

Department of Agricultural and Resource Economics
North Carolina State University
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EDUCATION

Ph.D. in Economics (minor: Statistics), Iowa State University, Ames, IA 1997.
BS in Economics (minor: Math), Saint John's University, Collegeville, MN 1990.

FIELDS

Environmental and natural resource economics, applied econometrics
Dissertation Title: Generalized Corner Solutions in Recreation Demand (advisors: Catherine Kling and Joseph Herriges)

EMPLOYMENT

Associate Professor of Agricultural and Resource Economics, North Carolina State University, 2004-present.
Assistant Professor of Agricultural and Resource Economics, North Carolina State University, 1998-2004.

Director, Center for Environmental and Resource Economics Policy, NCSU, 2006 - 2007.
Assoc. Director, Center for Environmental and Resource Economics and Policy, NCSU, 2003 - 2006, 2007 - present

HONORS AND AWARDS

Co-editor, *Journal of Environmental Economics and Management*, 2006 – present

2003 SAEA *Teaching Course Award* for undergraduate environmental and resource economics.

2001 AAEA *Quality of Research Discovery Award*, honorable mention for “Estimation and Welfare Calculation in a Generalized Corner Solution Model with an Application to Recreation Demand”.

2001 Australian Agricultural and Resource Economics Society *Young Professionals Exchange Travel Award*. Funding awarded to attend AAREA meeting in Canberra, Australia, February 2002.

1998 German Academic Exchange Service (DAAD). Award funds to visit the Interdisciplinary Institute for Environmental Economics, University of Heidelberg, Germany.

JOURNAL ARTICLES

von Haefen, R. and D. Phaneuf, “Identifying demand parameters in the presence of unobservables: A combined revealed and stated preference approach,” forthcoming in *Journal of Environmental Economics and Management*.

Edmeades, S., D. Phaneuf, M. Smale, and M. Renkow, “Modeling the crop variety demand of semi-subsistence households: Bananas in Uganda,” forthcoming in *Journal of Agricultural Economics*.

Phaneuf, D., V.K. Smith, R. Palmquist, and J. Pope, “Integrating property value and local recreation models to value ecosystem services in urban watersheds,” forthcoming in *Land Economics*.

Mansfield, C., D. Phaneuf, F.R. Johnson, J. Yang, and R. Beach, "Preferences for public lands management under competing uses: The case of Yellowstone National Park," forthcoming in *Land Economics*.

Atasoy, M., R. Palmquist, and D. Phaneuf, "Estimating the effects of urban residential development on water quality using micro data," *Journal of Environmental Management* 79 (2006): 399-408.

von Haefen, R., D. Phaneuf, and G. Parsons. "Estimation and welfare calculation with large demand systems," *Journal of Business and Economic Statistics* 22 (2004): 194-205.

Herriges, J.A., C.L. Kling, and D.J. Phaneuf, "What's the Use? Welfare Estimates from Revealed Preference Models when Weak Complementarity Doesn't Hold," *Journal of Environmental Economics and Management* 47 (2004): 55-70.

von Haefen, R. and D.J. Phaneuf, "Estimating Preferences for Outdoor Recreation: A Comparison of Continuous and Count Data Demand Systems," *Journal of Environmental Economics and Management* 45 (2003): 612-630.

Phaneuf, D.J. and C. Siderelis, "An application of the Kuhn-Tucker demand model to the demand for water trail trips in North Carolina," *Marine Resource Economics* 18 (2003): 1-14.

von Haefen, R. and D.J. Phaneuf, "A note on estimating CES preference for outdoor recreation," *American Journal of Agricultural Economics* 85 (2003): 406-413.

Phaneuf, D.J., "A Random Utility Model for TMDLs: Estimating the Benefits of Watershed Based Ambient Water Quality Improvements," *Water Resources Research* 38 (2002).

Herriges, J.A and D.J. Phaneuf, "Introducing Patterns of Correlation and Substitution in Repeated Logit Models of Recreation Demand," *American Journal of Agricultural Economics* 84 (2002): 1076-1090.

Phaneuf, D.J. and T. Requate. "Incentives for Investment in Advanced Pollution Abatement Technology in Emission Permit Markets with Banking," *Environmental and Resource Economics* 22 (2002): 369-390.

Phaneuf, D.J., C.L. Kling, and J.A. Herriges. "Estimation and Welfare Calculations in a Generalized Corner Solution Model with an Application to Recreation Demand," *Review of Economics and Statistics* 82 (2000), 83-92.

Phaneuf, D.J. and J.A. Herriges. "Choice Set Definition in a Kuhn-Tucker Model of Recreation Demand", *Marine Resource Economics* 14 (1999), 343-355.

Phaneuf, D.J. "A Dual Approach to Modeling Corner Solutions in Recreation Demand", *Journal of Environmental Economics and Management* 37 (1999), 85-105.

Phaneuf, D.J., J.A. Herriges, and C.L. Kling. "Valuing Water Quality Improvements Using Revealed Preference Methods When Corner Solutions are Present", *American Journal of Agricultural Economics* 80 (1998), 1025-1031.

BOOK CHAPTERS AND OTHER PUBLICATIONS

Phaneuf, D.J., "The economics of pollution control", *NC State Economist*, May/June 2007.

Phaneuf, D.J., "Welfare Analysis," in *International Encyclopedia of Social Sciences*, 2nd Edition, William Darity, ed., Macmillan Reference/Thomson, 2007.

Phaneuf, D.J., "Environmental Degradation," in *Battleground Business*, M. Walden and P. Thoms, eds., Greenwood Press, 2007.

Phaneuf, D.J. and V.K. Smith, "Recreation Demand Models", in *Handbook of Environmental Economics*, Volume 2, K. Mäler and J. Vincent, eds., North-Holland, 2005.

von Haefen, R. and D.J. Phaneuf, "Kuhn-Tucker Demand System Approaches to Non-market Valuation", in *Applications of Simulation Methods in Environmental and Resource Economics*, A. Alberini and R. Scarpa, eds., Springer, 2005.

Herriges, J.A., C.L. Kling, and D.J. Phaneuf. "Corner Solution Models of Recreation Demand: A Comparison of Competing Frameworks" in *Valuing Recreation and the Environment: Revealed Preference Methods in Theory and Practice*, Joseph Herriges and Catherine Kling, eds., Edward Elgar Publishing Company, 1999.

Mansfield, C., F.R. Johnson, R. Whitmore, and D. Phaneuf, *Winter 2002-03 Visitor Survey: Yellowstone and Grand Teton National Parks*, final report for National Parks Service, 2005.

Atasoy, M., R. Palmquist, and D. Phaneuf, *Land Use Patterns and Pollution in the Upper Neuse River*, NC Water Resources Research Institute report #348, December 2003.

Murray, B. et al, *Benefits of Adopting Environmentally Superior Swine Waste Management Technologies in North Carolina: An Environmental and Economic Assessment*, final report for Smithfield Foods/Premium Standard Foods Agreement, November 2003.

Phaneuf, D.J. *Benefits of Quality Improvements in North Carolina's Water Resources*. NC Water Resources Research Institute report #332, March 2001.

Phaneuf, D.J., "Valuing clean water in North Carolina", *NC State Economist*, May/June 2002.

WORK IN PROGRESS

Herriges, J., D. Phaneuf, and J. Tobias, "Estimation and welfare analysis in a system of correlated count outcomes," under review, 2008.

Phaneuf, D., J. Carbone, and J. Herriges, "Non-price equilibria for non-marketed goods," under review, 2007

Palmquist, R., D. Phaneuf, and V.K. Smith, "Measuring the *values* for time," under review, 2007

Whitehead, J., D. Phaneuf, C. Dumas, J. Herstine, J. Hill, and B. Buerger, "Convergent validity of revealed and stated preference behavior with quality change: a comparison of multiple and single site demands," under review, 2007.

Phaneuf, D., R. von Haefen, and C. Timmins, "Using alternative specific constants to handle unobserved site characteristics in count data demand systems," draft manuscript, 2007.

UNPUBLISHED MANUSCRIPTS

Phaneuf, D., Palmquist, R. and V.K. Smith, "Choice margins and ecosystem services valuation," draft manuscript prepared for *Linking Economic and Ecological Models for Environmental Policy Workshop*.

Phaneuf, D., M. Mara, and J. Alston, "Bundled benefits from bio-tech: a Gibbs sampling approach to estimating the role of non-pecuniary attributes in technology adoption," draft manuscript.

Phaneuf, D. and R. Palmquist, "Estimating spatially and temporally explicit land conversion models using discrete duration," draft manuscript.

GRANTS, CONTRACTS, AND CONSULTING

Environmental Protection Agency, 2007. "Measuring nutrient reduction benefits for policy analysis using non-market valuation and environmental assessment models," 2007-2009, (PI with RTI, Duke, NCSU co-PI's), \$419,161.

National Research Initiative (NRI), 2007. "Measuring the benefits of farm level utilization of alternative marketing arrangements," 2008-2010, (with Tom Vukina and Xiaoyong Zheng), \$210,000.

RTI International, 2006-2007. "Demonstration and evaluation of structural benefit transfer and Bayesian benefit transfer for valuing impacts of beach quality changes" (EPA project consulting).

RTI International, 2005. "Design of 2005 National Survey of Recreation and the Environment, Freshwater Trip Module", (EPA project consulting).

Environmental Protection Agency, 2005. "Proposal for a Two-Year Extension of Camp Resources with a Supplementary Training Workshop", 2005-07 (with Kerry Smith), \$79,400.

RTI International, 2002. "Benefits and Costs of Snowmobile Management Changes in Yellowstone National Park", 2002-2003 (NPS project consulting).

NCSU Animal and Poultry Waste Management Center, 2001. "Full Economic Feasibility Assessment of the Smithfield Foods Agreement", 2001-2003 (co-investigator with several NCSU and RTI International researchers).

Environmental Protection Agency/National Science Foundation Partnership for Environmental Research, 2001. "Measuring Economic Benefits for Amenity Consequences of Land Cover Changes and Water Quality Impacts", 2001-2004 (with Kerry Smith and Ray Palmquist), \$300,000.

NC Water Quality Work Group, 2001. "Land Use Patterns and Pollution in the Upper Neuse River", Dec. 2001-Dec. 2002 (with Ray Palmquist), \$75,000.

Water Resources Research Institute of the University of North Carolina, 1999. "Benefits of Quality Improvements in North Carolina's Water Resources", 1999-2000, \$25,297.

National Science Foundation/Environmental Protection Agency Joint Competition, 1998. "An Examination of Utility Consistent Approaches to Modeling Corner Solutions in Recreation Demand," 1998-2000 (with Catherine Kling and Joseph Herriges), \$134,759.

INSTRUCTION

Training Workshops:

"Revealed Preference Outside Markets: Micro-econometrics in Environmental Economics", October 20-21, 2006, Research Triangle Park, NC.

North Carolina State University:

ARE 201 Principles of Microeconomics (undergraduate)

ARE 336 Introduction to Environmental and Resource Economics (undergraduate)

ECG 715 Environmental and Resource Economics (graduate)

ECG 716 Topics in Environmental and Resource Economics (graduate)

ECG 790 Micro-econometrics with Simulation (graduate)

ECG 561 Intermediate Econometrics (graduate)

Iowa State University:

Ph.D. Microeconomics Theory (teaching assistant).

Several sections of principles of micro- and macroeconomics.

INVITED SEMINARS AND CONTRIBUTIONS

“Lectures on valuing ocean ecosystem services,” University of Kiel, Germany, December 2007.

“Non-price equilibria for non-marketed goods”, University of Wisconsin, March 2007.

“Non-price equilibria for non-marketed goods,” (with J. Carbone, and J. Herriges), paper commissioned by Resources for the Future and EPA for the *Frontiers of Environmental Economics* workshop, Washington, DC, February, 2007.

“Choice margins and ecosystem services: The environmental costs of development,” Michigan State University, October 2006.

“A structural approach to combining property value and recreation data for water quality valuation,” University of Minnesota, November 2005.

“Is Good Teaching Bad for Your Career?”, invited contribution for AAEA conference panel discussion, July 2005.

“Choice Margins and Ecosystem Services Valuation,” (with R. Palmquist and K. Smith), invited contribution to *Linking Economic and Ecological Models for Environmental Policy Workshop*, Santa Fe, NM April 2005.

“Differing Values of Time: A Theoretical and Empirical Comparison”, UNC-Greensboro, November 2004 and University of Kiel, Germany, December 2004.

“Early Career Teaching Strategies: Preparing, Coping, and Overcoming”, invited panel discussant, AAEA conference, July 2004.

“Estimating the benefits of water quality: RUM applications to North Carolina,” Texas A+M University, April 2004.

“Using Random Utility Models for Transferring Water Quality Values”, invited contribution to *Benefit Transfer: Practical Economic Analysis for Policy*, workshop sponsored by Center for Environmental and Resource Economics Policy, Raleigh, NC, February 2001.

“Choice Set Definition in a Kuhn-Tucker Model of Recreation Demand” (with J. Herriges), invited contribution to *Choice Set Definition Workshop*, sponsored by National Marine Fisheries Service, Silver Spring, MD, Sept. 1999.

“Valuing Water Quality Improvements Using Revealed Preference Methods When Corner Solutions are Present” (with J. Herriges and C. Kling), contributed to *Valuing the Effects of Water Quality on Recreational Resources*, AAEA Principal Paper Session, August 1998.

“Estimation and Welfare Calculations in a Generalized Corner Solution Model with An Application to Recreation Demand, Department of Economics, University of Heidelberg, Germany, April 1998 and Economic Research Service, USDA, February 1998.

PROFESSIONAL SERVICE AND AFFILIATION

Co-editor, *Journal of Environmental Economics and Management*, 2005-
Editorial council, *Journal of Environmental Economics and Management* 2002-2005.

Reviewer for:

American Economic Review
Review of Economics and Statistics
European Economic Review
Journal of Business and Economic Statistics
Journal of Econometrics
Journal of Public Economics
Journal of Economics
Journal of Environmental Economics and Management
Environmental and Resource Economics
Land Economics
Water Resources Research
American Journal of Agricultural Economics
Journal of American Water Resources Association
Journal of Agriculture and Resource Economics
Journal of Agricultural and Applied Economics
Journal of Leisure Research
Marine Resource Economics
Journal of Conflict Resolution

American Agricultural Economics Association (member)
Association of Environmental and Resource Economists (member)
American Economics Association (member)

Executive Committee, Marine Resources Faculty, NCSU, 2001 -2004.
Technical Committee Member, Water Resources Research Institute of North Carolina, 2001-2003.
Faculty Advisory Committee, Watershed Education for Communities and Local Officials (WECO).
Faculty Mentor, Kenan Fellowship Program, 2006.