

Michael J. Roberts

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Positions

Professor, University of Hawaii at Manoa 2016–present.

Fellow, University of Hawaii Economic Research Organization 2013–present.

Associate Professor, University of Hawaii at Manoa 2012–2016.

Affiliate, Sea Grant, University of Hawaii at Manoa, 2012–present.

Associate Professor, North Carolina State University 2011–2012.

Affiliate, Center for Environmental and Resource Economic Policy, 2008–2012.

Assistant Professor, North Carolina State University 2008–2011.

Adjunct Professor, Johns Hopkins School of Advanced International Studies, 2005–2007.

Economist, US Department of Agriculture, Economic Research Service, 2000–2008.

Education

Ph.D. Agricultural and Resource Economics, University of California at Berkeley, December 2000.

Dissertation

Hotelling Reconsidered: The Implications of Asset Pricing Theory on Natural Resource Price Trends

Committee: Peter Berck (Chair), Jeffrey Perloff and Paul Gertler

M.A. Statistics, University of California at Berkeley, December 2000.

M.S. Applied Economics, Montana State University, August 1994.

B.A. Quantitative Economics and Decision Sciences, University of California at San Diego, June 1992.

Contracts & Grants

(Pending) National Science Foundation Proposal 1639539, "INFEWS/T1 Leveraging complementarities in the nexus of food, energy and water to achieve an efficient renewable energy system." PI. Requested amount: \$3 Mil. Submitted March 2017.

(Pending) National Science Foundation Proposal 1639539, "INFEWS/T1 Leveraging complementarities in the nexus of food, energy and water to achieve an efficient renewable energy system." PI. Requested amount: \$3 Mil. Submitted March 2017.

Sea Grant. Title: "Predicting Hawaii Water Demand Under Climate Change." 2016-2018. Award amount \$65,022 plus 2 years GRA funding (equivalent total about \$120,000). With Daniele Spirandelli and Kimberly Burnett.

Water Resources Research Center, UH Mānoa. Title: "Toward an understanding of residential water conservation behaviors on Oahu." 2015-2016. Award amount \$26,126. With Daniele Spirandelli and Kimberly Burnett.

Lawrence Berkeley National Laboratories. Title: "Implicit Discount Rates and the Energy Paradox-Extension." 2015. Award amount: \$49,996.

University of Hawai'i Sea Grant. Project development grant. Title: "Revisiting the Energy Paradox." 2015. \$10,000.

Lawrence Berkeley National Laboratories. Title: "Implicit Discount Rates and the Energy Paradox." 2014. Award amount: \$48,234.

University of Hawai'i Sea Grant. Project development grant. Title: "Preliminary investigations into energy issues." 2014. \$10,000.

National Science Foundation, proposal 0962559. Title: "Food Price Spikes in a Warming World: Estimating Risks and Policy Responses." Co Principal Investigators are Wolfram Schlenker of Columbia University and David Lobell of Stanford University. 2010-2013. Award amount: \$700,682.

Department of Energy Competitive Grant, No. DE-FG02-08ER64640. Title: "Statistical Methods in Integrated Assessment Models of Climate Change: Applications to Agriculture and Energy Systems." Co Principal Investigators are Wolfram Schlenker of Columbia University and Maximillian Auffhammer of UC Berkeley. Grant is being administered by the National Bureau of Economic Research. 2008-2011. Award amount: \$351,433.

Publications

Journal Articles

Roberts, Michael J., Noah O. Braun, Thomas R. Sinclair, David B. Lobell, and Wolfram Schlenker (2017). "Comparing and Combining Process-based Crop Models and Statistical Models with Some Implications for Climate Change." *Environmental Research Letters* Forthcoming.

Seifer, Christopher, Michael J. Roberts, David B. Lobell (2017). "Continuous Corn and Soybean Yield Penalties across Hundreds of Thousands of Fields," *Agronomy Journal* 109(2): 1-8.

Kirwan, Barrett and Michael J. Roberts (2016). "Who Really Benefits from Agricultural Subsidies?" *American Journal of Agricultural Economics* 98(4): 1095-1113.

Urban, Daniel, Michael J. Roberts, Wolfram Schlenker, David Lobell (2015). "The Effects of Extremely Wet Planting Conditions on Maize and Soybean Yields." *Climatic Change* 130(2):247-260.

Livingston, Michael, Michael J. Roberts, and Yue Zhang (2015). "Optimal Sequential Plantings of Corn and Soybeans Under Price Uncertainty." *American Journal of Agricultural Economics* 97(3):855-878.

Lobell, David B., Michael J. Roberts, Wolfram Schlenker, Noah Braun, Bertis B. Little, Roderick M Rejesus, and Graeme L. Hammer (2014). "Greater sensitivity to drought accompanies maize yield increase in the US Midwest." *Science* 344 (6183): 516-519.

- Roberts, Michael J. and Wolfram Schlenker (2013). "Identifying Supply and Demand Elasticities of Agricultural Commodities: Implications for the US Ethanol Mandate." *American Economic Review* 103(6): 2265-95.
- Schlenker, Wolfram, Michael J. Roberts and David B. Lobell (2013). "US Maize Adaptability." *Nature Climate Change* 3(8): 690-691.
- Lobell, David B., Graeme L. Hammer, Greg McLean, Carlos Messina, Michael J. Roberts, and Wolfram Schlenker (2013). "The critical role of extreme heat for maize production in the United States." *Nature Climate Change* 3(5): 497-501.
- Roberts, Michael J., Wolfram Schlenker and Jonathan Eyer (2013). "Agronomic Weather Measures in Econometric Models of Crop Yield with Implications for Climate Change." *American Journal of Agricultural Economics* 95(2): 236-243.
- Fisher, Anthony, Michael Hanemann, Michael J. Roberts and Wolfram Schlenker (2012). "The Economic Impacts of Climate Change: Evidence from Agricultural Output and Random Fluctuations in Weather: Comment." *American Economic Review* 102(7): 3749-3760.
- Urban, Daniel, Michael J. Roberts, Wolfram Schlenker and David B. Lobell (2012). "Projected temperature changes indicate significant increase in interannual variability of U.S. maize yields." *Climatic Change* 112(2), pp 525-546.
- Roberts, Michael J. and Wolfram Schlenker (2009). "World Supply and Demand of Food Commodity Calories." *American Journal of Agricultural Economics* 91(5), pp. 1235-1242.
- Schlenker, Wolfram and Michael J. Roberts (2009). "Nonlinear temperature effects indicate severe damages to U.S. crop yields under climate change." *Proceedings of the National Academy of Sciences* 106(37), pp.15594-15598.
- Roberts, Michael J., David Schimmelpfennig, Michael Livingston, and Elizabeth Ashley (2009). "Estimating the Value of an Early-Warning System." *Review of Agricultural Economics* 31(2), pp. 303-329.
- Key, Nigel and Michael J. Roberts (2009). "Nonpecuniary Benefits to Farming: Implications for Supply Response to Decoupled Payments." *American Journal of Agricultural Economics* 91(1), pp. 1-18. (Lead article)
- O'Donoghue, Erik, Michael J. Roberts and Nigel Key (2009). "Did the Federal Crop Insurance Act Alter Farm Enterprise Diversification?" *Journal of Agricultural Economics* 60(1), pp. 80-104.
- Roberts, Michael J. and Nigel Key (2008). "Agricultural Payments and Land Concentration: A Semi-Parametric Spatial Regression Analysis." *American Journal of Agricultural Economics* 90(3), pp. 627-643.
- Roberts, Michael J. and Ruben Lubowski (2007). "Enduring Impacts of the Conservation Reserve Program: An Econometric Analysis." *Land Economics* 83(4), pp. 529-550.
- Key, Nigel and Michael J. Roberts (2007). "Do Government Payments Influence Farm Size and Survival?" *Journal of Agricultural and Resource Economics* 32(2), pp. 330-349.
- Key, Nigel, Erik O'Donoghue and Michael J. Roberts (2006). "Risk and farm operator labor supply." *Applied Economics* 38(5), pp. 573-586.
- Schlenker, Wolfram and Michael J. Roberts (2006). "Non-linear Effects of Weather on Corn Yields." *Review of Agricultural Economics* 28(3), pp. 391-398.
- Roberts, Michael J., Nigel Key and Erik O'Donoghue (2006). "Estimating the Extent of Moral Hazard in Crop Insurance Using Administrative Data." *Review of Agricultural Economics* 28(3), pp. 381-390.

Key, Nigel and Michael J. Roberts (2006). "Government Payments and Farm Business Survival." *American Journal of Agricultural Economics* 88(2), pp. 382-392.

Roberts, Michael J. and Shawn Bucholtz (2006). "Slippage in the Conservation Reserve Program or Spurious Correlation? A Rejoinder." *American Journal of Agricultural Economics*, 88(2), pp. 512-514.

Key, Nigel, Ruben Lubowski and Michael J. Roberts (2005). "Farm-Level Production Effects from Participation in Government Commodity Programs: Did the 1996 Federal Agricultural Improvement and Reform Act Make a Difference?" *American Journal of Agricultural Economics* 87(5), pp. 1211-19.

Kirwan, Barrett, Ruben Lubowski, and Michael J. Roberts (2005). "How Cost-Effective are Land Retirement Auctions? Estimating the Difference between Payments and Willingness to Accept in the Conservation Reserve Program." *American Journal of Agricultural Economics* 87(5), pp. 1239-47.

Roberts, Michael J. and Shawn Bucholtz (2005). "Slippage in the Conservation Reserve Program or Spurious Correlation? A Comment." *American Journal of Agricultural Economics* 87(1), pp. 244-250.

Roberts, Michael J. and Nigel Key (2005). "Losing Under Contract: Transaction-Cost Externalities and Spot Market Disintegration." *Journal of Agricultural and Food Industrial Organization*, 3(2), article 2, 17 pp. <http://www.bepress.com/jafio/vol13/iss2/art2>.

Roberts, Michael J., Barrett Kirwan, and Jeffrey Hopkins (2003). "The Incidence of Government Program Payments on Agricultural Land Rents: The Challenges of Identification." *American Journal of Agricultural Economics* 85(3), pp 762-769.

Roberts, Michael J. and Nigel Key (2003). "Who Benefits from Government Farm Payments? Relationships between Payments Received and Farm Household Well-Being." *Choices Magazine* 18(3), pp. 7-14.

Berck, Peter and Michael Roberts (1996). "Natural Resource Prices: Will They Ever Turn Up?" *Journal of Environmental Economics and Management* 31(1), pp. 65-78.

Working Papers

Jandoc, Karl and Michael J. Roberts. "Balancing Opportunities and Costs in Hawai'i's Increasingly Green Grid." in *Perspectives on the Development of Energy and Mineral Resources—Hawai'i, Mongolia and Germany*. Edited by Dick Pratt, Soyombo Printing, Monogolia, 2016.

Brucal, Arlan and Michael J. Roberts. "Can Energy Efficiency Standards Reduce Prices and Improve Quality? Evidence from the US Clothes Washer Market." Under Review.

Roberts, Michael J. and A. Nam Tran. "Commodity Price Adjustment in a Competitive Storage Model with an Application to US Biofuel Policies." Under review.

Tran, A. Nam, David Lobell, Michael J. Roberts and Wolfram Schlenker, Jarrod R. Welch. "Commodity Prices and Volatility in Response to Anticipated Climate Change." Under review.

Roberts, Michael J., Erik O'Donoghue, and Nigel Key. "Separating Moral Hazard from Adverse Selection: Evidence from the U.S. Federal Crop Insurance Program."

Hellerstain, Daniel, Nathaniel Higgins, and Michael J. Roberts. "Using Quotas to Enhance Competition in Asymmetric Auctions: A Comparison of Theoretical and Experimental Outcomes."

Letters

Lobell, David B., Graeme L. Hammer, Greg McLean, Carlos Messina, Michael J. Roberts, and Wolfram Schlenker (2014). "Reply to 'Temperature and drought effects on maize yield'." *Nature Climate Change* 4, 234.

Schlenker, Wolfram and Michael J. Roberts (2009). "Reply to Meerburg *et al.*: Growing areas in Brazil and the United States with similar exposure to extreme heat have similar yields." *Proceedings of the National Academy of Sciences* 106(43), E121.

Reports

Hellerstein, Daniel, Nathaniel Higgins and Michael J. Roberts. "Options for Improving Conservation Programs: Insights from Auction Theory and Economic Experiments." Economic Research Report No 181, US Department of Agriculture, Economic Research Service, January 2015, 53pp.

Roberts, Michael J. "Extreme Weather Events and Climate Change: Implications for Agriculture." Report prepared for the Organization for Economic Cooperation and Development, June 2013.

Noel Gollehon, Marcel Aillery, Glenn Schiabile, Michael J. Roberts and Bill Quinby. *Irrigation Water Reductions from Federal Actions: Economic Losses and Mitigation Strategies*. Report to Congress, produced under contract with USDA Risk Management Agency. Final report delivered to USDA RMA, January 2009. 68 pp.

Key, Nigel and Michael J. Roberts. *Commodity Payments, Farm Business Survival, and Farm Size Growth*. Economic Research Report No. 51, US Department of Agriculture, Economic Research Service, November 2007. 41 pp.

Lubowski, Ruben N., Shawn Bucholtz, Roger Claassen, Michael J. Roberts, Joseph Cooper, Anna Gueorguieva, and Robert Johansson. *Environmental Effects of Agricultural Land-Use Change: The Role of Economics and Policy*. Economic Research Report No. 25, 81 pp. US Department of Agriculture, Economic Research Service, August 2006. 75 pp.

Lubowski, Ruben N., Marlow Vesterby, Shawn Bucholtz, Alba Baez, and Michael J. Roberts. *Major Uses of Land in the United States, 2002*. With Marlow Vesterby Ruben Lubowski, Shawn Bucholtz, and Alba Baez. Economic Information Bulletin No. 14, US Department of Agriculture, Economic Research Service, May 2006. 47 pp.

Roberts, Michael J., David E. Schimmelpfennig, Michael Livingston, and Elizabeth Ashley. *The Value of Plant Disease Early-Warning Systems: A Case Study of USDA's Soybean Rust Coordinated Framework*. Economics Report No. 18, US Department of Agriculture, Economics Research Service, April 2006. 38 pp.

Roberts, Michael J. "Effects of Government Payments on Land Rents, Distribution of Payment Benefits, and Production." Chapter 6 in *Decoupled Payments in a Changing Policy Setting*. Edited by Mary E. Burfisher and Jeffrey Hopkins. Agricultural Economic Report No. 838, US Department of Agriculture, Economic Research, October 2004. pp 49-54.

Patrick Sullivan, Daniel Hellerstein, Leroy Hansen, Robert Johansson, Steven Koenig, Ruben Lubowski, William McBride, David McGranahan, Michael J. Roberts, Stephen Vogel, and Shawn Bucholtz. *The Conservation Reserve Program: Economic Implications for Rural America*. Agricultural Economic Report No. 834, US Department of Agriculture, Economic Research, October 2004. 106 pp.

Livingston, Michael, Rob Johansson, Stan Daberkow, Michael J. Roberts, Mark Ash, and Vince Breneman. *Economic and Policy Implications of Wind-Borne Entry of Asian Soybean Rust into the United States*. Electronic Outlook Report No. OCS-04D-02, US Department of Agriculture, Economic Research Service, April 2004. 22 pp.

Patrick Sullivan, Daniel Hellerstein, Leroy Hansen, Robert Johansson, Steven Koenig, Ruben Lubowski, William McBride, David McGranahan, Michael J. Roberts, Stephen Vogel, and Shawn Bucholtz. *The Conservation Reserve Program. Economic and Social Impacts on Rural Counties*. Report to Congress. U.S. Department of Agriculture, Economic Research Service. Delivered in January, 2004. 112 pp.

Burfisher, Mary, Jeffrey Hopkins, Mary Ahearn, Roberts Collender, Joe Dewbre, Xinshen Diao, John Dyck, Anne Effland, David Harrington, Robert Hoppe, Penelope Korb, Shiva Makki, Ashok Mishra, Michelle Morehart, Michael Roberts, Terry Roe, Agapi Somwaru, Monte Vandever, Paul Westcott, C. Edwin Young. *Decoupled Payments: Household Income Transfers in Contemporary U.S. Agriculture*. Agricultural Economic Report No. 822, U.S. Department of Agriculture, February 2003. 29 pp.

Roberts, Michael J., Craig Osteen and Meredith Soule. *Risk, Government Programs, and the Environment*. Technical Bulletin No. 1908, US Department of Agriculture, Economic Research Service, March 2004. 51 pp.

Book Chapters and Proceedings

Roberts, Michael J. and Karl Jandoc. "Balancing Opportunities and Costs in Hawai'i's Increasingly Green Grid." In Proceedings from the International Conference on Perspectives on the Development of Energy and Mineral Resources, Hawai'i, Mongolia and Germany, *forthcoming*. Online version: <http://socialsciences.hawaii.edu/conference/demr2015/index.html>.

Roberts, Michael J. "Agriculture." In *Environmental and Natural Resource Economics: An Encyclopedia*, Eds Timothy C. Haab and John C. Whitehead, ABC-CLIO, Santa Barbara, 2014.

Berry, Steven T., Michael J. Roberts and Wolfram Schlenker. "Corn Production Shocks in 2012 and Beyond: Implications for Harvest Volatility." In NBER book *The Economics of Food Price Volatility*, Eds: Jean-Paul Chavas, David Hummels, and Brian Wright, University of Chicago Press, 2014.

Roberts, Michael J. and Wolfram Schlenker. "Is Agricultural Production Becoming More or Less Sensitive to Extreme Heat? Evidence from U.S. Corn and Soybean Yields." In NBER book *The Design and Implementation of US Climate Policy*, Editors: Don Fullerton and Catherine Wolfram, University of Chicago Press, 2012.

Roberts, Michael J. and Wolfram Schlenker. "The Evolution of Heat Tolerance of Corn: Implications for Climate Change." In NBER book *The Economics of Climate Change: Adaptations Past and Present*, Editors: Gary Libecap and Richard Steckel, University of Chicago Press, 2011.

Roberts, Michael J. and Wolfram Schlenker. "Why Climate Change Impacts on Agriculture Could be Economically Substantial." In *Is Economic Growth Sustainable?* Ed. Geoffrey Heal. International Economic Association conference volume no. 148, Palgrave Macmillan, 2010.

Berck, Peter and Michael J. Roberts. "History of Energy Prices." In *Concise Encyclopedia of History of Energy*. Academic Press, 2009, pp. 241-250.

Schlenker, Wolfram and Michael J. Roberts. "Non-linear Effects of Weather on U.S. Crop Yields, Implications for Climate Change, and Why these Effects Matter for Developing Countries." Berlin Workshop Series 2008 (World Bank and InWEnt).

Key, Nigel and Michael J. Roberts. "Financial Market Imperfections and Structural Change in Agriculture." In *Progress in Agricultural Economics*. Nova Science Publishers, New York, 2005.

Gollehon, Noel, Michael J. Roberts and Marcel Aillery. "Comparative Assessment of Risk Mitigation Options for Irrigated Agriculture." In *Water Rights and Related Supply Issues, Proceedings of the 2004 Water management Conference*. U.S. Committee on Irrigation and Drainage. Denver, 2004.

Berck, Peter and Michael J. Roberts. "History of Energy Prices." In *Encyclopedia of Energy*, Volume 5. Elsevier Inc. 2004.

Roberts, Michael J. and Nigel Key. "Does Liquidity Matter to Agricultural Production?" In R.E. Just and R.D. Pope eds., *A Comprehensive Assessment of the Role of Risk in U.S. Agriculture*. Boston, MA: Kluwer Academic Publishers. 2002.

Conference Papers (not otherwise published)

Tran, Nam A. and Jarrod R. Welch, David Lobell, Michael J. Roberts, and Wolfram Schlenker. "Commodity Prices and Volatility in Response to Anticipated Climate Change." A paper presented at the Agricultural and Applied Economics Association Annual Meeting, Seattle, WA, August 12-14, 2012.

Roberts, Michael J. and A. Nam Tran. "Commodity Price Adjustment in a Competitive Storage Model with an Application to the US Biofuel Policies." A paper presented at the Agricultural and Applied Economics Association Annual Meeting, Seattle, WA, August 12-14, 2012.

Chen, Xaiomei (Barbara) and Michael J. Roberts. "Discounting Investments that Save Energy Resources." A paper presented at Camp Resources XIX, Wrightsville Beach, NC, August 6-7, 2012.

Roberts, Michael J. and Jesse B. Tack. "A Mixed Effects Model of Crop Yields for Purposes of Insurance Premium Determination." A paper presented at the Agricultural and Applied Economics Association Annual Meeting, Pittsburg, PA, July 24-26, 2011.

Roberts, Michael J. and Jesse B. Tack. "A Mixed Effects Model of Crop Yields for Purposes of Insurance Premium Determination." A paper presented at the Agricultural and Applied Economics Association Annual Meeting, Pittsburg, PA, July 24-26, 2011.

Brimlow, Jacob and Michael J. Roberts. "Using Enrollment Discontinuities to Estimate the Effect of Voluntary Conservation on Local Land Values." A paper presented at the Agricultural and Applied Economics Association Annual Meeting, July 25-27, 2010, Denver, CO.

Kirwan, Barrett and Michael J. Roberts. "Who Really Benefits from Agricultural Subsidies." Agricultural and Applied Economics Association Annual Meeting, July 25-27, 2010, Denver, CO.

Key, Nigel, Barrett Kirwan and Michael J. Roberts. "Production Effects of Decoupled Commodity Program Payments: An Instrumental Variables Approach." Agricultural and Applied Economics Association Annual Meeting, July 26-28, 2009, Milwaukee, WI.

Livingston, Michael, Michael J. Roberts, and John Rust. "Optimal Corn and Soybean Rotations." American Agricultural Economics Association Annual Meeting, July 27-29, 2008, Orlando, FL.

Roberts, Michael J. and Nigel Key. "Did the Baby Boom Cause the Farm-Size Boom?" American Agricultural Economics Association Annual Meeting, July 27-29, 2008, Orlando, FL.

Roberts, Michael J., Erik O'Donoghue and Nigel Key. "Does Crop Insurance Affect Crop Yields?" American Agricultural Economics Association 2007 Annual Meeting, July 29-August 1, 2007, Portland, OR.

Lubowski, Ruben, Roger Claassen and Michael J. Roberts. "Extent, Location, and Characteristics of Land Cropped Due to Insurance Subsidies." American Agricultural Economics Association 2005 Annual meeting, July 24-27, Providence, RI.

Just, David R. and Michael J. Roberts. "The Illusion of Control, Cognitive Dissonance and Farmer Perception of GM Crops." American Agricultural Economics Association 2004 Annual meeting, August 1-4, Denver, CO.

Kirwan, Barrett, Ruben N. Lubowski and Michael J. Roberts. "Estimating the Average Rental Premium in the Conservation Reserve Program." AERE Session of American Agricultural Economics Association 2004 Annual meeting, August 1-4, Denver, CO.

Roberts, Michael J., O'Donoghue, Erik J. and Nigel Key. "Chemical and Fertilizer Applications in Response to Crop Insurance: Evidence from Census Micro Data." American Agricultural Economics Association 2003 Annual meeting, July 27-30, Montreal, Canada.

Roberts, Michael J. and Nigel Key. "Risk and Structural Change in Agriculture: How Income Shocks Influence Farm Size." American Agricultural Economics Association 2002 Annual meeting, July 28-31, Long Beach, CA

Roberts, Michael J. "Can Portfolio Theory Explain Flat and Downward Trends in Natural Resource Prices?" 2nd World Congress of Environmental and Resource Economists, Monterey, CA, June 24-27, 2002.

For a Broader Audience

"Extreme heat and droughts—a recipe for world food woes." Op-Ed for *CNN.com*. August 13, 2012.
<http://www.cnn.com/2012/08/13/opinion/roberts-crops-climate/index.html>

"A Hotter Planet Doesn't Have to Be Hungrier" Op-Ed for *Bloomberg View* and *Businessweek*. August 22, 2011.
<http://www.bloomberg.com/news/2011-08-22/hotter-planet-doesn-t-have-to-be-hungry-commentary-by-michael-j-roberts.html>

"Could Farms Survive Without Illegal Labor?" *New York Times Room for Debate*. August 18, 2011.
<http://www.nytimes.com/roomfordebate/2011/08/17/could-farms-survive-without-illegal-labor>

"Is the World Producing Enough Food?" *New York Times Room for Debate*. February 15, 2011.
<http://www.nytimes.com/roomfordebate/2011/02/15/is-the-world-producing-enough-food/>

"Can Biotech Food Cure World Hunger?" *New York Times Room for Debate*. October 26, 2009.
<http://roomfordebate.blogs.nytimes.com/2009/10/26/can-biotech-food-cure-world-hunger/>

"The Implications of Climate Change on Food Crops." *The ePerspective from Food Technology Magazine*. September 22, 2009. <http://foodtechperspective.wordpress.com/2009/09/22/implications-of-climate-change-on-food-crops/>

"Food Prices: Myth vs. Reality." *New York Times Room for Debate*. May 16, 2009.
<http://roomfordebate.blogs.nytimes.com/2009/05/16/food-prices-myths-vs-reality/>

"Why Are Food Prices Going Up?" *NC State Economist*, November/December 2008.

"The Benefits of Anticipating Direct and Indirect Implications of Global Warming." Expert opinion about the implications of climate change on North Carolina as requested by University of North Carolina Tomorrow. November 2008.

Lubowski, Ruben and Michael J. Roberts. "Land Retirement Programs May Induce Enduring Land-Use Changes." Finding in *Amber Waves*. February 2008, p. 7.

Key, Nigel and Michael J. Roberts. "Measures of Farm Size Tell Differing Stories." Data Feature in *Amber Waves*, November 2007, pp 37-37.

Key, Nigel and Michael J. Roberts. "Cropland Concentrating Faster Where Payments are Higher." Feature Article in *Amber Waves*, November 2007, pp 30-35.

Lubowski, Ruben N., Roger Claassen and Michael J. Roberts. "Agricultural Policy Affects Land Use and the Environment." *Amber Waves*. Feature Article, September 2006, pp 28-33.

Roberts, Michael J. and David E. Schimmelpfennig. "Public Information Creates Value." Feature (cover) article in *Amber Waves*, April 2006, pp. 10-15.

Ahearn, Mary Clare, Robert Collender, Mitchell Morehart and Michael Roberts. "How Do Decoupled Payments Affect Resource Allocations Within the Farm Sector?" Finding in *Amber Waves*, November 2004, pp. 8-9.

Personal weblog: *Greed, Green and Grains*. Typically features 0-3 postings per week of varying depth on issues pertaining to the intersection of economics, the environment, and agriculture, receives about 10-11,000 page views per month as of January 2015.

<http://greedgreengrains.blogspot.com/>. December 2008-present.

G-FEED weblog: *Global Food, Environment and Economic Dynamics*. An interdisciplinary group working cooperatively to understand the relationship between society and the environment. We examine regional and global scale phenomena using statistical analyses of real world data. Weblog posts receive between 100-1000 views in the first week after posting. July 2012-present.

UHERO Blog

"What a Difference a Rate Makes." May 3, 2016. <http://www.uhero.hawaii.edu/news/view/305>

"Incentives for the Utility." February 26, 2016. <http://www.uhero.hawaii.edu/news/view/303>

"Embrace Policy Experiments." February 25, 2016. <http://www.uhero.hawaii.edu/news/view/302>

"Four Years to Improve Renewable Energy." February 24, 2016. <http://www.uhero.hawaii.edu/news/view/301>

"Research Driven Energy Policy." November 5, 2015. <http://www.uhero.hawaii.edu/news/view/296>

"Net Metering Agreements in Hawai'i." July 20, 2015. <http://www.uhero.hawaii.edu/news/view/293>

"Managing a Grid with Green Energy." April 21, 2014. <http://www.uhero.hawaii.edu/news/view/275>

"The Costs and Benefits of Installing Solar PV." April 7, 2014. <http://www.uhero.hawaii.edu/news/view/274>

"Why are Hawai'i's Electricity Prices So High?" April 2, 2014. <http://www.uhero.hawaii.edu/news/view/273>

Workshop in Energy and Environmental Research (WEER) Student blog series: <http://www.uhero.hawaii.edu/news/index/category:18>

Invited Presentations

Berkeley Energy Institute, May 2017.

OECD, Seville, Spain, May 2016.

University of Otago, NZ, April 2016.

Victoria University of Wellington, NZ, April 2016.

Hawai'i Economic Association, Honolulu, February 2016.

ASSA, Boston, January 2015.

Lawrence Berkeley National Laboratory, June 2014.

UC Berkeley Energy Institute, June 2014.

University of Colorado at Denver, March 2014.

University of Paris, June 2012.

BIRS, Frontiers in Detection and Attribution of Climate Change, Banff, May 2012.

University of Hawaii, May 2012.

American Geophysical Union Science Policy Conference, Washington DC, May 2012.

University of Nebraska, April 2012.

NCSU Executive Short Course on Sustainability, April 2012.

University of Hawaii, March 2012.

Bayer Crop Science, Raleigh, March 2012.

NCSU Executive Short Course on Sustainability, March 2012.

ASSA-AERE, Chicago, January 2012.

ASSA-AAEA, Chicago, January 2012.

CRC Workshop on Lifecycle Analysis of Biofuels, Argonne National Laboratory, October 2011

USEPA/USDA/AAFC Greenhouse Gas Modeling Forum, Shepherdstown, WV, September 2011.

President's Council of Advisors on Science and Technology, Washington DC, September 2011.

Bioenergy Camp, Biobased Industry Center, Iowa State University, May 2011.

CENTRA Technology Inc., Arlington, VA, May 2011.

US Environmental Protection Agency, Washington DC, April 2011.

National Academy of Sciences Workshop on Research Impacts, Washington DC, April 2011.

American Meteorological Society, Capital Hill Climate Briefing, Washington DC, March 2011.

University of Wisconsin, Madison, March 2011.

TISS/NCSU Energy and Security Initiative, Raleigh, March 2011.

University of Washington, Seattle, February 2011.
Worldwide Responsible Accredited Production, Ft. Lauderdale, November 2010.
University of Illinois, November, 2010.
Mississippi State University, October, 2010.
Bioenergy Camp, Biobased Industry Center, Iowa State University, May 2010.
Oregon State University, April 2010.
NBER, Cambridge, Agricultural Economics Workshop, March 2010
Cornell University, January 2010
University of Maryland, October 2009.
NBER, Cambridge, Climate Change Conference, May 2009.
ASSA-AAEA, San Francisco, January 2009.
Purdue University, September, 2008.
NBER, Cambridge, Climate Change Conference, May 2008.
Yale Law School, New Haven, April 2008.
North Carolina State University, Raleigh, August 2007.
International Food Policy Research Institute. March 2007.
University of California at Davis, January 2007.
University of California at Davis, November 2006.
University of California at Berkeley, November 2006.
ASSA-AAEA, Boston, MA, January 2006.
Columbia University, New York, November, (guest lecture) 2005.
Columbia University, New York, November, (seminar) 2005.
AAEA Principal Paper, Providence, July 2005.
Resources for the Future, Washington DC, October 2004.
Washington State University, September 2004.
U.S. Environmental Protection Agency, December 2002.
ASSA-AAEA, Washington DC, January 2003.
University of California at Berkeley, September 2002.
University of Massachusetts at Amherst, March 2002.

Contributed Presentations and Posters

IEW, Cork, Ireland, May 2016.

AAEA San Francisco, CA, August 2015.

WEAI Honolulu, HI, July 2015 (4 presentations).

AERE San Diego, CA, June 2015 (2 presentations).

AERE Inaugural Annual Meeting, Seattle, WA, June 2011.

AAEA Annual Meeting, Denver, CO, July 2010 (2 presentations).

EAERE, Amsterdam, The Netherlands, June 2009.

Camp Resources, Wilmington, NC, August 2008.

AAEA Annual Meeting, Orlando, FL, July 2008 (2 presentations, 1 poster).

Heartland Environmental and Resource Economics Workshop, Ames IA, Sept 2007.

AAEA Annual Meeting, Portland, OR, July 2007 (2 presentations, 2 posters).

AAEA Annual Meeting, Long Beach, CA, July 2006 (2 presentations).

AAEA Annual Meeting, Providence, RI, July 2005 (2 presentations).

AAEA Annual Meeting, Denver, CO, July 2004 (2 presentations).

Heartland Environmental and Resource Economics Workshop, Ames IA, Sept 2003.

AAEA Annual Meeting, Montreal Canada, July 2003 (3 presentations).

AAEA Annual Meeting, Long Beach, CA, July 2002 (2 presentations).

Economics of Contracting in Agriculture, Annapolis, MD, July 2002.

2nd World Congress of Environmental and Resource Economists, Monterey, CA, Jun 2002 (2 presentations).

Annual Meeting of Risk Researchers, SERA-IEG-31, Gulf Shores, AL, March 2001.

UCSB Workshop in Environmental Economics, August 2000.

Local Presentations

UH Manoa PLAN 625 guest lecture, November 2014.

UH Manoa OCN 100 guest lecture, October 2014.

NCSU Global Issues Seminar Series, November 2010.

NCSU CEnREP Brown Bag Seminar, February 2010.

NCSU International Education Week, November 2009.

NCSU Agricultural Economics Seminar, September 2009.

NCSU Department of Forestry Seminar, October 2008.

NCSU CEnREP Brown Bag Seminar, September 2008.

At least fifteen seminar presentations USDA-ERS, 2001-2007.

Conference Discussant

AERE, San Diego, June, 2015.

ASSA-AERE, Philadelphia, January, 2014.

ASSA-AERE, Chicago, January, 2012.

AERE, Seattle, June 2011.

PERC Workshop on Payments for Ecosystem Services, Chapel Hill, November 2010.

ASSA-AERE, Atlanta, January 2010.

AAEA, Milwaukee, July 2009 (2).

NBER, Climate Change Workshop, Cambridge, May 2009.

ASSA-AERE, Boston, MA, January 2006.

AAEA-AERE, Long Beach, July 2005.

AAEA-AERE, Long Beach, July 2002.

Briefings to Policy Makers

Briefed Eldon Gould, Administrator of USDA's Risk Management Agency (RMA), the Associate Administrator and several Division Chiefs on our report on the value of information provided by the Soybean Rust Coordinated Framework. April 2006.

Briefed Kevin Shea, Deputy Administrator of USDA's Animal and Plant Health Inspection Service on the soybean rust study. April 2006.

Briefed Bill Hawks, Undersecretary of Agriculture on increasing trends in ad hoc disaster payments in agriculture. February 2003.

Scholarly and Professional Honors

Secretary's Honor Award, US Department of Agriculture, 2006.

Helios Award for Research and Policy Contribution, USDA Economic Research Service, 2005.

Outstanding Ph.D Dissertation, American Agricultural Economics Association, 2001.

Hung Wo Ching Fellowship in Econometrics, UC Berkeley, 1997.

Outstanding Master's Thesis, Honorable Mention, 1995.

Professional Service

On Campus

- UH Department of Economics, Graduate Committee 2014-2015.
- UH Department of Economics, Personnel Committee, 2013-2015.
- UH Sea Grant Personnel Committee, 2014-present.
- Steering Committee, *Ascent: Energy, Water and Sustainability*, UH Manoa, April 2014.
- UH Department of Economics, Recruitment Committee, 2013-2014.
- UH Economics Undergraduate Committee, 2013-2014, 2015-2016.
- NCSU PhD Economics Preliminary Exam Committee, 2010-2012.
- Department Team Captain, NC State Employees Combined Campaign, 2009 & 2011.
- Affiliate, Center for Environmental and Resource Economic Policy.
- Participant in the Economic Ph.D. Program Open House, Spring 2009.
- Member, Peer Teaching Review Committee for Ron Campbell's ARE 036 course.

Off Campus

- Co-Editor, *Journal of the Association of Environmental and Resource Economics*, January 2014-present.
- Co-Editor, *Journal of Environmental Economics and Management*, August 2011-present.
- Associate Editor, *American Journal of Agricultural Economics*, January 2010-2012.
- Editorial Council Member, *Journal of Agricultural and Resource Economics*, January 2012-present.
- Editorial Board, *Agricultural and Resource Economics Review*, December 2009-2013.
- Board of Directors, Northeastern Agricultural and Resource Economics Association, 2007-2008.
- Member, American Agricultural Economics Association Masters Thesis Award Committee, 2006.

Referee

- Agricultural and Forest Meteorology
- Agricultural and Resource Economics Review
- Agricultural Economics
- American Economic Review
- American Economic Journal: Economic Policy
- American Journal of Agricultural Economics
- Applied Economics
- Australian Journal of Agricultural and Resource Economics

Climatic Change
Ecological Economics
Economic Inquiry
Environmental Research Letters
Environmental and Resource Economics
European Review of Agricultural Economics
Global Environmental Change
Journal of Agricultural and Applied Economics
Journal of Agricultural and Food Industrial Organization
Journal of Agricultural and Resource Economics
Journal of Agricultural Economics
Journal of Econometrics
Journal of Economic Dynamics and Control
Journal of Economic Literature
Journal of Environmental Economics and Management
Journal of Development Economics
Journal of Natural Resources Policy Research
Land Economics
Legal Studies
Marine Resource Economics
National Science Foundation
Proceedings of the National Academy of Sciences
Resource and Energy Economics
Review of Economics and Statistics
Review of Agricultural Economics
Science
Science Advances
Weather, Climate and Society

Participation in Centers, Consortia and Institutes

Affiliate, Center for Environmental and Resource Economic Policy, 2008-present.

Member:

American Agricultural Economics Association (2000-present).

Association of Environmental and Resource Economists (2000-present, intermittently).

American Economics Association (2000-present, intermittently).

Northeastern Agricultural and Resource Economics Association (2005-present, intermittently).

European Association of Environmental and Resource Economists (2009-2010).

Courses Taught

UH Econ 696, Seminar in Energy and Environmental Economics, Spring 2015, Fall 2015.

UH Econ 638, Ph.D., Environmental Economics, Fall 2013, Fall 2014, Fall 2015.

UH Econ 358, Environmental Economics, Spring 2013, Spring 2014, Spring 2015.

UH Econ 130, Principles of Microeconomics, Spring 2013, Fall 2015.

NCSU ECG 702, Ph.D. "core" Microeconomic Theory (General Equilibrium, Risk, Game Theory), 2009-2011.

NCSU ARE 201, Principals of Economics, 2008-2012.

John's Hopkins SAIS, Econometrics (with advanced math), 2005-2007.

Students

Current Students & Research Assistants

Imelda (UH Manoa PhD, RA)

Hyun Gyu Kim (UH Manoa PhD, RA, Chair)

Nathan Demaagd (UH Manoa PhD, RA, Chair)

Andrew John Woodill (UH Manoa PhD, Chair)

Asahi Oshiro (UH Manoa PhD, Committee)

Ashley Hirashima (UH Manoa PhD, Committee)

James Jones (UH Manoa Phd, Advisee)

Tiana Tran (UH Manoa BS, Capstone Advisor)

Rick Eng (UH Manoa BA/MA, Capstone Advisor)

Likeke Aipa (UH Manoa BS, RA)

Postdoctoral Students

Solomon Hsiang, 2010, currently at UC Berkeley Goldman School.

Jarrold Welch, 2011-2013, currently with Charles River Associates.

Past Students

Sherilyn Wee (UH Manoa PhD, 2017, Committee)

Arlan Brucal (UH Manoa PhD, 2016, Chair)

Karl Jandoc (UH Manoa PhD, 2016, RA)

Anna Abbatayo (UH Manoa PhD, 2015, Committee)

Spencer Luther (Canigie Mellon BA, RA, 2014)

Jesse Franklin-Mudock (UH Manoa undergraduate RA, 2013)

Barbara Chen (NCSU PhD, 2013, Chair)

Nam Tran (NCSU PhD, 2013, Chair)

Yue Zhang (NCSU ABD, 2013, Advisor)

John Freeze (NCSU undergraduate student RA, summers 2009, 2011)

Noah Braun (NCSU undergraduate student RA, 2012-2013)

Jonathan Eyer (NCSU PhD, research assistant, 2010-2012)

Jian Wen (NCSU PhD, research assistant, 2010-2012)

Bob Dinterman (NCSU graduate student RA, summer 2010)

Hu Wu-Yueh (NCSU PhD. completed 2010, Committee)

Wilma Jackson (NCSU graduate student RA, 2008-2009)

Anton Bekkerman (NCSU PhD. completed 2009, Committee)

Jacob Brimlow (NCSU PhD. completed 2009, Committee)

Nathaniel Higgins (UMD PhD student, USDA summer intern, 2006-2007)

Ron Laschever (Northwestern PhD student, USDA summer intern 2005)

Elizabeth Ashley (UCSB PhD student, USDA summer intern 2005, 2006)

Shawn Bucholtz (UMD MA. completed 2003, committee member)

Cory Walters (WSU PhD student, USDA summer intern 2004)

Barrett Kirwan (MIT PhD student, USDA summer intern 2002)

References

Available upon request.

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http://www2.hawaii.edu/~mjrobert/main/CV_files/cv.pdf