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& Resource Economics
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EDUCATION

Ph.D., Economics, Stanford University, 1999
A.B., Economics, magna cum laude, Harvard College, 1994

PROFESSIONAL EXPERIENCE

Professor, Department of Agricultural and Resource Economics, and Affiliate Professor,
Department of Economics, University of Maryland–College Park, 2014–present
(Associate Professor and Affiliate Associate Professor, 2010–2014; Visiting Associate
Professor, 2009–2010)
Chief Economist, Climate Leadership Council, 2019–present
Research Associate, National Bureau of Economic Research, 2008–present (Faculty Research
Fellow, 2000–2008)
University Fellow, Resources for the Future, 2019–present (Senior Fellow, 2009–2019; Director
of Academic Programs, 2009–2018)
Associate Professor (with tenure), Department of Economics, University of Texas at Austin,
2007–2010 (Assistant Professor, 1999–2007)
Visiting Research Scholar, Stanford Institute for Economic Policy Research, 2003–04
Andrew W. Mellon Fellow, Economic Studies, Brookings Institution, 2002–03

FIELDS OF INTEREST

Environmental Economics, Public Economics, Microeconomic Theory, Applied
Microeconomics, Energy Economics

PUBLISHED OR FORTHCOMING PAPERS

“Unemployment and Environmental Regulation in General Equilibrium,” with Marc Hafstead,
Journal of Public Economics, 2018, 160:50–65.
“Environmental Taxation,” in A. Auerbach and K. Smetters (eds.) *The Economics of Tax Policy*,
Oxford University Press, 2017.
“Adding Quantity Certainty to a Carbon Tax: The Role of a Tax Adjustment Mechanism for
Policy Pre-Commitment,” with Marc Hafstead and Gilbert Metcalf, *Harvard
Environmental Law Review Forum*, 2017, 41:41–57.
“Resolving the Inherent Uncertainty of Carbon Taxes: Introduction,” with Joseph Aldy, Marc
Hafstead, Gilbert Metcalf, Brian Murray, William Pizer, and Christina Reichert, *Harvard
Environmental Law Review Forum*, 2017, 41:1–13.
“General Equilibrium Impacts of a Federal Clean Energy Standard,” with Lawrence Goulder and
Marc Hafstead, *American Economic Journal: Economic Policy*, 2016, 8(2):186–218.

- “The Initial Incidence of a Carbon Tax across Income Groups,” with Hal Gordon, Dallas Burtraw, Jared Carbone, and Richard Morgenstern, *National Tax Journal*, 2015, 68(1):195-214.
- “Macroeconomic Effects of Carbon Taxes,” with Casey J. Wichman, in I. Parry, A. Morris, and R. Williams (eds.), *Implementing a US Carbon Tax: Challenges and Debates*, International Monetary Fund and Routledge Press, 2015.
- “The Initial Incidence of a Carbon Tax across U.S. States,” with Hal Gordon, Dallas Burtraw, Jared Carbone, and Richard Morgenstern, *National Tax Journal*, 2014, 67(4):807-830.
- “Growing State-Federal Conflicts in Environmental Policy: The Role of Market-Based Regulation,” *Journal of Public Economics*, 2012, 96(11-12):1092-1099.
- “The Choice of Discount Rate for Climate Change Policy Evaluation,” with Lawrence H. Goulder, *Climate Change Economics*, 2012, 3(4), 1250024:1-18.
- “How to Design a Carbon Tax” with Ian Parry and Rick van der Ploeg, in R. de Mooij, I. Parry, and Michael Keen (eds.) *Fiscal Policy to Mitigate Climate Change: A Guide for Policymakers*, International Monetary Fund, 2012.
- “Setting the Initial Time-Profile of Climate Policy: The Economics of Environmental Policy Phase-Ins,” in D. Fullerton and C. Wolfram (eds.) *The Design and Implementation of U.S. Climate Policy*, University of Chicago Press, 2012.
- Comments on “Upstream versus Downstream Implementation of Climate Policy,” in D. Fullerton and C. Wolfram (eds.) *The Design and Implementation of U.S. Climate Policy*, University of Chicago Press, 2012.
- “Moving US Climate Policy Forward: Are Carbon Taxes the Only Good Alternative?” with Ian Parry, in R. Hahn and A. Ulph (eds.) *Climate Change and Common Sense: Essays in Honour of Tom Schelling*, Oxford University Press, 2012.
- “A Simple Model of Optimal Hate Crime Legislation,” with Li Gan and Thomas Wiseman, *Economic Inquiry*, 2011, 49:674-684.
- “Do U.S. Policymakers Have Better Alternatives to Cap and Trade?” with Ian Parry, in G. Ingram and Y. Hong (eds.) *The Environment, Climate Change, and Land Policies*, Lincoln Institute, 2011.
- “What are the Costs of Meeting Distributional Objectives for Climate Policy?” with Ian Parry, *The B.E. Journal of Economic Analysis & Policy*, 2010, 10(2): Article 9.
Reprinted in M. Cohen, D. Fullerton, and R. Topel (eds.) *Distributional Aspects of Energy and Climate Policies*, Edward Elgar, 2013.
- Comments on “How Much Should Highway Fuels Be Taxed?” in G. Metcalf (ed.), *United States Energy Tax Policy*, Cambridge University Press, 2010.
- “Overcoming Distributional Obstacles to Market-Based Environmental Policies,” in I. Parry and F. Day (eds.) *Issues of the Day: 100 Commentaries on Climate, Energy, the Environment, Transportation, and Public Health Policy*, RFF Press, 2010.
- Comments on “Environmental Taxation: What Have We Learned in This Decade?” in A. Viard (ed.), *Tax Policy Lessons from the 2000s*, AEI Press, 2009.
- “Optimal Taxation and Cross-Price Effects on Labor Supply: Estimates of the Optimal Gas Tax,” with Sarah West, *Journal of Public Economics*, 2007, 91:593-617.

- “The Incidence of Pollution Control Policies,” with Ian Parry, Hilary Sigman, and Margaret Walls, in H. Fulmer and T. Tietenberg (eds.), *International Yearbook of Environmental and Resource Economics*, Edward Elgar, 2006, p. 1-42.
- “Evaluating Public Goods and Regulations: Comment,” with Lawrence Goulder and Ian Parry, *Journal of Economic Perspectives*, 2005, 19:233-234
- “The Cost of Reducing Gasoline Consumption,” with Sarah West, *American Economic Review (Papers and Proceedings)*, 2005, 95:294-299
- “The Death of the Pigouvian Tax: Comment,” with Ian Parry, *Land Economics*, 2004, 80:575-581
- “Estimates from a Consumer Demand System: Implications for the Incidence of Environmental Taxes,” with Sarah West, *Journal of Environmental Economics and Management* 2004, 47:535-558
 Reprinted in T. Sterner and A. Muller (eds.) *Environmental Taxation in Practice*, Ashgate Publishing, 2006
 Reprinted in D. Fullerton (ed.) *Distributional Effects of Environmental and Energy Policy*, Ashgate Publishing, 2009
 Reprinted in T. Sterner (ed.) *Fuel Taxes and the Poor: The Distributional Effects of Gasoline Taxation and Their Implications for Climate Policy*, RFF Press, 2011
- “The Substantial Bias from Ignoring General Equilibrium Effects in Estimating Excess Burden, and a Practical Solution,” with Lawrence Goulder, *Journal of Political Economy*, 2003, 111:898-927
 Reprinted in R. Zerbo (ed.) *Benefit-Cost Analysis*, Edward Elgar, 2008
- “Health Effects and Optimal Environmental Taxes,” *Journal of Public Economics*, 2003, 87:323-335
- “Environmental Tax Interactions When Pollution Affects Health or Productivity,” *Journal of Environmental Economics and Management*, 2002, 44:261-270
 Reprinted in L. Goulder (ed.), *Environmental Policy Making in Economies With Prior Tax Distortions*, Edward Elgar, 2002
- “Tax Normalizations, the Marginal Cost of Funds, and Optimal Environmental Taxes,” *Economics Letters*, 2001, 71:137-142
 Reprinted in L. Goulder (ed.), *Environmental Policy Making in Economies With Prior Tax Distortions*, Edward Elgar, 2002
- “The Importance of Tax Interactions for the Costs and Benefits of Government Policies,” *Proceedings of the National Tax Association*, November 2000 meetings, 156-163
- “The Cost-Effectiveness of Alternative Instruments for Environmental Protection in a Second-Best Setting,” with Lawrence Goulder, Ian Parry, and Dallas Burtraw, *Journal of Public Economics*, 1999, 72:329-360
 Reprinted in L. Goulder (ed.), *Environmental Policy Making in Economies With Prior Tax Distortions*, Edward Elgar, 2002
 Reprinted in M. Hoel (ed.), *Recent Developments in Environmental Economics*, Edward Elgar, 2004
 Reprinted in T. Sterner and A. Muller (eds.) *Environmental Taxation in Practice*, Ashgate Publishing, 2006
 Reprinted in R. Brooks, N. Keohane, and D. Kysar (eds.) *Economics of Environmental Law, Volume II: Issues and Applications*, Edward Elgar, 2009

“When Can Carbon Abatement Policies Increase Welfare? The Fundamental Role of Distorted Factor Markets,” with Ian Parry and Lawrence Goulder, *Journal of Environmental Economics and Management*, 1999, 37:52-84

Reprinted in T. Tietenberg (ed.), *The Theory and Design of Emissions Trading Programs*, Ashgate Publishing, 2001

Reprinted in L. Goulder (ed.), *Environmental Policy Making in Economies With Prior Tax Distortions*, Edward Elgar, 2002

“Revisiting the Cost of Protectionism: The Role of Tax Distortions in the Labor Market,” *Journal of International Economics*, 1999, 47:429-447

“A Second-Best Evaluation of Eight Policy Instruments to Reduce Carbon Emissions,” with Ian Parry, *Resource and Energy Economics* 1999, 21:347-373

Reprinted in M. Toman and B. Sohngen (eds.) *Climate Change*, Ashgate Publishing, 2004

“The Double Dividend When Environmental Quality Affects Health or Productivity,” *Proceedings of the National Tax Association*, November 1998 meetings, 63-69

WORKING PAPERS

“Designing and Evaluating a Carbon Tax Adjustment Mechanism,” with Marc Hafstead (2018)

“Mechanisms to Reduce Emissions Uncertainty under a Carbon Tax,” with Marc Hafstead (2018)

“Environmental Policy, Full-Employment Models, and Employment: A Critical Analysis,” with Marc Hafstead and Yunguang Chen, NBER Working paper no. 24505 (2018)

“Effect of Climate Policies on Labor Markets in Developing Countries: Review of the Evidence and Directions for Future Research,” with Marc Hafstead, Alexander Golub, Siet Meijer, Badri G. Narayanan, Kevin Nyamweya, and Jevgenijs Steinbuks, World Bank Policy Research Working Paper 8332, February 2018

“Carbon Taxes and Deficit Reduction,” with Jared Carbone and Richard Morgenstern, working paper

“Distribution, Distortionary Taxation, and the Evaluation of Public Goods,” working paper

“An Estimate of the Second-Best Optimal Gasoline Tax, Considering Both Efficiency and Equity,” working paper

“Cost-Effectiveness vs. Hot Spots: Determining the Optimal Size of Emissions Permit Trading Zones,” working paper

“Equity in Social Security Benefit Determination: The Effects of Ignoring Some Working Years,” working paper

“Prices vs. Quantities vs. Tradable Quantities,” NBER Working Paper no. 9283 (2002)

WORK IN PROGRESS

“The Transitional Incidence of a Carbon Tax,” with Hal Gordon, Dallas Burtraw, Jared Carbone, and Richard Morgenstern

“Optimal Environmental Taxation vs. the Double Dividend,” with Lawrence Goulder

BOOKS

Effects of U.S. Tax Policy on Greenhouse Gas Emissions, with William D. Nordhaus (Chair), Maureen L. Cropper, Francisco de la Chesnaye, Noah Diffenbaugh, David G. Hawkins, Roberta F. Mann, Brian C. Murray, John M. Reilly, Drew Shindell, Eric Toder, and Catherine Wolfram (as a committee appointed by the National Academies, Board on Science, Technology, and Economic Policy), National Academies Press, 2013.

Implementing a US Carbon Tax: Challenges and Debates, with Ian W.H. Parry, and Adele Morris, International Monetary Fund and Routledge Press, 2015.

FELLOWSHIPS, HONORS, AND AWARDS

Economic Inquiry Best Article Award, 2011, for “A Simple Model of Optimal Hate Crime Legislation” (co-authored with Li Gan and Thomas Wiseman)

Big XII Faculty Fellowship, 2007-08

Dean’s Fellowship, University of Texas, Spring 2003 and Spring 2008

Andrew W. Mellon Fellowship in Economic Studies, Brookings Institution, 2002-2003

Second Place, National Tax Association Outstanding Doctoral Dissertation Award, 2000

Environmental Protection Agency STAR Graduate Fellowship, 1997-1999

National Science Foundation Graduate Fellowship, 1994-1997

Jacob Javits Graduate Fellowship for 1994-98 (declined in favor of NSF fellowship)

PROFESSIONAL SERVICE AND OTHER ACTIVITIES

Panel Member, U.S. Environmental Protection Agency Science Advisory Board Panel on Economy-wide Modeling of the Benefits and Costs of Environmental Regulation, 2015-2017

Faculty Member, EAERE-FEEM-VIU European Summer School on Environmental Regulation, 2015

Local Organizer, International Workshop on Empirical Methods in Energy Economics, 2015

Expert Group Member for review of Brazil’s Market Readiness Plan, Partnership for Market Readiness, 2014

Organizer, NBER Summer Institute on Environmental and Energy Economics, 2013

Study Panel, National Academies Study of Effects of Provisions in the Internal Revenue Code on Greenhouse Gas Emissions, 2011-2013

Co-Editor, *Journal of Public Economics*, 2009-2012 (Associate Editor, 2007-2009)

Editorial Board, Berkeley Electronic Journals in Economic Analysis and Policy, 2005-2012

Organizer, AEI-Brookings-IMF-RFF Conference on the Economics of Carbon Taxes, 2012

Co-Editor, *Journal of Environmental Economics and Management*, 2007-2009 (Editorial Council member 2005-2007 and 2009-2011)

Organizer, Stanford-RFF Workshop on The Next Round of Climate Economics & Policy Research, 2011

Scientific Committee, 2011 International Institute of Public Finance Annual Congress

Program Committee, 2010 National Tax Association Annual Conference on Taxation

Review Panel, EPA Peer Review of Computable General Equilibrium Models for Climate Change Analysis, 2009-2010

Organizer, NBER Summer Institute on Public Policy and the Environment, 2007

TEACHING AND ADVISING

Undergraduate courses taught:

University of Maryland: Introduction to Economics and the Environment, Environmental Economics

University of Texas: Intermediate Microeconomics, Public Economics (regular and writing-intensive versions), Environmental Economics for Non-Economists

Graduate courses taught:

University of Maryland: Environmental Taxation and Regulation (Ph.D. field), Applied Microeconomic Theory (Ph.D. core)

University of Texas: Public Finance Theory (Ph.D. field), Natural Resource Economics (Ph.D. field), Public Economics Research Seminar (Ph.D. upper-year seminar), Writing Seminar in Public and Environmental Economics (Ph.D. upper-year seminar)

Ph.D. Dissertation Supervisor or Co-Supervisor for:

University of Maryland: Jikun Wang (in progress), Cristobal Ruiz-Tagle (2018, Environmental Defense Fund (post-doc)), Davide Cerruti (2016, ETH Zurich (post-doc)), Jaclyn Evans (2016, Government Accountability Office), Anand Murugesan (2015, Central European University), Ian Page (2015, University of Maryland (post-doc)), Casey Wichman (2015, Resources for the Future, received Outstanding Doctoral Dissertation Awards from both the Association of Environmental & Resource Economists (AERE) and the Agricultural & Applied Economics Association (AAEA)), Kanishka Kacker (2014, World Bank, now at Indian Statistical Institute, Delhi)

University of Texas: Holly Monti (2011, US Census Bureau, now at Far Harbor LLC), Tess Stafford (2010, University of New South Wales, now tenured), R. J. Briggs (2009, Pennsylvania State University, now at RAND Corporation), Sanghyun Hwang (2009, Korea Institute for Industrial Economics & Trade, now at Korea Economic Research Institute), Abdulkadir Nagac (2009, Arkansas Tech University, now at Zirve University), Conan Crum (2008, BlackRock Investments), Jason DeBacker (2008, University of Georgia, now at University of South Carolina), Fidel Gonzalez (2003, Sociedad Hipotecaria Federal, Mexico City, now tenured at Sam Houston State University)

Ph.D. Dissertation Committee Member for:

University of Maryland: Jiehong Lou (Public Policy, in progress), Aaron Adalja (AREC, 2017), Jen Zheng He (AREC, 2017), Xiaoyu Liu (Civil & Environmental Engineering, 2016), Shirley Pon (AREC, 2016), Yichen Christy Zhou (Economics, 2016), Jeffrey Ferris (AREC, 2015), Joseph Maher (AREC, 2015), Filippos Petroulakis (Economics, 2015), Daniel Werner (AREC, 2015), Dana Andersen (AREC, 2014), Ron Chan (Economics, 2014), Timothy Essam (AREC, 2013), Claudia Hitaj (AREC, 2013), Takahiko Kiso (AREC, 2013), Kabir Malik (AREC, 2013), Ariel Ortiz-Bobea (AREC, 2013), Randy Chugh (Economics, 2012), Will Gans (AREC, 2012), Fanqing Ye (AREC, 2012), Gabriel Lara-Ibarra (Economics, 2011)

University of Texas: Jocelyn Wikle (2013), Noah Kaufman (2011), Rebecca Chenevert (2010), Kazuki Konno (2009), Jean Lim (2009), Carolina Rodriguez-Zamora (2009), Katie Raynor (2008), Ping Yan (2008), Jennifer Brown (accounting, 2008), Garth Heutel (2007), Inkee Hong (2007), Diya Mazumder (2007), Lori Stuntz (2007), Jijun Tan (2006), Laura Konda (2004), Allen Fawcett (2003), Seung-Rae Kim (2003), William Macey (2002), Young Yoo (2002), Joseph Breedlove (2001)

Other Universities: Diane Aubert (Université Paris I Panthéon-Sorbonne - Paris School of Economics, 2017)

M.S. Thesis Advisor for:

University of Maryland: Gaurav Satija (AREC, 2016), Linlin Cheng (Economics, 2016), Xiaoyu Liu (Economics, 2016), Olivier Francois (AREC, 2015), Jane Zhou (AREC, 2014)

Undergraduate Thesis Advisor or Co-Advisor for:

University of Texas: Jeff Scott (2008), Sarah Smith (2008), Ryan Kingsbury (2007), Erin Mallard (2006), Justin Hauke (2005), George Hoyt (2002)

DEPARTMENT AND UNIVERSITY SERVICE

University of Maryland:

AREC Graduate Studies Committee, 2009-2012 and 2017-present

Director of Graduate Studies, 2011-2012 and 2018-present

AREC Assistantship/Teaching Committee, 2011-2012 and 2018-present

AREC Junior Faculty Mentor for Lint Barrage (2013-2015), Sébastien Houde (2013-2017), Pamela Jakiela (2016-2017), and Neslihan Uler (2016-present)

Faculty Steering Committee, Maryland Center for Economics and Policy, 2013-present

AREC Seminar Committee, 2010-2018

Seminar Committee Chair, 2012-2018

AREC Faculty Advisory Committee, 2015-2018

Faculty Advisory Committee Chair 2017-2018

AREC Faculty Search Committee, 2010-2013 and 2014-2016

AREC Department Appointments, Promotion, and Tenure (APT) Committee (4 cases, chair for 1), 2014-2017

APT Committee, College of Agriculture and Natural Resources, 2014-2016

APT Committee Associate Chair, 2014-2015

APT Committee Chair, 2015-2016

AREC Department Chair Search Committee, 2014-2015

Review committee for the Associate Dean of Research, College of Agriculture and Natural Resources, 2013-2014

University of Texas:

Economics Department Undergraduate Studies Committee, 2006-2010

Department Representative, Undergraduate Research Apprenticeship Program, 2007-2010

Faculty Panel Member, Bridging Disciplines Program in the Environment, 2007-2010

Faculty Participant, IGERT program on indoor environmental quality, 2006-2010

Faculty Sponsor, Texas Economics Association, 2000-2010

Organized and led association trips to Monterrey, Mexico, April 2001 and 2002

Economics Department Executive Committee, 2001-2002 and 2008-2009

Economics Department Recruiting Coordinating Committee, 2007-2009

Economics Department Graduate Placement Chair, 2007-2008

Economics Department Strategic Planning Committee, 2007

Applied Microeconomics Faculty Recruiting Committee Chair, 2006-2007

University Ad Hoc Committee on Sustainability, 2005-2007

Economics Department Ph.D. Admissions and Awards Committee, 2005-2007

Co-Chair, Graduate Recruitment Weekend, 2006

Economics Department Marshal, Commencement 2001, 2005, 2006, 2007, and 2009

Conference Organizer, First UT-ITAM Economics Conference, 2001