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Daniel Thomas Kaffine
University of Colorado Boulder

Education

Ph.D. Environmental Science and Management, University of California, Santa Barbara, 2007
M.A. Economics, University of California, Santa Barbara, 2003
B.S. Physics, University of St. Thomas, 2002.
B.A. Mathematics, University of St. Thomas, 2002.

Employment

2018- Professor, Department of Economics, University of Colorado Boulder
2018-19 Associate Chair of Undergraduate Studies, Department of Economics, University of Colorado Boulder
2013-18 Associate Professor, Department of Economics, University of Colorado Boulder
2013- Fellow, Renewable and Sustainable Energy Institute, University of Colorado Boulder
2013 Associate Professor, Division of Economics and Business, Colorado School of Mines
2007-13 Assistant Professor, Division of Economics and Business, Colorado School of Mines

Areas of Interest

Environmental and resource economics, property rights, urban economics, dynamic optimization, spatial modeling, renewable energy

Publications

Journal Articles

Julie Lundquist, K.K. DuVivier, Daniel Kaffine, and Jessica Tomaszewski. "Costs and consequences of wind turbine wake effects arising from uncoordinated wind energy development." Forthcoming, *Nature Energy*, 2018.

Jonathan Hughes and Daniel Kaffine. "When Should Drivers be Encouraged to Carpool in HOV Lanes?" Forthcoming, *Economic Inquiry*, 2018.

Antonio Bento, Teevrat Garg, and Daniel Kaffine. "Emissions reductions or green booms? The general equilibrium effects of a Renewable Portfolio Standard." *Journal of Environmental Economics and Management*, 90:78-100, 2018.

Christopher Costello and Daniel Kaffine, "Natural resource federalism: Preferences versus connectivity for patchy resources." *Environmental and Resource Economics*, 71(1): 99-126, 2018.

Harrison Fell and Daniel Kaffine, "The Fall of Coal: Joint impacts of fuel prices and renewables on generation and emissions." *American Economic Journal: Economic Policy*, 10(2): 90-116, 2018.

Harrison Fell, Daniel Kaffine, and Daniel Steinberg. "Energy efficiency and intensity standards." *Journal of the Association of Environmental and Resource Economists*, 4(S1): S201–S226, 2017.

Jonathan Hughes and Daniel Kaffine, "When is Increasing Consumption of Common Property Optimal? Sorting, Congestion and Entry in the Commons" *Journal of Environmental Economics and Management*, 81: 227-242, 2017.

Daniel Kaffine and Graham Davis, "A multi-row deletion diagnostic for influential observations in small-sample regressions." *Computational Statistics and Data Analysis*, 108:133-145, 2017.

Christopher Costello and Daniel Kaffine, "Private conservation in TURF-managed fisheries." *Natural Resource Modeling*, 30(1):30-51, 2017.

Kevin McCoy, Vitaliy Krasko, Paul Santi, Daniel Kaffine, and Steffen Rebennack. "Minimizing economic impacts from post-fire debris flows in the western United States." *Natural Hazards*, 83(1):149-176, 2016.

Peifang Yang and Daniel Kaffine, "Community-based tradable permits for localized pollution." *Environmental and Resource Economics*, 65(4):773-788, 2016.

Antonio Bento, Daniel Kaffine, Kevin Roth and Matthew Zaragoza-Watkins. "The Effects of Regulation in the Presence of Multiple Unpriced Externalities: Evidence from the Transportation Sector." *American Economic Journal: Economic Policy*, 6(3): 1-29, 2014.

Nicholas Burger, Daniel Kaffine and Bob Yu. "Did California's hand-held cell phone ban reduce accidents?" *Transportation Research Part A*, 66(1): 162-172, 2014.

Harrison Fell and Daniel Kaffine, "Can decentralized planning really achieve first-best in the presence of environmental spillovers?" *Journal of Environmental Economics and Management*, 68(1): 46-53, 2014.

Daniel Kaffine. "Scrap prices, waste and recycling policy." *Land Economics*, 90(1): 169-180, 2014.

Antonio Bento, Jonathan Hughes, and Daniel Kaffine. "Carpooling and driver responses to fuel price changes: Evidence from traffic flows in Los Angeles." *Journal of Urban Economics*, 77(1):41-56, 2013.

Daniel Kaffine, Brannin McBee and Jozef Lieskovsky. "Emissions savings from wind power generation in Texas." *Energy Journal*, 34(1):155-175, 2013.

Kaylee Acuff and Daniel Kaffine. "Greenhouse gas emissions, waste and recycling policy." *Journal of Environmental Economics and Management*, 65(1): 74-86, 2013.

Antonio Bento, Sofia Franco, and Daniel Kaffine. "The welfare effects of anti-sprawl policies in the presence of urban decline." *Agricultural and Resource Economics Review* 40(3): 439-450, 2011.

Antonio Bento, Sofia Franco, and Daniel Kaffine. "Effectiveness of housing revitalization subsidies in the presence of zoning." *Regional Science and Urban Economics*, 41(3):196-206, 2011.

Bo Yu and Daniel Kaffine. "Blue Laws, DUIs and alcohol related accidents: Regression discontinuity evidence from Colorado." *The Journal of Economics*, 27(1):21-38, 2011.

Antonio Bento, Sofia Franco, and Daniel Kaffine. "Is there a double-dividend from anti-sprawl policies?" *Journal of Environmental Economics and Management*, 61(2):135-152, 2011

Daniel Kaffine and Christopher Costello, "Unitization of spatially-connected renewable resources." *The B.E. Journal of Economic Analysis & Policy*, 11(1):Article 15, 2011.

Daniel Kaffine and Chris Worley. "The Windy Commons?" *Environmental and Resource Economics*, 47(2):151-172, 2010.

Christopher Costello and Daniel Kaffine. "Marine Protected Areas in spatial property rights fisheries." *Australian Journal of Agricultural and Resource Economics* 54(3):321-341, 2010.

Antonio Bento, Sofia Franco, and Daniel Kaffine. "Efficiency and spatial impacts of development taxes: The critical role of alternative revenue-recycling schemes." *American Journal of Agricultural Economics* 91(5):1304-1311, 2009.

Daniel Kaffine. "Quality and the Commons: The Surf Gangs of California." *Journal of Law and Economics*, 52(4):727-743, 2009.

Nicholas Burger and Daniel Kaffine. "Gas prices, traffic, and freeway speeds in Los Angeles." *Review of Economics and Statistics*, 91(3):652-657, 2009.

Christopher Costello and Daniel Kaffine. "Natural resource use with limited-tenure property rights." *Journal of Environmental Economics and Management*, 55(1):20-36, 2008.

Heidi Albers, Michael Goldbach, and Daniel Kaffine. "Implications of agricultural policy for species invasion in shifting cultivation systems." *Environment and Development Economics*, 11(4):429-452, 2006.

Antonio Bento, Sofia Franco, and Daniel Kaffine. "The efficiency and distributional impacts of alternative anti-sprawl policies." *Journal of Urban Economics*, 59(1):121-141, 2006.

Book Chapters

Christopher Worley and Daniel Kaffine. "Spatial Diversification of Wind Farms: System Reliability and Private Incentives." *Wind Farm: Technical Regulations, Potential Estimation and Siting Assessment* ed. Gaston Orlando Suvire, InTech Publishing, 2011.

Other Publications

Edward Balistreri, Daniel Kaffine and Hidemichi Yonezawa. "Consumption rebound could undermine border carbon-adjustment charges." *Nature Correspondence* 560, 553 (2018)

Daniel Kaffine and Patrick O'Reilly. "What Have We Learned About Extended Producer Responsibility in the Past Decade? A Survey of the Recent EPR Economic Literature." *OECD Environment Directorate, Working Party on Resource Productivity and Waste ENV/EPOC/WPRPW (2013)7/FINAL*. Paris: Organisation for Economic Co-operation and Development, 2015.

Daniel Kaffine, Brannin McBee, and Jozef Lieskovsky. "Empirical estimates of emissions avoided from wind power generation." *USAEE Dialogues* 19(1), 2011.

Heidi Albers, Amy Ando, and Daniel Kaffine. "Land trusts in the United States: Analyzing abundance." *Resources*, 154:9-13, 2004.

Working Papers and Papers in Review

Edward Balistreri, Daniel Kaffine and Hidemichi Yonezawa, "Optimal environmental border adjustments under the General Agreement on Tariffs and Trade." Revisions requested, *Environmental and Resource Economics*, 2016.

Daniel Kaffine. "Microclimate effects of wind farms on local crop yields." Revisions requested, *Journal of Environmental Economics and Management*, 2018

Daniel Kaffine and Brannin McBee. "Intermittency and CO2 reductions from wind energy." Submitted, 2018.

Harrison Fell, Daniel Kaffine and Kevin Novan. "Emissions, transmission, and the environmental value of wind" Working Paper, 2018

Book Reviews

The Politics of the Environment: Ideas, Activism, Policy, (by Neil Carter), book review by Daniel Kaffine, *Energy Journal* 29(3) 2008, 180-182

Awards

Stanford Calderwood Teaching Excellence Award, 2015. (CU)

Lone Mountain Fellowship, PERC. Summer 2011, Summer 2014.

Mineral and Energy Economics Program Excellence in Teaching Award, AY 2008-2009, 2009-2010, 2010-2011. Undergraduate Program Excellence in Teaching Award AY 2009-2010, 2010-2011, 2011-2012, 2012-2013. (CSM)

Outstanding Faculty Member of the Year, 2013. (CSM)

Summer internship program, Resources For the Future, 2003.

National Science Foundation IGERT Fellowship. Economics and Environmental Science Fellow, 2002-2007.

Society of Professional Journalism: 2001 Mark of Excellence Award, Region 6 Winner – National Finalist, General Column Writing.

Presentations

Good neighbors? Microclimate impacts of wind farms on crop yields, 2018. Iowa State University, Department seminar, Ames, Iowa.

Emissions, Transmission, and the Environmental Value of Wind, 2018. 6th World Congress of Environmental and Resource Economists. Gothenburg, Sweden.

Emissions, Transmission, and the Environmental Value of Wind, 2018. Penn State, EEEP seminar, College Station, Pennsylvania.

Good neighbors? Microclimate impacts of wind farms on crop yields, 2017. Montana State University, department seminar, Bozeman, Montana.

Good neighbors? Microclimate impacts of wind farms on crop yields, 2017. University of California, Davis, DEEP seminar, Davis, California.

Good neighbors? Microclimate impacts of wind farms on crop yields, 2017. Western Economic Association International 92nd Annual Conference, San Diego, California.

Intermittency and CO2 reductions from wind energy, 2017. Western Economic Association International 92nd Annual Conference, San Diego, California.

Good neighbors? Microclimate impacts of wind farms on crop yields, 2017. 6th AERE Summer Conference, Pittsburgh, Pennsylvania.

Good neighbors? Microclimate impacts of wind farms on crop yields, 2017. Workshop on Environmental and Energy Policy, Logan, Utah.

Intermittency and CO2 reductions from wind energy, 2017. Economics of Water and Energy Workshop, San Diego, California.

Energy efficiency and emission intensity standards, 2016. Research Roundtable, Searle Center, Northwestern School of Law, Chicago, Illinois.

Natural Resource Federalism, 2016. Payne Institute Conference, Denver, Colorado.

Natural Resource Federalism, 2015. 15th Occasional California Workshop on Environmental and Natural Resource Economics, Santa Barbara, California.

Energy efficiency and emission intensity standards, 2015. 4th AERE Summer Conference, San Diego, California.

Natural Resource Federalism, 2014. PERC Lone Mountain Fellow Presentation, Bozeman, Montana.

When is Increasing Consumption of Common Property Second Best? Sorting, Congestion and Entry in the Commons, 2013. TREE seminar, Research Triangle, NC.

When is Increasing Consumption of Common Property Second Best? Sorting, Congestion and Entry in the Commons, 2013. Colorado State University, DARE department seminar, Fort Collins, CO.

Think locally, act locally: Can decentralized planning really achieve first-best in the presence of environmental spillovers? 2013. CU Environmental and Resource Economics Workshop, Vail, Colorado.

When is Increasing Consumption of Common Property Second Best? Sorting, Congestion and Entry in the Commons? 2013. 14th Occasional California Workshop on Environmental and Natural Resource Economics, Santa Barbara, California.

When is Increasing Consumption of Common Property Second Best? Sorting, Congestion and Entry in the Commons, 2013. LAMETA seminar, Montpellier, France.

A simple Monte Carlo approach to examine sample robustness in growth regressions, 2012. University of Wyoming, Department of Economics and Finance seminar, Laramie, Wyoming.

The suboptimal nature of applying Pigouvian rates as border adjustments, 2012. 2nd AERE Summer Conference, Asheville, North Carolina.

The suboptimal nature of applying Pigouvian rates as border adjustments, 2012. 13th Occasional California Workshop on Environmental and Natural Resource Economics, Santa Barbara, California.

Wind power and split estate, 2011. PERC Lone Mountain Fellow Presentation, Bozeman, Montana.

Emissions savings from wind power generation: Evidence from Texas, California and the Upper Midwest, 2011. 1st AERE Summer Conference, Seattle, Washington.

Least-cost policies for waste reduction in the presence of upstream greenhouse gas externalities, 2010. CU Environmental and Resource Economics Workshop, Vail, Colorado.

Unintended consequences of allowing solo hybrid drivers into HOV lanes: Evidence from the Clean Air Stickers Program in California, 2010. 4th World Congress of Environmental and Resource Economists. Montreal, Canada.

Marine Protected Areas in spatial property rights fisheries, 2009. Innovations in Property Rights for Fisheries Management, PERCshop, Santa Barbara, California.

Marine Protected Areas in spatial property rights fisheries, 2009. 12th Occasional California Workshop on Environmental and Natural Resource Economics, Santa Barbara, California.

The Windy Commons? 2009, Colorado State University, DARE department seminar, Fort Collins, CO

The Welfare Effects of Anti-Sprawl Policies: The Critical Significance of Revenue-Raising, 2009, AERE sessions at AAEEA meetings, Milwaukee, Wisconsin

The Windy Commons? 2009, Cornell University AEM department seminar.

Quality and the Commons: The surf gangs of California, 2008. CU Environmental and Resource Economics Workshop. Vail, Colorado.

Can spatial property rights fix fisheries? 2008, AERE sessions at AAEEA meetings. Orlando, Florida.

Quality and the Commons: The surf gangs of California, 2008. 11th Occasional California Workshop on Environmental and Natural Resource Economics. Santa Barbara, California.

Can spatial property rights fix fisheries? 2007, Baja Biocomplexity Workshop. Santa Barbara, California.

Spatial property rights and optimal harvest of a renewable resource, 2006. Baja Biocomplexity Workshop. La Paz, Baja California Sur, Mexico.

Spatial property rights and optimal harvest of a renewable resource, 2006. 9th Occasional California Workshop on Environmental and Natural Resource Economics. Santa Barbara, California.

Gas prices, traffic, and freeway speeds in Los Angeles, 2006. CU Environmental and Resource Economics Workshop. Vail, Colorado.

Natural resource use with limited-tenure property rights, 2006. 3rd World Congress of Environmental and Resource Economists. Kyoto, Japan.

Professional Activities

Associate Editor: *European Economic Review* 2018-, *Resource and Energy Economics* 2015-

Conferences: Co-Chair of Association of Environmental and Resource Economists (AERE) Summer Conference 2016, Program Committee for AERE Summer Conference 2011-

Editorial Council: *Journal of the Association of Environmental and Resource Economists* 2014-, *Journal of Environmental Economics and Management* 2015-

Membership: Association of Environmental and Resource Economists, American Economic Association

Referee: *American Economic Journal: Economic Policy, American Journal of Agricultural Economics, Canadian Journal of Economics, Coastal Management Journal, Conservation Biology, Eastern Economics Journal, Ecological Economics, Economic Inquiry, Economics Bulletin, Empirical Economics, Energy Economics, Energy Journal, Energy Policy, Energy Systems, Environmental and Resource Economics, Environmental Science and Technology, European Economic Review, International Economic Review, Journal of Applied Econometrics, Journal of the Association of Environmental and Resource Economists, Journal of Benefit-Cost Analysis, Journal of Development Economics, Journal of Economic History, Journal of Environmental Economics and Management, Journal of Environmental Management, Journal of Industrial Economics, Journal of Institutional and Theoretical Economics, Journal of Policy Analysis and Management, Journal of Public Economics, Journal of Regional Science, Journal of Urban Economics, Operations Research, Land Economics, Papers in Regional Science, Regional Science and Urban Economics, Resource and Energy Economics, Review of Economics and Statistics, Review of Environmental Economics and Policy, Scandinavian Journal of Economics, Transportation Research Part A, World Bank Economic Review*

Courses Taught

University of Colorado Boulder

Undergraduate

ECON 3535 Natural Resource Economics

ECON 4848 Applied Econometrics

Graduate

ECON 8535 Environmental Economics I

Colorado School of Mines

Undergraduate

EBGN 340 Energy and Environmental Policy

EBGN 409 Mathematical Economics

EBGN 470 Environmental Economics

Graduate

EBGN 509 Mathematical Economics

EBGN 570 Environmental Economics

Thesis Supervision – Primary Advisor

Christopher Worley, PhD CSM (Regulatory Analyst, Gov.'s Energy Office (CO), Spring 2011)

Kaylee Acuff, PhD CSM (CFO, MTB, Spring 2013)

Michael Rice, PhD CSM (Senior Quantitative Developer, SourceGas, Spring 2014)

Peifang Yang, PhD CSM (Researcher, China University of Petroleum (Beijing) Spring 2014)

Patrick Gourley, PhD CU (Assistant Professor, University of New Haven, Spring 2016)

Alexander Hill, PhD CU (Clinical Assistant Professor, Arizona State University, Spring 2017)

Bentley Clinton, PhD CU (Postdoctoral Associate, MIT Energy Initiative, Summer 2017)

Seamus Li, PhD CU (Assistant Professor, Hamline University, Spring 2018)

Grants

“Recycling, Solid Waste, and Public Policy,” Alcoa Foundation, 2010-2012 (\$370,000), co-PI

“Minimizing social and economic impacts of increased post-fire debris-flow occurrence, including climate change effects,” Joint Fire Science Program, DOI, 2012-2014 (\$263,564), PI

“Balancing ecosystem services and resource extraction.” EPA/USGS, 2012-2014. (\$150,000), co-PI

“Good Neighbors: Legal, economic and natural science analyses of wind plant impacts and interactions.” NSF, 2014-2016 (\$248,673), co-PI

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