

Colorado School of Mines Phone: 303-384-2175
Division of Business and Economics Email: jcarbone@mines.edu
Engineering Hall Web: <http://www.mines.edu/~jcarbone>
816 15th Street
Golden, Colorado 80401, USA

PERSONAL

Born December 9, 1974
U.S. citizen, permanent resident of Canada
Married with two children

EDUCATION

Ph.D., Economics, University of Colorado, Boulder, CO, USA	2003
M.A., Economics, University of Colorado, Boulder, CO, USA	2001
B.A., Math-Economics, Wesleyan University, Middletown, CT, USA	1997

EXPERIENCE

Associate Professor, Division of Economics and Business, Colorado School of Mines	2014-
Associate Professor, Department of Economics, University of Calgary (Granted tenure in 2010)	2008-14
Faculty, Institute for Sustainable Energy, Environment and Economy University of Calgary	2008-12
Assistant Professor, Department of Economics, Williams College	2005-7
Postdoctoral Fellow, Center for Environmental and Resource Economics Policy North Carolina State University	2003-5
Research Assistant, Department of Economics, University of Colorado - Boulder	1999-2003
Research Fellow, Williams Project on the Economics of Higher Education Williams College	1997-99

FELLOWSHIPS, HONORS, AND INVITED APPOINTMENTS

Fulbright Scholarship, Visiting Chair in the Environment and Economy University of Ottawa (declined)	2017
Science Advisory Board Member, U.S. Environmental Protection Agency, Panel on Economy-Wide Modelling	2015-7
Co-Editor, Journal of Environmental Economics and Management	2014-6
Editorial Council, Journal of the Association of Environmental and Resource Economists	2014-
Nonresident Fellow, Resources for the Future	2013
Editorial Council, Journal of Environmental Economics and Management	2013, 2017-
Scientific Advisor, Ragnar Frisch Centre for Economic Research	2012-
Co-Editor, Environmental and Resource Economics	2012-4
Gilbert F. White Postdoctoral Fellow, Resources for the Future	2011-2
Visiting Professor, Zentrum für Europäische Wirtschaftsforschung	2008

PEER-REVIEWED PUBLICATIONS

Böhringer, Christoph, Jared C. Carbone and Thomas F. Rutherford. "Embodied Carbon Tariffs," *Scandinavian Journal of Economics*, 2018, 120(1), 183-210. [Previous version appears as NBER Working Paper No. 17376. August 2011.]

Carbone, Jared C. and Robert S. Gazzale. "A Shared Sense of Responsibility: Money Versus Effort Contributions in the Voluntary Provision of Public Goods," *Journal of Economic Behavior and Organization*, 139, (2017): 74-87.

Carbone, Jared C. and Snorre Kverndokk, "Investments in Education and Health" In K. Bolin, M. Grossman, B. Lindren and L. Pirhonen (Eds.). *Advances in Health Economics and Health Services Research: Human Capital and Health Behavior*, Emerald Publishing Limited, (2017): 33-83.

Carbone, Jared C., and Nicholas Rivers. "The Impacts of Unilateral Climate Policy on Competitiveness: Evidence From Computable General Equilibrium Models." *Review of Environmental Economics and Policy* 11, no. 1 (2017): 24-42.

Carbone, Jared C. and Kenneth J. McKenzie. "Going Dutch? The Impact of Oil Price Shocks on the Canadian Economy," *Canadian Public Policy*, 42, no. 2, (2016): 168-180.

- Böhringer, Christoph, Jared C. Carbone and Thomas F. Rutherford. "The Strategic Value of Carbon Tariffs," *American Economic Journal: Economic Policy*, 8, no. 1, (2016): 28-51.
- Williams III, Robertson, Hal Gordon, Dallas Burtraw, Jared C. Carbone and Richard D. Morgenstern, "The Initial Incidence of a Carbon Tax Across Income Groups," *National Tax Journal*, 68, no. 1, (2015): 195-214.
- Williams III, Robertson, Hal Gordon, Dallas Burtraw, Jared C. Carbone and Richard D. Morgenstern, "The Initial Incidence of a Carbon Tax Across U.S. States," *National Tax Journal*, 67, no. 4 (2014): 807-830.
- Carbone, Jared C. and V. Kerry Smith. "Valuing Nature in a General Equilibrium," *Journal of Environmental Economics and Management*, 66, no. 1, (2013): 72-89. [Previous version appeared as NBER Working Paper No. 15844, March 2010.]
- Carbone, Jared C. "Linking Numerical and Analytical Models of Carbon Leakage Effects," *American Economic Review*, 103, no. 3 (2013): 326-331.
- Böhringer, Christoph, Jared C. Carbone and Thomas F. Rutherford. "Unilateral Climate Policy Design: Efficiency and Equity Implications of Alternative Instruments to Reduce Carbon Leakage," *Energy Economics*. 34 (Supplement 2), (2012): S208-S217.
- Carbone, Jared C., Carsten Helm and Thomas F. Rutherford. "The Case for International Emission Trade in the Absence of Cooperative Climate Policy," *Journal of Environmental Economics and Management*, 58, no. 3, (2009): 266-280.
- Phaneuf, Daniel J., Jared C. Carbone and Joseph A. Herriges. "Non-Price Equilibria for Non-Marketed Goods," *Journal of Environmental Economics and Management*, 57, no. 1, (2009): 45-64.
- Carbone, Jared C. and V. Kerry Smith. "Evaluating Policy Interventions with General Equilibrium Externalities," *Journal of Public Economics*, 92, no. 5, (2008): 1254-1274.
- Smith, V. Kerry, Jared C. Carbone, Daniel G. Hallstrom, Jaren C. Pope and Michael E. Darden. "Adjusting to Natural Disasters," *Journal of Risk and Uncertainty*, 33, no. 12, (2006): 37-54.
- Carbone, Jared C., Daniel G. Hallstrom and V. Kerry Smith. "Can Natural Experiments Reveal Behavioral Responses to Environmental Risks?" *Environmental and Resource Economics*, 33, no. 3, (2006): 73-97.
- Carbone, Jared C., Snorre Kverndokk and Ole Jørgen Røgeberg. "Smoking, Health, Risk, and Perception," *Journal of Health Economics*, 24, no. 4, (2005): 631-653.
- Carbone, Jared C. and Gordon C. Winston. "Saving, Wealth, Performance, and Revenues in US Colleges and Universities," *Review of Higher Education*, 28, no. 1, (2004): 97-128.

OTHER PUBLICATIONS

- Carbone, Jared C. "The Case for International Emission Trade," School of Public Policy Communique, University of Calgary, February 2009, 1, 2.

Carbone, Jared C. “A review of: The Economic Impacts of Terrorist Attacks, Edited by Harry W. Richardson, Peter Gordon and James E. Moore II.” *Journal of Regional Science*, August 2007, 47, 3, 634-638.

Smith, V. Kerry and Jared C. Carbone. “Should Benefit-Cost Analyses Take Account of General Equilibrium Effects?” in Richard Zerbe, ed., *Research in Law and Economics: A Journal of Policy*, 2007, 23, 247-272.

Smith, V. Kerry and Jared C. Carbone. “Curse of the Circular Flow,” in JunJie Wu, P. Barkley, and B. Weber eds., *Frontiers in Resource and Rural Economics: Selected Essays*. Resources for the Future Press, 2007.

WORK IN PROGRESS

“Modeling equilibrium responses to climate-induced migration” with Sul-Ki Lee.

“On the interaction of rate-based policy options and electricity storage capacity” with Maxwell Brown.

“Comparing applied general equilibrium and econometric estimates of the effect of an environmental policy shock” with Nic Rivers, Akio Yamazaki and Hidemichi Yonezawa.

“Green Fiscal Reform and the Demographic Squeeze” with Akio Yamazaki.

“Carbon Taxes and Deficit Reductions,” with Richard D. Morgenstern and Roberton C. Williams III.

RESEARCH FUNDING

Co-Principal Investigator, “Integrated Multi-sector, Multi-scale Modeling (IM3) Scientific Focus Area” Climate and Environmental Sciences Division, U.S. Department of Energy, 2016-19.

Principal Investigator, “How will the Clean Power Plan affect the electricity sector and carbon emissions across the U.S.?” Payne Institute for Earth Resources, Colorado School of Mines, 2016-17.

Principal Investigator, seed grant, Payne Institute for Earth Resources, Colorado School of Mines, 2015.

Co-Principal Investigator, “Environmental Regulation and Competitiveness: The Evidence from the British Columbia Carbon Tax” Environmental Economics and Policy Research Network, Environment Canada, 2014.

Principal Investigator, “Evaluating the Competitiveness Effects of Unilateral Climate Policies” Environmental Economics and Policy Research Network, Environment Canada, 2013.

Co-Principal Investigator, “Designing Carbon Pricing Policy to Drive Innovation in Low Carbon Technologies and Practices,” Carbon Management Canada, 2012-14.

Co-Principal Investigator, “Development of a Watershed Computational General Equilibrium Model for Marcellus Shale Region,” Resources for the Future New Frontiers Fund, 2012-14.

Collaborator, “Energy and Environmental Policies for Deficit Reduction,” Smith Richardson Foundation, Bipartisan Policy Commission and Resources for the Future, 2011-12.

Collaborator, “A life cycle environmental and techno-economic evaluation of the oil sands,” Carbon Management Canada — NCE, 2010-13.

Co-Principal Investigator, “Should Alberta produce bitumen, SCO or refined petroleum products? The relative value of downstream processes evaluated using both life cycle assessment and computable general equilibrium models,” Canada School for Energy and Environment, 2010-11.

Collaborator, “NORKLIMA: Climate Change and Its Impacts in Norway,” Research Council of Norway, 2009-11.

Collaborator, “Investments in Health and Education,” Health Economics Research Programme, University of Oslo, 2008-9.

Collaborator, “Smoking, Health, Risk and Perception,” Health Economics Research Programme, University of Oslo, 2002-3.

TEACHING

Colorado School of Mines:

EBGN 645 (graduate), Computational Economics (2014,15,16); EBGN 570 (graduate), Environmental Economics (2015,17); EBGN 470 (undergraduate), Environmental Economics (2015,16); EBGN 310 (undergraduate) Environmental and Resource Economics (2015,16,17).

University of Calgary:

ECON 487 (upper-level, undergraduate), Environmental Economics (2013); Independent Study (graduate), Behavioral Environmental Economics (2012); ECON 677 (graduate), Seminar in Economics of the Environment (2010,11,12,13); ECON 619 (graduate), Economics of International Commercial Policy (2010); EESS 619.3 (graduate), Economics for Energy and Environmental Policy Analysis (2010,11); ECON 607 (graduate), Advanced Computational Optimization and Economic Applications (2009).

Williams College:

ECON 379 (undergraduate), The Economics of Sustainability (2007); ECON 221 (undergraduate), Economics of the Environment (2006,7); ECON 386/515 (undergraduate/graduate), Environmental Policy and Natural Resource Management (2006,7); ECON 251 (undergraduate), Price and Allocation Theory (2005-7).

Short Courses:

CGE Modeling for the Analysis of Energy and Environmental Policies in Canada, Environment Canada (2009); Workshop on Economic Modeling International Trade and Climate Policies, University of Las Palmas, Canary Islands (2009).

STUDENT ADVISING

Supervision:

Sul-Ki Lee, Mineral and Energy Economics, PhD, Colorado School of Mines, in progress (Spring 2018 expected). (co-advisor)

Maxwell Brown, Mineral and Energy Economics, PhD, Colorado School of Mines, 2017. (advisor)

Khalid Aljhirish, Mineral and Energy Economics, PhD, Colorado School of Mines, 2015. (committee member)

Fadli Rahman, Mineral and Energy Economics, PhD, Colorado School of Mines, 2015. (committee member)

Vitaliy Krasko, Operations Research with Engineering, PhD, Colorado School of Mines, 2016 (committee member)

Akio Yamazaki, Economics, PhD, University of Calgary, in progress (committee member)

Younes Ahmadi, Economics, PhD, University of Calgary, in progress (committee member)

Yuan Wen, Economics, PhD, University of Calgary, 2015 (advisor)

Nicholas Choquette-Levy, Engineering, MSc, University of Calgary, 2011 (committee member)

REVIEWER SERVICE

“” indicates multiple reviews.*

American Economic Journal: Economic Policy*; The B.E. Journal of Economic Analysis & Policy; Canadian Journal of Economics; Canadian Public Policy; China Economic Review; Climate Policy; Energy Economics*; The Energy Journal*; Energy Policy*; Environment and Development Economics; Environmental and Resource Economics*; Health Economics; International Tax and Public Finance*; Journal of the Association of Environmental and Resource Economics*; Journal of Development Economics; Journal of Environmental Economics and Management*; Journal of Economics and Management Strategy*; Journal of Health Economics*; Journal of International Trade and Economic Development; Journal of Public Economics*; Journal of Regional Science; Marine Resource Economics*; Nature: Climate Change; Resource and Energy Economics*; Review of Economic Studies; Review of Environmental Economics and Policy; Review of Higher Education.

OTHER SERVICE

Colorado School of Mines:

Lead organizer of Payne Institute activities — electricity market simulation model and interactive web tool development (2016-7), Annual Conference (Spring 2016), Distinguished Lecture Series (Spring 2015), Research Collaboration Lunch (Fall 2015); EB faculty search committee chair (2016); EB division director search committee (2015); Payne Institute director search committee (2015-6); University research council (2015-7); division P&T committee (2015-6)

University of Calgary:

Dean's representative to hiring committee in Communications and Culture Dept. (2014); Chair of Graduate Placement Committee (2012-14); Graduate Studies Committee (2012-14); Advisory Committee, Dept of Economics (2010-11, 2012-13); Research Activities Committee, Dept of Economics (2008-2011); Computer Committee, Dept of Economics (2009-2011); Co-Organizer of Summer Visiting Researcher Program, Dept of Economics (2008-2010); Appointments Committee, EES-ISEEE (2011); Curriculum Committee, EES-ISEEE (2008-2010); Admissions Committee, EES-ISEEE (2009-2010)

Williams College:

Microeconomics Curriculum Committee, Dept of Economics (2005); Library Committee, Dept of Economics (2006-7); Computer Committee, Dept of Economics (2007); College-Level Information Technology Committee (2006-7); Research Brown Bag Seminar Organizer, Dept of Economics (2006-7); Participant in information session for students considering graduate studies (2005-2007); Student radio show guest on current events in environmental policy (2006); Co-Organizer, Conference on Global Warming in Developing Countries, Center for Development Economics (2008).