

Department of Agricultural and Resource Economics
North Carolina State University
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PERSONAL

Birthday: May 26, 1968
Citizenship: USA
Languages: English (native), German
Spouse: Dr. Silke Schmidt
Children: Tammo James Phaneuf (5), Finja Marie Phaneuf (9 months)

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

Professor of Agricultural and Resource Economics, North Carolina State University, 2009-present.
Associate Professor of Agricultural and Resource Economics, North Carolina State University, 2004-2009.
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, 2003 - 2006, 2008 - present

HONORS AND AWARDS

Managing Editor, *Journal of Environmental Economics and Management*, to begin January 2011.
Co-editor, *Journal of Environmental Economics and Management*, 2006 – present
2010 *Outstanding Graduate Instructor Award*, College of Agricultural and Life Sciences (CALS), NCSU.
2009 *Kriz Faculty Study Leave Endowment Award*, CALS , for 2009-10 academic year in Germany.
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). Awarded funds to visit the Interdisciplinary Institute for Environmental Economics, University of Heidelberg, Germany.

JOURNAL ARTICLES

Moore, C., D. Phaneuf, and W. Thurman, "A Bayesian bioeconometric model of invasive species control: the case of the Woolly Adelgid", *Environmental and Resource Economics*, forthcoming.

Klaiber, H. Allen and D. Phaneuf, "Valuing Open Space in a Residential Sorting Model of the Twin Cities," *Journal of Environmental Economics and Management* 60 (2010): 57-77 (lead article).

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," *Environmental and Resource Economics* 45 (2010): 91-112.

Palmquist, R., D. Phaneuf, and V.K. Smith, "Short run constraints and the increasing marginal value of time in recreation," *Environmental and Resource Economics* 46 (2010): 19-30.

Klaiber, H.A. and D. Phaneuf, "Do sorting and heterogeneity matter for open space policy? An empirical comparison of hedonic and sorting models," *American Journal of Agricultural Economics* 91 (2009): 1312-18 (proceedings).

Timar, L. and D. Phaneuf, "Modeling the human induced spread of an aquatic invasive: the case of the zebra mussel," *Ecological Economics* 68 (2009): 3060-3071.

Phaneuf, D., J. Carbone, and J. Herriges, "Non-price equilibria for non-marketed goods," *Journal of Environmental Economics and Management* 57 (2009): 45-64.

Herriges, J., D. Phaneuf, and J. Tobias, "Demand system estimation when outcomes are correlated counts," *Journal of Econometrics* 147 (2008): 282-98.

von Haefen, R. and D. Phaneuf, "Identifying demand parameters in the presence of unobservables: A combined revealed and stated preference approach," *Journal of Environmental Economics and Management* 56 (2008): 19-32.

Edmeades, S., D. Phaneuf, M. Smale, and M. Renkow, "Modeling the crop variety demand of semi-subsistence households: Bananas in Uganda," *Journal of Agricultural Economics* 59 (2008): 329-349.

Phaneuf, D., V.K. Smith, R. Palmquist, and J. Pope, "Integrating property value and local recreation models to value ecosystem services in urban watersheds," *Land Economics* 84 (2008): 361-381.

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," *Land Economics* 84 (2008): 282-305.

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 (proceedings).

BOOKS AND BOOK CHAPTERS

Phaneuf, D. and T. Requate, *A Graduate Course in Environmental Economics*, under contract with Cambridge University Press for delivery September 2011.

Phaneuf, D. and D. Earnhart, "Combining contingent behavior, contingent price, and revealed preference data to improve the valuation of time in a recreation context," in *Preference Data for Environmental Valuation*, Whitehead, Huang, Haab, editors, 2010.

Phaneuf, D. and R. von Haefen, "Estimating the demand for quality with discrete choice models," chapter 12 in *Quantifying Consumer Preferences* (Contributions to Economic Analysis series), Dan Slottje, editor, 2009.

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. Thomas, 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.

REPORTS AND OTHER WRITING

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

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

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

WORK IN PROGRESS

Phaneuf, D., "Does consumption of convenience products reveal the opportunity cost of time?", revisions submitted, *Economics Letters*, 2010.

Phaneuf, D., L. Taylor, and J. Braden, "Combining RP and SP data to estimate preferences for residential amenities: a GMM approach," under review, *Land Economics*, 2010.

Klaiber, A. and D. Phaneuf, "Linking developers and homeowners in a horizontal sorting framework: implications for general equilibrium welfare measurement," draft manuscript, 2010.

UNPUBLISHED MANUSCRIPTS

Sung, J., D. Phaneuf, and W. Thurman, "Estimating the welfare impacts of snowmobile use restrictions in Yellowstone National Park," draft manuscript, 2008.

Phaneuf, D., R. von Haefen, and C. Timmins, "Using alternative specific constants to handle unobserved site characteristics in count data demand systems," draft manuscript, 2006.

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, 2008-2009. "A proposal for a micro-econometrics training workshop," \$78,489.

NC Water Resources Research Institute, 2008-2009. "Funding to support a research assistant for EPA nutrient valuation project," \$20,520.

Environmental Protection Agency, 2007-2010. "Measuring nutrient reduction benefits for policy analysis using non-market valuation and environmental assessment models," (PI with RTI, Duke, NCSU co-PI's), \$419,161.

National Research Initiative (NRI), 2007-2009. "Measuring the benefits of farm level utilization of alternative marketing arrangements," 2008-2010, (with Tom Vukina and Xiaoyong Zheng), \$210,000.

RTI International, 2007-2010. "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, 2005-2007. "Proposal for a Two-Year Extension of Camp Resources with a Supplementary Training Workshop," (with Kerry Smith), \$79,400.

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

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

Environmental Protection Agency/National Science Foundation Partnership for Environmental Research, 2001-2--4. "Measuring Economic Benefits for Amenity Consequences of Land Cover Changes and Water Quality Impacts," (with Kerry Smith and Ray Palmquist), \$300,000.

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

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

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

INSTRUCTION

Training Workshops:

"Micro-econometrics in and out of markets: a second training workshop on micro-econometrics in environmental economics", May 28-29, Washington, DC.

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

Classroom:

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)
Principles of microeconomics and principles of macroeconomics (at Iowa State University)

INVITED SEMINARS AND CONTRIBUTIONS

"Combining RP and SP data to estimate preferences for residential amenities: a GMM approach," Stravanger University, Norway, June 2010, Heidelberg University, Germany, July 2010, and University of Wisconsin, December 2010.

"Combining RP and SP data to estimate preferences for residential amenities: a GMM approach," Kiel University, Germany, November 2009 and University of Manchester, UK, December 2009.

"Valuing open space in a residential sorting model of the Twin Cities," University of Calgary, February 2009.

"Estimating the welfare impacts of snowmobile use restrictions in Yellowstone National Park," Kansas University, April 2008.

"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

Managing Editor, *Journal of Environmental Economics and Management*, to begin February 2011.

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

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 Applied Econometrics, International Economic Review, Journal of Public Economics, BE Journal of Economic Analysis and Policy, Journal of Economics, Journal of Environmental Economics and Management, Environmental and Resource Economics, Land Economics, Ecological Economics, Contemporary Economic Policy, Water Resources Research, Information Economics and Policy, 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, Journal of Benefit Cost Analysis

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.