

# NICOLAI V. KUMINOFF

## *Curriculum Vitae*

January 2019

---

Economics Department  
Main Campus  
PO BOX 879801  
Tempe, AZ 85287-9801

Office: (480) 727-9802  
Fax: (480) 965-0748  
Email: [kuminoff@asu.edu](mailto:kuminoff@asu.edu)  
Web: <http://www.public.asu.edu/~nkuminof>

<b>EDUCATION</b>	<b>DEGREE</b>	<b>YEAR</b>	<b>DISCIPLINE</b>
North Carolina State University	Ph.D.	2006	Economics
University of California, Davis	M.S.	2000	Agricultural and Resource Economics
University of California, Davis	B.S.	1999	Agricultural and Resource Economics

Dissertation: “Recovering Preferences for Public Goods from a Dual-Market Locational Equilibrium”

Advisor: V. Kerry Smith

### **PRIMARY APPOINTMENT**

2016-present Associate Professor, Arizona State University, Economics Department  
2009-2016 Assistant Professor, Arizona State University, Economics Department  
2006-2009 Assistant Professor, Virginia Tech, Agricultural and Applied Economics Department

### **SECONDARY APPOINTMENTS**

2016-present NBER Research Associate (EEE)  
2016-present Senior Sustainability Scientist, Julie Ann Wrigley Global Institute of Sustainability, ASU  
2015-2016 NBER Faculty Research Fellow (EEE)

### **AWARDS AND FELLOWSHIPS**

Dean’s Council of 100 Distinguished Scholar, Arizona State University, 2013  
John W. Teets Award for Outstanding Undergraduate Teaching, finalist, Arizona State University, 2012  
JARE Outstanding Journal Article Award, 2009  
David C. Lincoln Fellowship, Lincoln Institute of Land Policy, 2009  
Young Professional Travel Award, Australian Agricultural and Resource Economics Society, 2007  
Outstanding Dissertation Honorable Mention, American Agricultural Economics Association, 2007  
National Science Foundation, Doctoral Dissertation Research Improvement Fellowship, 2005  
Graduate Fellowship, North Carolina State University, 2001

### **EDITORIAL ACTIVITIES**

Editorial Council—*Journal of the Association of Environmental and Resource Economists* (2014-present)  
Editorial Council—*Journal of Environmental Economics and Management* (2013-present)

## PUBLICATIONS

### PAPERS IN ECONOMICS JOURNALS

- Ketcham, Jonathan, Nicolai V. Kuminoff, and Christopher Powers. "Estimating the Heterogeneous Welfare Effects of Choice Architecture." *Forthcoming in International Economic Review*. [NBER Working Paper #22732](#).
- Kuminoff, Nicolai V. 2018. "Can Understanding Spatial Equilibria Enhance Benefit Transfers for Environmental Policy Evaluation?" *Environmental and Resource Economics* 69(3): 591-608.
- Ketcham, Jonathan, Nicolai V. Kuminoff, and Christopher A. Powers. 2016. "Choice Inconsistencies among the Elderly: Evidence from Plan Choice in the Medicare Part D Program: Comment." *American Economic Review* 106(12): 3932-3961.
- Kuminoff, Nicolai V., Todd Schoellman, and Christopher Timmins. 2015. "Environmental Regulations and the Welfare Effects of Job Layoffs in the United States: A Spatial Approach." *Review of Environmental Economics and Policy* 9(2): 198-218.
- Zhang, Congwen, Kevin J. Boyle, and Nicolai V. Kuminoff. 2015. "Partial Identification of Amenity Demand Functions." *Journal of Environmental Economics and Management* 71(1), 180-197.
- Kuminoff, Nicolai V. and Jaren C. Pope. 2014. "Do "Capitalization Effects" for Public Goods Reveal the Public's Willingness to Pay?" *International Economic Review* 55(4), 1227-1250.
- Kuminoff, Nicolai V., V. Kerry Smith, and Christopher Timmins. 2013. "The New Economics of Equilibrium Sorting and Policy Evaluation Using Housing Markets." *Journal of Economic Literature* 51(4), 1007-1062 [lead article].
- Kaul, Sapna, Kevin J. Boyle, Nicolai V. Kuminoff, Christopher F. Parmeter, and Jaren C. Pope. 2013. "What Can We Learn from Benefit Transfer Errors? Evidence from 20 Years of Research on Convergent Validity." *Journal of Environmental Economics and Management* 66(1), 90-104.
- Kuminoff, Nicolai V. and Jaren C. Pope. 2013. "The Value of Land and Structures during the Great Housing Boom and Bust." *Land Economics* 89 (1), 1-29 [lead article].
- Kuminoff, Nicolai V. and Jaren C. Pope. 2012. "A Novel Approach to Identifying Hedonic Demand Parameters." *Economics Letters* 116 (3), 374-376.
- Ciliberto, Federico and Nicolai V. Kuminoff. 2010. "Public Policy and Market Competition: How the Master Settlement Agreement Changed the Cigarette Industry." *B.E. Journal of Economic Analysis and Policy: Frontiers* 10 (1), 1-46.
- Kuminoff, Nicolai V. Christopher F. Parmeter, and Jaren C. Pope. 2010. "Which Hedonic Models Can We Trust to Recover the Marginal Willingness to Pay for Environmental Amenities?" *Journal of Environmental Economics and Management* 60 (3), 145-160 [lead article].
- Kuminoff, Nicolai V. and Abdul Salam Jarrah. 2010. "A New Approach to Computing Hedonic Equilibria and Investigating the Properties of Locational Sorting Models." *Journal of Urban Economics* 67 (3), 322-335.
- Kuminoff, Nicolai V. and Ada Wossink. 2010. "Why Isn't More U.S. Farmland Organic?" *Journal of Agricultural Economics*, 61 (2), 240-258.

- Kuminoff, Nicolai V., Congwen Zhang, and Jeta Rudi. 2010. "Are Travelers Willing to Pay a Premium to Stay at a "Green" Hotel? Evidence from an Internal Meta-Analysis of Hedonic Price Premia" *Agricultural and Resource Economics Review*, 39 (3), 468-484.
- Boyle, Kevin J., Nicolai V. Kuminoff, Christopher F. Parmeter, and Jaren C. Pope. 2010. "The Benefit Transfer Challenges." *Annual Review of Resource Economics*, 2, 161-182.
- Boyle, Kevin J., Nicolai V. Kuminoff, Christopher F. Parmeter, and Jaren C. Pope. 2009. "Necessary Conditions for Valid Benefit Transfers." *American Journal of Agricultural Economics*, 91 (5), 1328-1334.
- Kuminoff, Nicolai V. 2009. "Using a Bundled Amenity Model to Estimate the Value of Cropland Open Space and Determine an Optimal Buffer Zone." *Journal of Agricultural and Resource Economics*, 34 (1), 68-90 [JARE outstanding journal article award, 2009]
- Kuminoff, Nicolai V. 2009. "Decomposing the Structural Identification of Non-Market Values." *Journal of Environmental Economics and Management*, 57 (2), 123-139 [lead article].
- Mullen, John D., Julian M. Alston, Daniel A. Sumner, Marcia T. Kreith, and Nicolai V. Kuminoff. 2005. "The Payoff to Public Investments in Pest Management R&D: General Issues and a Case Study Emphasizing Integrated Pest Management." *Review of Agricultural Economics*, 27 (4), 558-573.

#### PAPERS IN ENVIRONMENTAL SCIENCE AND POLICY JOURNALS

- Zhao, Ziaobing, Mason Gerety, and Nicolai V. Kuminoff. 2018. "Revisiting the Temperature-Economic Growth Relationship Using Global Subnational Data." *Journal of Environmental Management*. 223, 537-544.
- Bayham, Jude, Nicolai V. Kuminoff, Quentin Gunn, and Eli P. Fenichel. 2015. "Measured Voluntary Avoidance Behavior During the 2009 A/H1N1 Epidemic." *Proceedings of the Royal Society-B*, 282 (1818), 1-7.
- Perrings, Charles, Carlos Castillo-Chavez, Gerardo Chowell, Peter Daszak, Eli P. Fenichel, David C. Finnoff, Richard D. Horan, A. Marm Kilpatrick, Ann P. Kinzig, Nicolai V. Kuminoff, Simon A. Levin, Benjamin Morin, Katherine F. Smith, and Michael Springborn. "Merging Economics and Epidemiology to Improve the Prediction and Management of Infections Disease". 2014. *Ecohealth*. 11, 464-475.
- Fenichel, Eli P., Nicolai V. Kuminoff, and Gerardo Chowell. 2013. "Skip the Trip: Air Travelers' Behavioral Responses to Pandemic Influenza." *PLoS-ONE* 8(3): e58249. DOI:10.1371/pone.0058249.
- Boyle, Kevin J., Nicolai V. Kuminoff, Congwen Zhang, Michael Devanney, and Kathleen P. Bell. 2010. "Does a Property-Specific Environmental Health Risk Create a "Neighborhood" Housing-Price Stigma? Arsenic in Private Well Water" *Water Resources Research*, 46, W03507, 1-10.
- Bosch, Darrell, Nicolai V. Kuminoff, Kurt Stephenson, Jaren Pope, Anna Harris, and Alex Miller. 2010. "Evaluation of Policy Options for Expanding Oyster Aquaculture in Virginia." *Journal of Aquaculture Economics and Management*, 14 (2), 145-163.
- Monson, Joseph, Denise Mainville, and Nicolai V. Kuminoff. 2008. "The Decision to Direct Market: An Analysis of Small Fruit and Specialty-Product Markets in Virginia." *Journal of Food Distribution Research*, 39 (2), 1-11 [lead article].

## BOOK CHAPTERS AND MONOGRAPHS

- Klaiber, H. Allen and Nicolai V. Kuminoff. 2013. "Equilibrium Sorting Models of Land Use and Residential Choice," chapter in the *Oxford Handbook of Land Economics*, edited by Joshua M. Duke and Junjie Wu.
- Kuminoff, Nicolai V. 2007. "Public Policy Solutions to Environmental Externalities from Agriculture," chapter in *The 2007 Farm Bill and Beyond*. edited by Bruce L. Gardner and Daniel A. Sumner. The AEI Press, 2007.
- Mueller, J.P., N.G. Creamer, M. Barbercheck, C.H. Raczkowski, M. Bell, C. Brownie, A. Collins, K. Fager, S. Hu, L. Jackson, S. Koenning, N.V. Kuminoff, M. Linker, F. Louws, S. Mellage, D. Monks, D. Orr, R. Walters, J. Seem, C. Tu, M. Waggoner, A. Wossink and W. Zhang. 2006. "Long-Term, Large-Scale Systems Research Directed Toward Agricultural Sustainability," chapter in *Long-Term Field Experiments in Organic Farming*. J. Raupp, C. Pekrun, M. Oltmanns and U. Köpke. Berlin, Verlag Dr. Köster: 79-99.
- Sumner, Daniel A., Jose E. Bervejillo, and Nicolai V. Kuminoff. 2003. "The Measure of California Agriculture and its Importance in the State's Economy," chapter in *California Agriculture: Dimensions and Issues*, Jerry Siebert, ed. University of California Giannini Foundation of Agricultural Economics, 2003.
- Kuminoff, Nicolai V. and Daniel A. Sumner, with George Goldman. 2000. *The Measure of California Agriculture, 2000*, University of California Agricultural Issues Center, 2000.

## **WORKING PAPERS**

- Bäck, Danielle, Nicolai V. Kuminoff, Eric Van Buren, and Scott Van Buren. "National Evidence on Air Pollution Avoidance Behavior." *revision requested: Land Economics*.
- Bieri, David, Nicolai V. Kuminoff, and Jaren C. Pope. "National Expenditures on Local Amenities".
- Bishop, Kelly C., Jonathan D. Ketcham and Nicolai V. Kuminoff. "Hazed and Confused: The Effect of Air Pollution on Dementia" [NBER Working Paper #24970](#).
- Bishop, Kelly C., Nicolai V. Kuminoff, H. Spencer Banzhaf, Kevin J. Boyle, Kathrine von Gravenitz, Jaren C. Pope, V. Kerry Smith, and Christopher D. Timmins. "Best Practices in Using Hedonic Property Value Models for Welfare Measurement."
- Keane, Michael P., Jonathan D. Ketcham, Nicolai V. Kuminoff and Tim Neal. "Evaluating Consumers' Choices of Medicare Part D Plans" *conditionally accepted: Journal of Econometrics*.
- Ketcham, Jonathan D., Nicolai V. Kuminoff and Nirman Saha. "The Value of a Statistical Life: Evidence from Seniors' Medical Expenditures"
- Kuminoff, Nicolai V. "Partial Identification of Preferences in a Dual-Market Locational Equilibrium" *revision requested: Econometrica*.

## INVITED SEMINARS

**2016-2018:** Boston College, Colorado School of Mines, Environmental Defense Fund, Iowa State University, London School of Economics, Michigan State University, Northern Arizona University, Oxford, Resources for the Future, Tinbergen Institute (Amsterdam), University of Arizona, University of Braga (Portugal), University of British Columbia, University of Chicago, UC Berkeley, UC Davis, University of Calgary, University of Copenhagen, University of Kentucky, University of Maryland, University of Toronto, University of Wisconsin, Virginia Tech, Yale.

**2006-2015:** Arizona State University, Brigham Young University, Brown, Cornell, EPA National Center for Environmental Economics, Georgia State University, Harvard, Ohio State University, Penn State University, Resources for the Future, TREE seminar (joint w/Duke, NC State, and Research Triangle Institute), UC Berkeley, UC Davis, UC Santa Barbara, UC San Diego, University of Arizona, University of Calgary, University of Maryland, University of Miami, University of Minho (Portugal), University of Minnesota, University of Rochester, University of Tennessee, University of Wyoming, Virginia Tech, Washington University in St. Louis, Yale.

## CONFERENCE AND WORKSHOP PRESENTATIONS

( \* = selected paper, ^ = invited paper, † = invited discussant )

American Agricultural Economics Association summer meeting: 2001\*, 2005\*, 2009\*

American Economic Association winter meeting: 2009\*, 2011\*, 2013\*†, 2014\*, 2015\*†, 2016†, 2017†, 2019†

Atlantic Workshop on Energy and Environmental Economics: 2016\*

Australian Agricultural and Resource Economics Society winter meeting: 2008\*

AEI workshop on farm bill reform: 2007^

Association of Environmental and Resource Economists summer meeting: 2011\*, 2013\*, 2016\*

Arizona State University workshop on health economics: 2015^

Camp Resources: 2003\*, 2005\*

Copenhagen workshop on equilibrium sorting models of residential choice: 2015^

Duke workshop on housing market dynamics: 2010^

Econometric society summer meeting: 2011\*

EPA workshop on employment effects of environmental regulations: 2012^

EPA workshop on benefit transfer: 2016†

Heartland Environmental and Resource Economics Workshop: 2017†

JEEM Inaugural Conference in Environmental and Resource Economics: 2018†

Journal of Econometrics workshop on auctions and games: 2007†

Lincoln Institute of Land Policy Fellowship Symposium: 2010^

Northeast workshop on energy policy and environmental economics: 2015†

NBER summer institute on environmental and energy economics: 2011†, 2015†, 2017†

Princeton workshop on economics of infectious diseases: 2014^

UC Davis Conference on agri-environmental services: 2007^

UC Santa Barbara Occasional Conference on Environmental and Resource Economics: 2017\*

UCLA Conference on environmental and urban economics: 2015^

University of Arizona workshop on environmental and energy policy: 2012^, 2016^

W2133 workshop on nonmarket valuation: 2010\*

World Congress of Environmental and Resource Economists: 2010\*, 2018\*

## FUNDED RESEARCH

*Identifying Winners and Losers Under Proposals to Simplify Drug Plan Choice in Medicare Part D*, Co-PI. 2014. National Institute of Health Care Management, \$49,844 (with Jonathan Ketcham).

*Modeling Anthropogenic Effects in the Spread of Infectious Diseases*, Senior Investigator. 2012-2015. National Institute of Health, \$1,600,000. (with Charles Perrings, Eli Fenichel, Simon Levin, Peter Daszak, David Finoff, Katherin Smith, A Kilpatrick, Rick Horan, Mike Springborn, Carlos Castillo-Chavez, Gerardo Chowell-Puente, and Ann Kinzig).

*Boom-Bust Implications for Land Value Taxation*, Co-PI. 2009-2010. Lincoln Land Institute, \$30,000. (with Jaren Pope)

*Validation of Benefit Transfer Functions*, Co-PI. 2007-2008. Environmental Protection Agency, \$199,986. (with Kevin Boyle, Chris Parmeter, and Jaren Pope)

*Economics of Oyster Aquaculture in Virginia*. Co-PI. 2008. Virginia Dept. Environmental Quality, \$66,000. (with Darrell Bosch, Jaren Pope, and Kurt Stephenson).

*Recovering Preferences from a Dual-Market Locational Equilibrium*. PI. 2005. National Science Foundation, \$7,615.

## TEACHING (ARIZONA STATE UNIVERSITY)

1. Introductory Econometrics (undergraduate)
2. Econometrics II (doctoral)
3. Environmental Economics (doctoral)

## SUPERVISION OF DISSERTATIONS AND THESES

<u>ADVISEE</u>	<u>PROGRAM</u>	<u>UNIVERSITY</u>	<u>ROLE</u>	<u>PLACEMENT</u>
Jackie Bonabana-Wabbi	doctoral	Virginia Tech	member	Asst. Prof., Makerere University
Sapna Kaul	doctoral	Virginia Tech	member	Post-doc, University of Utah
Xingyi Puckett	doctoral	NC State	member	Optimal Solutions Group
Chuan Tang	doctoral	Clarkson	member	Post-doc, Iowa State University
Ran Tao	doctoral	Arizona State	member	Asst. Prof., NEOMA Business School
Golnaz Taghvatalab	doctoral	Virginia Tech	member	Asst. Prof., U. Central Michigan
Sajad Vahedi	doctoral	Arizona State	member	IMPAQ International
Andrew Waxman	doctoral	Cornell	member	Asst. Prof., Arizona State University
Congwen Zhang	doctoral	Virginia Tech	member	Philadelphia Works
Robert Andrade	masters	Virginia Tech	member	PhD, U. Minnesota, Applied Econ
Michael Castelhana	masters	Virginia Tech	member	PhD, UC Davis, Applied Econ
Anna Harris	masters	Virginia Tech	chair	U.S. Dept. of Wildlife and Fisheries
Jason Maupin	masters	Virginia Tech	member	USAA Financial Planning
Nilam Prasai	masters	Virginia Tech	member	Int. Food Policy Research Institute

Brandon Anderson	undergrad	Arizona State	member	Maxim Integrated Products
Danielle Back	undergrad	Arizona State	chair	Harvard Medical School
Scott Callahan	undergrad	Arizona State	member	PhD, NC State Economics
Quentin Gunn	undergrad	Arizona State	chair	Segal Consulting
Laura Herman	undergrad	Arizona State	member	APS Electric Company
Leah Luben	undergrad	Arizona State	member	Innovations for Poverty Action
Danny Ober-Reynolds	undergrad	Arizona State	member	Virginia FED
Christos Makridis	undergrad	Arizona State	member	PhD, Stanford Management Science
Ryan McKenna	undergrad	Arizona State	member	Boston College Law School
Eric Van Buren	undergrad	Arizona State	chair	PhD, U. North Carolina, Biostatistics
Scott Van Buren	undergrad	Arizona State	chair	PhD, U. North Carolina, Biostatistics

## SELECTED SERVICE ACTIVITIES

### REFEREE

*American Economic Review, Journal of Political Economy, Review of Economic Studies, International Economic Review, Review of Economics and Statistics, AEJ-Policy, AEJ-Applied, Journal of Environmental Economics and Management, Journal of the Association of Environmental and Resource Economists, Journal of Econometrics, Journal of Public Economics, Journal of Urban Economics, Land Economics, American Journal of Agricultural Economics, Environmental and Resource Economics, Resource and Energy Economics, PNAS, and others.*

### EXTERNAL REVIEWER / ADVISOR FOR DISSERTATIONS, GRANTS, BOOKS, AND REPORTS

*National Science Foundation, U.S. Environmental Protection Agency, U.S. Department of Transportation, Virginia Department of Environmental Quality, California Department of Food and Agriculture, MIT Press, University of California Press, London School of Economics, University of Toronto Economics Department.*

### DEPARTMENT AND UNIVERSITY SERVICE (ARIZONA STATE UNIVERSITY)

Personnel Committee (2018-2019)  
 Graduate Committee (2018-2019)  
 Recruiting Committee (2010, 2012, 2014, 2016)  
 Environment, Resource and Energy Econ Workshop Co-Organizer (2011-2019)  
 Undergraduate Committee (2011-2013)

### ASSOCIATION OF ENVIRONMENTAL AND RESOURCE ECONOMISTS

Secretary (2019-2020)  
 Program Committee (2015-2017)  
 Reviewer for annual summer meeting and World Congress (2012-present)