

Department of Agricultural and Applied Economics
University of Wisconsin-Madison
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Madison, WI 53706-1503

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PERSONAL

Citizenship: USA
Languages: English (native), German
Spouse: Dr. Silke Schmidt
Children: Tammo, Finja

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 Applied Economics, University of Wisconsin, 2013-present.
Associate Professor of Agricultural and Applied Economics, University of Wisconsin, 2012-2013.
Faculty Affiliate, Department of Economics, University of Wisconsin, 2012-present.

Professor of Agricultural and Resource Economics, North Carolina State University, 2009-2011.
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 - 2011

HONORS AND AWARDS

President Elect, Association of Environmental and Resource Economists (AERE), 2018.

Henry C. Taylor Professor of Agricultural and Applied Economics (endowed professorship), 2017-present

Editor, *Land Economics*, 2018-present.

Inaugural Editor in Chief, *Journal of the Association of Environmental and Resource Economists (JAERE)*,
January 2014 to December 2016.

Managing Editor, *Journal of Environmental Economics and Management*, January 2011 to December 2013.

Co-editor, *Journal of Environmental Economics and Management*, 2006 – 2010.

2014 and 2016 *Outstanding Contribution to Graduate Program*, Department of Agricultural and Applied Economics, UW

2010 *Outstanding Graduate Instructor Award*, College of Agricultural and Life Sciences, NCSU.

2009 *Kriz Faculty Study Leave Endowment Award*, 2009/2010 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.

JOURNAL ARTICLES

Williams, A. D. Phaneuf, M. Barrett, and J. Su, "The short term impact of PM_{2.5} on contemporaneous asthma medication use: behavior and the value of pollution reductions," *Proceedings of the National Academy of Sciences*, forthcoming.

Kling, C. and D. Phaneuf, "How are scope and adding up relevant for benefits transfer?" *Environmental and Resource Economics*, 69 (2018): 483-502.

Lutzeyer, S., D. Phaneuf, and L. Taylor, "The amenity costs of offshore wind farms: evidence from a choice experiment," *Energy Economics* 72 (2018): 621-639.

Taylor, L., D. Phaneuf, and X. Liu, "Disentangling the impacts of environmental contamination from locally undesirable land uses," *Journal of Urban Economics* 93 (2016): 85-98.

Hamilton, T. and D. Phaneuf, "An integrated model of regional and local residential sorting with application to air quality," *Journal of Environmental Economics and Management* 74 (2015): 71-93.

Van Houtven, G., C. Mansfield, D. Phaneuf, R. von Haefen, B. Milstead, M. Kenney, and K. Reckhow, "Combining expert elicitation and stated preference methods to value ecosystem services from improved lake water quality," *Ecological Economics* 99 (2014): 40-52.

Hu, W-Y, D. Phaneuf, and X. Zheng, "Quantifying the benefits associated with the use of alternative marketing arrangements by US farmers," *China Agricultural Economic Review* 6 (2014): 108-124.

Liu, C., J. Herriges, C. Kling, S. Secchi, J. Nassauer, and D. Phaneuf, "A comparison of value elicitation question formats in multiple good contingent valuation," *Frontiers of Economics in China* 9 (2014): 84-107.

Phaneuf, D., "Heterogeneity in environmental demand," *Annual Reviews of Resource Economics* 5 (2013): 227-244.

Phaneuf, D., L. Taylor, and J. Braden, "Combining RP and SP data to estimate preferences for residential amenities: a GMM approach," *Land Economics* 89 (2013): 30-52.

Kling, C., D. Phaneuf, and J. Zhao, "From Exxon to BP: has some number become better than no number?" *Journal of Economic Perspectives* 26(4) (2012): 3-26.

Phaneuf, D., "Does consumption of convenience products reveal the opportunity cost of time?" *Economics Letters* 113 (2011): 92-95.

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* 50 (2011): 1-26.

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.

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 Course in Environmental Economics: Theory, Policy, and Practice*, Cambridge University Press, 2017.
- Phaneuf, D. and G. Van Houtven, "Structural benefits transfer using Bayesian econometrics," in *Benefit Transfer of Environmental and Resource Values: A Handbook for Researchers and Practitioners*, R. Johnston and R. Rosenberger, editors, 2015.
- Phaneuf, D., "Benefit-cost analysis," in *Environmental and Natural Resource Economics: An Encyclopedia*, Timothy Haab and John Whitehead, editors, Greenwood, 2014.
- 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, 2011.
- 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.

OTHER WRITING AND MEDIA PRESENCE

D. Phaneuf, "Five things everyone should know about daylight savings time," contributed essay, *Grow: Wisconsin's Magazine for the Life Science*, spring 2016.

Grainger, C. and D. Phaneuf, "Let's create less job security for politicians," op-ed, *Milwaukee Journal Sentinel*, July 14, 2015.

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

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

WORK IN PROGRESS

Alix-Garcia, J., K. Sims, and D. Phaneuf, "Using referenda to improve targeting and decrease costs of environmental conditional cash transfers," under review, 2018.

Warsaw, P. and D. Phaneuf, "The implicit price of food access in an urban area: evidence from Milwaukee property markets," under review, 2018.

Williams, A. and D. Phaneuf, "The welfare costs of air pollution induced medical expenditures," under review, 2018.

Raynor, J. and D. Phaneuf, "Valuing ecological changes in the Lake Michigan recreational fishery," under review, 2018.

Kalinin, A., D. Parker, and D. Phaneuf, "Effects of local regulation on neighboring jurisdictions: evidence from mining ordinances," draft manuscript, 2017.

GRANTS, CONTRACTS, AND CONSULTING

UW Fall Competition, 2018-2019. "Inland recreation fisheries as coupled social-ecological systems," \$34,222.

UW Fall Competition, 2017-2018. "The economic value of removing lead water pipes: evidence from the Madison replacement program," \$51,424.

Great Lakes Fishery Commission, 2016-2018. "Enabling predictions of the economic consequences of aquatic invasive species establishment to recreational fishers on the Ontario side of the Great Lakes," \$235,034 (with Josh Abbott, Arizona State, Eli Fenichel, Yale, and Len Hunt, Ontario Ministry of Natural Resources).

US EPA, 2016-2019. "Valuing water quality improvements in Midwestern ecosystems: spatial variability, validity, and extent of the market for total value," \$800,000 (multiple PI project with Iowa State, University of Minnesota, Michigan State, University of Tennessee).

UW Consortium for Extension and Research in Agriculture and Natural Resources, 2015-16. "Exploring the roles of local organizations in advancing lake health in Wisconsin," \$24,289 (with Ken Genskow, UW-Madison, and Eric Olson, UW-Steven's Point).

WI Sea Grant, 2014-16. "Estimating the economic benefits of the Wisconsin Great Lakes sport fishery," \$214,241.

USDA Agriculture and Food Research Initiative (AFRI) Program, 2014-17. "Understanding environmental tradeoffs in an amenity based rural economy: lessons from large scale shocks in Wisconsin," \$495,859

USDA National Needs Fellows, 2014-2017. "A graduate program in resource economics at the University of Wisconsin: Adaptation to climate change and policy," \$238,500.

Itasca Water Legacy Partnership, 2012-2013. "Economic valuation of water quality in Itasca County Minnesota," \$87,094.

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, 2007-2012. "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, 2001-2004. "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.

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

INSTRUCTION

Training Workshops:

"New opportunities for environmental measurement," AERE pre-conference workshop, May 2017, Pittsburg (co-organizer with Cathy Kling and Yusuke Kuwayama).

"Spatial econometric analysis and spatial data management", August 2014 and August 2015, Copenhagen, Denmark (course instructor).

"Micro-econometrics in and out of markets: a second training workshop on micro-econometrics in environmental economics", May 28-29, 2009, Washington, DC (course organizer/instructor).

"Revealed Preference Outside Markets: Micro-econometrics in Environmental Economics", October 20-21, 2006, Research Triangle Park, NC (course organizer/instructor).

Classroom at NCSU:

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)

Classroom at UW:

AAE 875 Micro-econometrics with Simulation (graduate)

AAE 643 Foundations of Environmental and Resource Economics (graduate)

AAE 636 Applied Econometric Analysis I (graduate)

AAE 244 Environment and the World Economy (undergraduate)

INVITED SEMINARS

University of Illinois, April 2018

Toulouse School of Economics, September 2017

University of Geneva, September 2017

University of Kentucky, May 2017

Penn State University, April 2017

University of Minnesota, February 2017

University of Oregon, April 2015

Cornell University, March 2015

University of Arizona, December 2013

Arizona State University, March 2013

University of Washington, November 2012

Ohio State University, October 2012

University of Minnesota, April 2012

Iowa State University, October 2011

Resources for the Future, June 2011

University of California-Davis, April 2011

University of Tennessee, March 2011
University of Heidelberg, Germany, July 2010
Stravanger University, Norway, June 2010
University of Wisconsin, December 2010
University of Manchester, UK, December 2009
University of Kiel, Germany, November 2009
University of Calgary, February 2009
Kansas University, April 2008
University of Wisconsin, March 2007
Michigan State University, October 2006
University of Minnesota, November 2005
University of Kiel, Germany, December 2004
University of North Carolina-Greensboro, November 2004
Texas A&M University, April 2004
University of Heidelberg, Germany, April 1998
Economic Research Service, USDA, February 1998

INVITED CONTRIBUTIONS

Invited speaker, *Integrated Assessment Models and the Social Costs of Water Pollution*, Iowa State University, April 2018.

Invited speaker, *Economics, Environment, and Sustainable Development*, Sackler Colloquium, National Academy of Science, January 2018.

Invited speaker, *Environmental and Natural Resource Conversation: Theoretical and Empirical Issues*, INRA-SupAgro, Montpellier, France, September 2017.

Invited panelist, “Alternative paths to a successful career”, *Economics of Water and Energy Workshop*, San Diego, CA, March 2017.

Invited contributor and participant, *Benefit Transfer: Evaluating How Close is Close Enough*, US EPA, Washington DC, December 2016.

Keynote speaker, *Latin American Environmental and Energy Economics Workshop*, CIDE Region Centro, Aguascalientes, Mexico, September 2015.

Keynote speaker, *Sustainable Resource Use and Economic Dynamics (SURED)*, Monte Verità, Switzerland, June 2014.

Invited speaker, *Global Environmental Challenges: The Role of China* workshop, Shanghai, China, December, 2012.

Invited participate and discussant, *Advancing the Theory and Methods for Understanding Employment Effects of Environmental Regulation* workshop, US EPA, Washington DC, October, 2012.

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

“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.

PROFESSIONAL SERVICE AND AFFILIATION

President Elect, Association of Environmental and Resource Economists (AERE), 2018.

Editor, *Land Economics*, July 2018-present.

Editor in Chief, *Journal of the Association of Environmental and Resource Economists*, January 2014 to December 2016.

Managing Editor, *Journal of Environmental Economics and Management*, January 2011 to December 2013.

Co-editor, *Journal of Environmental Economics and Management*, 2006-2010.

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

>30 external promotion and tenure letters

Reviewer for:

Science, Proceedings of the National Academy of Science, 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 Economic Behavior and Organization, Journal of Environmental Economics and Management, Journal of the Association of Environmental and Resource Economists, 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, Canadian Journal of Fisheries and Aquatic Sciences

Association of Environmental and Resource Economists (member)

American Economics Association (member)

EPA Science Advisory Board, 2016 to 2017

Clean Wisconsin Science Advisory Board, 2016 to present

Board Member, Association of Environmental and Resource Economists (AERE), 2011 to 2016.

Director of Graduate Studies, UW AAE, 2012 to 2016.

Faculty Mentor, Kenan Fellowship Program, 2006.

Executive Committee, Marine Resources Faculty, NCSU, 2001-2004.

Technical Committee Member, Water Resources Research Institute of North Carolina, 2001-2003.