Implementing Market-Based Environmental Policies," November 1990 August 1992 (\$75,000).
- Principal Investigator, grant from the Pew Charitable Trusts, "Project 88 Round II, Incentives for Action: Implementing Market-Based Environmental Policies," January 1991 August 1992 (\$75,000).
- Principal Investigator, grant from the Surdna Foundation, "Project 88 Round II, Incentives for Action: Implementing Market-Based Environmental Policies," March 1991 August 1992 (\$50,000).
- Principal Investigator, grant from the U.S. Environmental Protection Agency, "Project 88 Round II, Incentives for Action: Implementing Market-Based Environmental Policies," March 1991 -August 1992 (\$50,000).
- Principal Investigator, grant from Carnegie Corporation of New York, "Economic Incentives for Environmental Protection: A Public Policy Sequel to Project 88," June 1990 September 1991 (\$97,600).

- Principal Investigator, grant from Resources for the Future, "Wetland Losses and Willingness-to-Pay for Fishing Opportunities," 1990-1991 (\$20,905).
- Project Director, grant from the Richard King Mellon Foundation, Pittsburgh, Pennsylvania, "Harvard-Project 88 Conference," 1989 (\$35,000).
- Project Director, grants from the Carnegie Corporation of New York, the Richard King Mellon Foundation, the Rockefeller Family and Associates, and the Keystone Center/Madison Associates, "Project 88 Harnessing Market Forces to Protect the Environment: Initiatives for the New President," 1988-89 (\$50,000).
- Principal Investigator, grant from the Fish and Wildlife Service, U.S. Department of the Interior, Washington, D.C., "Welfare Analysis of Alternative Uses of Forested Wetlands," 1987-88 (\$10,000).
- Research Grant from the National Center for Food and Agricultural Policy, Resources for the Future, Washington, D.C., 1986-87 (\$15,000).
- Mentorship Grant in Humanities and Social Sciences, Harvard University, Cambridge, Massachusetts, Fall 1986. With H. S. Houthakker (\$10,000).
- Dissertation Research Grant from the National Center for Food and Agricultural Policy, Resources for the Future, Washington, D.C., 1985-86 (\$15,000).
- Principal Investigator, grant from U.S. Department of the Interior, Washington, D.C., "Impact of Federal Programs on Wetlands," 1985-86 (\$100,000).
- Outstanding Master's Thesis 1979. National competition of the American Agricultural Economics Association, Champaign, Illinois, July 18, 1980.