

Joseph Anthony Herriges
Vita

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Education:

Degrees: B.S., Marquette University, 1978, Economics and Statistics
M.S., University of Wisconsin-Madison, 1982, Economics
Ph.D. University of Wisconsin-Madison, August 1983, Economics

Major Field: Econometrics

Thesis Title: Issues in the Measurement of Consumer Response to
Time-of-Use Electricity Pricing

Awards and Honors:

- Fellow, *Association of Environmental and Resource Economics*, 2014
- Managing Editor, *Journal of Environmental Economics and Management*, 2001-2006
- Transition Editor, *Journal of the Association of Environmental and Resource Economics*, 2013.
- Co-Editor, *Journal of the Association of Environmental and Resource Economics*, 2014-2016.
- Associate Editor, *Environmental and Resource Economics*, 2010-12
- Editorial Council, *Journal of the Association of Environmental and Resource Economics* 2017-present
- Editorial Board, *Australian Economic Papers*, 2004-present
- Scientific Advisory Board, *Environmental and Resource Economics*, 2006-2010, 2013-present
- Editorial Advisory Board, *Journal of Choice Modeling*, 2007-2015
- Bruce Gardner Memorial Prize for Applied Policy Analysis, AAEA, for "Assessing the Value of Water Quality Preservation and Restoration: The Iowa Lakes and Rivers Projects," 2012.
- Quality of Research Discovery Award (honorable mention), AAEA, 2000 and 2001
- Best in Show, USEPA Science Forum Poster Session, 2004.
- Phi Beta Kappa Honorary Society

- Alpha Sigma Nu Honorary Society
- WARF Graduate Fellowship 1979 to 1980, University of Wisconsin-Madison

Academic Positions Held:

Assistant Professor, Iowa State University	August 1988 to June 1993
Associate Professor, Iowa State University	July 1993 to June 1999
Full Professor, Iowa State University	July 1999 to July 2014
Full Professor, Michigan State University	August 2014 to present

Other Employment:

Staff Economist, Laurits R. Christensen Associates, Inc.	May 1981 to May 1983
Senior Economist, Laurits R. Christensen Associates, Inc.	May 1983 to July 1988
Senior Research Associate, L. R. Christensen Assoc., Inc.	August 1988 to 1996

Professional Papers:

1. “Fixed Costs and Recreation Value,” *American Journal of Agricultural Economics* (2019), forthcoming, (with Eric English, Frank Lupi, Ted McConnell, and Roger von Haefen).
2. “Estimating the Value of Lost Recreation Days from the Deep-Water Horizon Oil Spill,” *Journal of Environmental Economics and Management*, 91(2018): 26-45 (with Eric English, Roger von Haefen, Christopher Leggett, Frank Lupi, Ted McConnell, Michael Welsh, Adam Domanski, and Norman Meade).
3. “Convergent Validity and the Time Consistency of Preferences: Evidence from the Iowa Lakes Recreation Demand Project,” *Land Economics* 93(2): 269-291, 2017 (with DongGyu Yi).
4. “Combining Revealed Preference Data with Stated Preference Data: A Latent Class Approach,” *Environmental & Resource Economics* 68(4): 1053-1086, 2017 (with Hocheol Jeon).
5. “Solving the Phosphorus Pollution Puzzle: Synthesis and Directions for Future Research,” *American Journal of Agricultural Economics* 98(5):1334-1359, 2016 (with Cloé Garnache, Scott Swinton, R. Jan Stevenson, and Frank Lupi).
6. “Modeling Recreation Demand when the Access Point is Unknown,” *American Journal of Agricultural Economics* 98(3) 860-880, 2016 (with Yongjie Ji and Catherine Kling).
7. “A Comparison of Value Elicitation Question Formats in Multiple-Good Contingent Valuation,” *Frontiers of Economics in China*, 9(1): 85-108, 2014 (with Chih-Chen Liu, Catherine L. Kling, Joan M. Nassauer, Daniel Phaneuf, and Silvia Secchi).
8. “Model Uncertainty in Characterizing Recreation Demand,” *Environmental & Resource Economics*, 53(2): 251-277, 2012 (with Babatunde Abidoye) 2013 EARE commended paper.

9. "Controlling for Observed and Unobserved Site Characteristics in RUM Models of Recreation Demand," *American Journal of Agricultural Economics*, **94**(5): 1070-1093, 2012 (with Babatunde Abidoye and Justin Tobias).
10. "Convergent Validity of Contingent Behavior Responses in Models of Recreation Demand," *Environmental and Resource Economics*, Vol. 45, No. 2, 2010, pp. 223-250 (with Yongsik Jeon).
11. "What are the Consequences of Consequentiality?" *Journal of Environmental Economics and Management*, Vol. 59, No. 1, 2010, pp. 67-81 (with Chi-Chen Liu, Catherine Kling and Justin Tobias).
12. "Non-Price Equilibria for Non-Marketed Goods," *Journal of Environmental Economics and Management*, Vol. 57, No. 1, 2009, pp. 45-64, prepared for: Resources for the *Future Frontiers of Environmental Economics Workshop*, Washington DC, August, 2008 (with Daniel J. Phaneuf and Jared Carbone).
13. "Valuing Water Quality as a Function of Water Quality Measures," *American Journal of Agricultural Economics*, Vol. 91, No. 1, 2009, p 106-123 (with Kevin Egan, Catherine Kling, and John Downing).
14. "Estimating Demand Systems when Outcomes are Correlated Count," *Journal of Econometrics*, Vol. 147, Issue 2, 2008, pp. 282-298 (with Daniel Phaneuf and Justin Tobias).
15. "The Status of Women of Environmental Economics," *Review of Environmental Economics and Policy*, Vol. 1, No. 2, 2007, pp. 212-227 (with Subhra Bhattacharjee and Catherine L. Kling).
16. "Multivariate Count Data Regression Models with Individual Panel Data from On-Site Sampling," *Journal of Environmental Economics and Management*, Vol. 52, No. 2, 2006, pp 567-581 (with Kevin Egan).
17. "Living with Hogs in Iowa: The Impact of Livestock Facilities on Rural Residential Property Values," *Land Economic*, Vol. 81, No. 4, 2005, pp. 530-545 (with Silvia Secchi and Bruce Babcock).
18. "Parametric and Semi-nonparametric Estimation of Willingness-to-Pay in a Contingent Valuation Framework," *Environmental and Resource Economics*, Vol. 27, No. 4, 2004, pp. 451-480 (with John Crooker).
19. "What's the Use? Welfare Estimates from Revealed Preference Models when Weak Complementarity Does Not Hold," *Journal of Environmental Economics and Management*, Vol. 47, No. 1, 2004, pp. 55-70 (with Catherine Kling and Daniel Phaneuf).
20. "Combining Revealed and Stated Preferences: Consistency Tests and Their Interpretation," *American Journal of Agricultural Economics*, Vol. 85, No. 3, 2003, pp. 525-537 (with Christopher Azevedo and Catherine Kling).
21. "Inducing Patterns Correlation and Substitution in Repeated Logit Model of Recreation Demand," *American Journal of Agricultural Economics*, Vol. 84, No. 4, 2002 pp. 1076-1090 (with Daniel Phaneuf).

22. "Estimation and Welfare Calculations in a Generalized Corner Solution Model with an Application to Recreation Demand," *The Review of Economics and Statistics*, Vol. 82, No. 1, 2000, pp. 83-92 (with D. Phaneuf and C. Kling).
23. "Choice Set Definition Issues in a Kuhn-Tucker Model of Recreation Demand," *Marine Resources Economics*, Vol. 14, Winter 1999, 343-355. (with D. J. Phaneuf).
24. "Nonlinear Income Effects in Random Utility Models," *The Review of Economics and Statistics*, Vol. 81, No. 1, 1999, pp. 62-72 (with C. L. Kling).
25. "Measuring Goodness of Fit for the Double-Bounded Logit Model: Comment," *The American Journal of Agricultural Economics*, Vol. 81, No. 1, 1999, pp. 231-234.
26. "Valuing Water Quality Improvements Using Revealed Preference Methods When Corner Solutions Are Present," *The American Journal of Agricultural Economics*, Vol. 80, No. 5, 1998, pp. 1025-1031 (with C. L. Kling and D. J. Phaneuf).
27. "Residential Response to Voluntary Time-of-Use Electricity Rates," *Resource and Energy Economics*, Vol. 20, No. 3, 1998, pp. 225-244 (with S. Baladi and T. Sweeney).
28. "The Performance of Nested Logit Models When Welfare Estimation is the Goal," *The American Journal of Agricultural Economics*, Vol. 79, No. 3, 1997, pp. 792-802 (with C. L. Kling).
29. "Starting Point Bias in Dichotomous Choice Valuation with Follow-up Questioning," *Journal of Environmental Economics and Management*, Vol. 30, No. 1, 1996, pp. 112-131 (with Jason F. Shogren).
30. "Testing the Consistency of Nested Logit Models with Utility Maximization," *Economics Letters*, Vol. 50, No. 1, 1996, pp. 33-40 (with Catherine L. Kling).
31. "An Empirical Investigation of the Consistency of Nested Logit Models with Utility Maximization," *The American Journal of Agricultural Economics*, Vol. 77, No. 4, 1995, pp. 875-884 (with Catherine L. Kling).
32. "Budget Balancing Incentive Mechanisms," *The Journal of Environmental Economics and Management*, Vol. 27, No. 3, 1994, pp. 275-285 (with Jason Shogren and Ramu Govindasamy).
33. "Residential Demand for Electricity Under Block Rate Structures: Evidence from a Controlled Experiment," *Journal of Business and Economic Statistics*, Vol. 12, No. 4, October 1994, pp. 419-430 (with K. A. King).
34. "The Response of Industrial Customers to Electric Rates Based Upon Dynamic Marginal Costs," *The Review of Economics and Statistics*, Vol. 75, No. 3, 1993, pp. 446-454. (with S. M. Baladi, D. W. Caves and B. F. Neenan).
35. "The Limits to Environmental Bonds: Lessons for the Labor Literature," *Ecological Economics*, Vol. 8, 1993, pp. 109-133 (with Jason Shogren and Ramu Govindasamy).
36. "Matching Grants and Public Goods: A Closed-Ended Contingent Valuation Experiment," *Public Finance Quarterly* Vol. 21, No. 2, 1993, pp. 178-195 (with J. P. Combs, R. C. Kirkpatrick, and J. F. Shogren).

37. "Crop Insurance as a Mechanism for Reducing Pesticide Usage: A Representative Farm Analysis," *The Review of Agricultural Economics*, Vol. 14, No. 2, 1992, pp. 169-186 (with Eli Feinerman and Derald Holtkamp).
38. "Optimal Dispatch of Interruptible and Curtailable Service Options," *Operations Research*, Vol. 40, No. 1, 1992, pp. 104-112 (with Douglas W. Caves).
39. "The Regulation of Non-Point Sources of Pollution under Imperfect and Asymmetric Information," *The Journal of Environmental Economics and Management*, Vol. 22, No. 2, 1992, pp. 134-146 (with Richard Cabe).
40. "The Implicit Value of Corn Base Acreage," *The American Journal of Agricultural Economics*, Vol. 74, No. 2, 1992, pp. 50-58 (with N. Barickman and J. Shogren).
41. "The Cost of Power Interruptions in the Industrial Sector: Estimates Derived from Interruptible Service Programs," *Land Economics*, Vol. 68, No. 2, 1992, pp 49-61 (with D. W. Caves and R. J. Windle).
42. "Customer Demand for Service Reliability in the Electric Power Industry: A Synthesis of the Outage Cost Literature," *The Bulletin of Economic Research*, Vol. 42, No. 2, 1990, pp. 79-119 (with D. W. Caves and R. J. Windle).
43. "Load Shifting Under Voluntary Residential Time-of-Use Rates," *The Energy Journal*, Vol. 10, No. 4, 1989, pp. 83-99 (with D. W. Caves and K. A. Kuester).
44. "Load Impact of Interruptible and Curtailable Rate Programs: Evidence from Ten Utilities," *IEEE Power Engineering Society Transactions*, 88 WM152-1, 1988 (with D. W. Caves, P. Hanser and R. J. Windle).
45. "Neoclassical Model of Consumer Demand with Identically Priced Commodities; And An Application to Time-of-Use Electricity Pricing," *The Rand Journal of Economics*, Vol. 18, No. 4, 1987, pp. 564-580 (with D.W. Caves and L.R. Christensen).
46. "A Bayesian Approach to Combining Conditional Demand and Engineering Models of Electricity Usage," *The Review of Economics and Statistics*, Vol LXIX, No. 3, August, 1987, pp. 438-448 (with D.W. Caves, K. Train, and R. Windle).
47. "Statistically Adjusted Engineering (SAE) Models of End-Use Load Curves," *Energy*, Vol. 10, No. 10, 1985, pp. 1103-1111 (with K. Train and R. Windle).
48. "The Consistency of the Residential Customer Response in Time-of-Use Electricity Pricing Experiments," *Journal of Econometrics*, Vol. 26, 1984, pp. 179-203 (with D.W. Caves and L.R. Christensen).
49. "Modeling Alternative Residential Peak-Load Electricity Rate Structures," *Journal of Econometrics*, Vol. 26, 1984, pp. 249-268, (with D.W. Caves and L.R. Christensen).

Books and Book Chapters

1. *The Measurement of Environmental and Resource Values: Theory and Methods, 3rd Edition*, RFF Press, 2014 (with A. Myrick Freeman III and Catherine L. Kling).

2. *Encyclopedia of Energy, Natural Resource, and Environmental Economics* (Section Editor), Elsevier 2013.
3. "The Role of Water Quality Perceptions in Modeling Lake Recreation Demand," in J. Bennett (ed.) *International Handbook of Non-Market Environmental Valuation*, Aldershot: Edward Elgar, 2011 (with Y. Jeon, C. L. Kling, and J. Downing)
4. *Revealed Preference Approaches to Environmental Valuation, Volumes I and II*, Aldershot: Ashgate Publishing Limited, June, 2008 (with C. L. Kling).
5. "Recreation Demand Models," in H. Folmer and T. Tietenberg, *International Yearbook of Environmental and Resource Economics*, Cheltenham: Edward Elgar, pp. 269-304, 2003 (with C. L. Kling).
6. *Valuing Recreation and the Environment: Revealed Preference Methods in Theory and Practice*, Aldershot: Edward Elgar, 1999 (with C. L. Kling).
7. "Corner Solution Models Recreation Demand: A Comparison of Competing Frameworks," in J. A. Herriges and C. L. Kling (eds.), *Valuing Recreation and the Environment: Revealed Preference Methods in Theory and Practice*, Aldershot: Edward Elgar, 1999 (with C. L. Kling and D. Phaneuf).
8. "Nonpoint Tournaments," in T. Graham-Tomasi and C. Dosi, eds., *Nonpoint Source Pollution Regulation: Issues and Analysis*, Dordrecht: Kluwer, pp. 87-106, 1994 (with Jason Shogren and Ramu Govindasamy).
9. "Predicting Customer Response to Time-of-Use Electricity Rates: Insights From EPRI Research," in R.F. Hill, ed., *A Decade of Progress*, June, 1983 (with D.W. Caves, L.R. Christensen, A. Faruqui, K.K. Lee and A.K. Miedema).

Conference Proceedings and Other Papers:

1. "Is Outdoor Recreation Recession Proof? An Empirical Investigation of the 2009 Recession," revise and resubmit at *Land Economics*, June 2018 (with Mohammad Mainul Hoque and Cathy Kling).
2. "A Site-Portfolio Model for Multiple-Destination Recreation Trips: Valuing Trips to National Parks in the Southwestern USA," revise and resubmit at *Journal of the Association of Environmental and Resource Economics* (with Zhe Chen, George Parsons, Chris Leggett, Nancy Bockstael, and Kevin Boyle), December, 2018.
3. "BP Gulf Oil Spill Caused Damages to Recreationists from Across the United States," working paper, *Proceeding of the National Academy of Science*. April 2017 (with English, E., K. McConnell, R. Tourangeau, R. von Haefen, F. Lupi, D. Chapman, E. Horsch, C. Leggett, M. Welsh, N. Meade, A. Domanski, J. Price).
4. "Does Water Quality Matter for Recreation? Evidence from Micro Panel Data," Working paper, December 2015 (with Cathy Kling and Dan Phaneuf).
5. "Vehicle Fuel Efficiency and the Rebound Effect: Evidence from U.S. Panel Data," working paper, November 2014 (with Hocheol Jeon).

6. "Weighing the Effects of Obesity on the Environment," working paper, November 2014 (with Hocheol Jeon).
7. "RUM Models Incorporating Nonlinear Income Effects," working paper, January, 2013 (with Babatunde Abidoye).
8. "Capturing Preferences Under Incomplete Scenarios Using Elicited Choice Probabilities," Working paper, March, 2011 (with Subhra Bhattacharjee and Cathy Kling).
9. Book review of Lee, Myoung-jae (2010) *Micro-Econometrics: Methods of Moments and Limited Dependent Variables*, 2nd Edition in the *American Journal of Agricultural Economics* **93**(3): 916-917.
10. "Rounding in Recreation Demand Models: A Latent Class Count Model," ISU Working Paper #10012, June, 2010, (with Keith Evans).
11. "A Kuhn-Tucker Model of Micro-Level Household Demand: Temporal Stability of Recreation Preferences Using Panel Data," December 2009, presented at the 2010 ASSA Meetings, Atlanta, Georgia (with Subhra Bhattacharjee and Catherine Kling).
12. "Timing of Fertilizer Applications: Environmental Implications," April, 2008 (with Mira Nurmakhanova and Catherine Kling).
13. "Combining Revealed Preference and Stated Preference Data without Invoking the Weak Complementarity Condition," Working paper, January 2, 2007 (with Kevin Egan, John Downing and Catherine Kling), presented at the 2007 ASSA Meetings, Chicago, Illinois.
14. "Jointly Modeling the Number of Trips Taken and Site Choice Using Data from On-Site Samples: An Application to Clear Lake, Iowa" May 2003 (with Ivaylo Minkov and Jean Opsomer)
15. "Valuing Preservation and Improvements of Water Quality in Clear Lake," Center for Agricultural and Rural Development working paper, 01-SR 94, March 2001 (with Christopher Azevedo and Catherine Kling).
16. "Updating Prior Methods for Benefits Transfer: A Bayesian Paradigm," working paper, presented at CENREP Conference on Benefits Transfer, Research Triangle, North Carolina, February 2001 (with Catherine Kling).
17. "Iowa Wetlands: Perceptions and Values", Center for Agricultural and Rural Development working paper, 00-SR 91, March 2000 (with Christopher Azevedo and Catherine Kling).
18. "Combining Revealed and Stated Preference Data: The Role of The Opportunity Cost of Time," working paper, February 2000 (with Christopher Azevedo and Catherine Kling).
19. "Linking Revealed and Stated Preferences to Test External Validity," working paper, Center for Agricultural and Rural Development, 99-WP 222, May 1999 (with Catherine Kling and Christopher Azevedo).
20. "The Design and Implementation of an Experiment to Test Response to Electric Rates Based on Dynamic Marginal Costs," Working paper, March 1990, (with D.W. Caves and B. Neenan).

21. "The Importance of Market Segmentation in New Service and Rate Offerings," *New Dimensions in Utility Pricing: Proceedings*, Electric Power Research Institute, April, 1989, CU-6300 (with D.W. Caves and R.J. Windle).
22. "Reference Load Shapes and Response Estimates for Analyzing Alternative Rates and Marketing Programs, in *Selected Papers on Demand-Side Management: 1985-87*, Electric Power Research Institute, conference proceedings, EM-5732, April 1988 (with D.W. Caves and R. Windle).
23. "Voluntary Time-of-Use Rates and Involuntary Revenue Erosion," Working Paper, December 1987 (with D. W. Caves and L. Kirsch).
24. "Trends in Electricity Pricing and Service for Large Users," presented at The Center for Materials Fabrication Induction Forum, November 17-18, 1987, Pittsburgh (with D.W. Caves and R.J. Windle).
25. "Interruptible/Curtailable Rate Programs: Issues in the Development of Customer Credits," presented at The Annual Review of Demand-Side Management Planning Research, Houston, Texas, September 1987 (with D.W. Caves and R.J. Windle).
26. "Evidence on Interruptible and Curtailable Service for Electricity Customers," presented at the *Third National Conference on Utility DSM Programs: Demand-Side Management Strategies in Transition*, Houston, Texas, June 16-18, 1987 (with D. W. Caves, P. Hanser, and R. J. Windle).
27. "Policy and Economic Issues," prepared for *Proceedings of Niagara Mohawk Workshop on Real Time Pricing and Load Management Opportunities in New York State*, March 12 and 13, 1986 (with L. R. Christensen).
28. "Customer Response to Experimental Demand Side Management Programs," prepared for *Proceedings of Niagara Mohawk Workshop on Real Time Pricing and Load Management Opportunities in New York State*, March 12 and 13, 1986 (with A. Faruqi).
29. "The Key Role of Experimental Design in Assessing Customer Behavior," prepared for *Proceedings of Niagara Mohawk Workshop on Real Time Pricing and Load Management Opportunities in New York State*, March 12 and 13, 1986 (with L. R. Christensen).
30. "Overview of Transferability Research: Residential Response to Time-of-Use Rates," in *Annual Review of Demand and Conservation Research: 1984 Proceedings*, Electric Power Research Institute, conference proceedings, EPRI EA-4313, 1985 (with D.W. Caves).
31. "Estimating Residential End-Use Load Shapes," in *Annual Review of Demand and Conservation Research: 1984 Proceedings*, Electric Power Research Institute, conference proceedings, EPRI EA-4313, 1985 (with Kenneth Train).
32. "Load Shape Impacts: Marketing and Rate Alternatives," in *Strategic Planning and Market Assessment for Demand Side Management*, Electric Power Research Institute, conference proceedings, forthcoming, (with D.W. Caves).
33. "Transferability of Customer Response to Residential Time-of-Use Electricity Prices," in *Workshop Proceedings: Planning and Assessment of Load Management*, Electric Power Research Institute, EA-3464, May, 1984 (with D.W. Caves and L.R. Christensen).

34. "Transferability of Residential Response to Time-of-Use Electricity Rates," in *Adjusting to Regulatory, Pricing, and Market Realities*, MSU Public Utility Papers, 1983, (with D.W. Caves, L.R. Christensen, and A. Faruqi).
35. "Time-of-Use Pricing for Residential Electricity Customers: Results from the Wisconsin Experiment," March 1982, (with D.W. Caves and L.R. Christensen) (abridged version appears in *Public Utilities Fortnightly*, March 17, 1983).
36. "The Implications of Demand Charges Under Uncertainty: An Application to Electric Utilities," SSRI Discussion Paper No. 8009, University of Wisconsin, June 1980.

Contract Research Reports:

1. "The Benefits from Water Quality Improvements in Iowa's Lakes," prepared for the Iowa Department of Natural Resources, October, 2006 (with Catherine Kling).
2. "Iowa Lakes Valuation Project: Summary and Findings from Year One", prepared for the Iowa Department of Natural Resources, August, 2003 (with Christopher Azevedo, Kevin Egan, and Catherine Kling).
3. "Enhanced RTP Load Response Model for System Planning and Price Forecasting," draft, prepared for Georgia Power Company, May 11, 1995 (with David Armstrong, Mostafa Baladi, Steve Braithwait, Romkaew Broehm, Anders Gilchrist, David Glyer, Kathy King, and Peter Shatrawka).
4. "Midwest Power System's Residential Energy Study: Final Report, Volume 4: The 1992 Exit Survey Report," draft, prepared for Midwest Power Systems, July 2, 1993 (with Mostafa Baladi).
5. "Midwest Power System's Residential Energy Study: Final Report, Volume 1: Summary of the Evidence from the Voluntary Time-of-Use Program," draft, prepared for Midwest Power Systems, July 2, 1993 (with Mostafa Baladi).
6. "Midwest Power System's Residential Energy Study: Final Report, Volume 2: Extensions of the Basic Usage Analysis," draft, prepared for Midwest Power Systems, July 2, 1993 (with Mostafa Baladi).
7. "Midwest Power System's Residential Energy Study: Final Report, Volume 3: The Pattern of Response to Time-of-Use Pricing," draft, prepared for Midwest Power Systems, July 2, 1993 (with Mostafa Baladi).
8. "Iowa Power Residential Energy Study: The Impact of Voluntary Time-of-Use Rates on Electricity Usage Patterns," Interim report, prepared for Iowa Power, February, 1993.
9. "Real-Time Pricing: Sample Design and Customer Selection," draft report prepared for Georgia Power Corporation, April, 1992 (with Bruce Chapman).
10. "Iowa Power Residential Energy Study: 1991 Baseline Survey Draft Report," prepared for Iowa Power, January 1992 (with S. M. Baladi).
11. "Design of Voluntary Time-of-Use Rate for Residential Customers of Iowa Power," prepared for Iowa Power, December 1989 (with D. W. Caves, L. D. Kirsch and Mark N. Lowry).

12. *Customer Demand for Service Reliability: Existing and Potential Sources of Information*, final report prepared for the Electric Power Research Institute, RP-2801-2, April, 1989 (with D.W. Caves and R.J. Windle).
13. "Estimating End-Use Load Shapes at NMPC," prepared for Niagara Mohawk Power Corporation, November 1988 (with R. J. Windle).
14. "Review of Data Available to Compute End-Use Load Shapes at NMPC," prepared for Niagara Mohawk Power Corporation, November 1988 (with R. J. Windle)
15. *Sample Design for the SC-3A Rate Class*, prepared for Niagara Mohawk Power Corporation, September 6, 1988 (with D. W. Caves).
16. *Demand-Side Management Customer Response, Volume 1: Residential and Commercial Reference Load Shapes and DSM Impacts*, Final report prepared for the Electric Power Research Institute, June 1988, EA-5767 (with D. W. Caves, W. E. Kirsley, C. McDonald and R. J. Windle).
17. *Customer Response to Interruptible and Curtailable Rates*, Volumes 1, 2 and 3, Final Report prepared for the Electric Power Research Institute, EM-5630, March 1988.
18. "Analysis of the Wisconsin Electric Residential Rate Experiment, Volume 1: Summary of Findings from the Wisconsin Residential Rate Experiment," prepared for Wisconsin Electric, March 1987 (with R. Baumgartner, D. W. Caves, L. R. Christensen and R. Sweeney).
19. "Analysis of the Wisconsin Electric Residential Rate Experiment, Volume 2: Design and Implementation of the Wisconsin Residential Rate Experiment," prepared for Wisconsin Electric, March 1987 (with R. Baumgartner, D. W. Caves, L. R. Christensen and R. Sweeney).
20. "Analysis of the Wisconsin Electric Residential Rate Experiment, Volume 3: The Impact of Time-of-Use Rates on On-Peak and Off-Peak Electricity Usage," prepared for Wisconsin Electric, March 1987 (with D. W. Caves, L. R. Christensen and R. Sweeney).
21. "Analysis of the Wisconsin Electric Residential Rate Experiment, Volume 5: Extensions of the Time-of-Use Model," prepared for Wisconsin Electric, March 1987 (with D. W. Caves, L. R. Christensen, K. A. Kuester and R. Sweeney).
22. "Analysis of the Wisconsin Electric Residential Rate Experiment, Volume 6: Customer Response to Inverted Block Rates," prepared for Wisconsin Electric, March 1987 (with D. W. Caves, L. R. Christensen and K. A. Kuester).
23. "Analysis of Pacific Gas and Electric Company's Voluntary Time-of-Use Pricing Experiment for Residential Customers," prepared for Pacific Gas and Electric, August 15, 1985 (with D. W. Caves and K. A. Kuester).
24. *Residential Response to Time-of-Use Rates, Volume 4: Assessing RETOU's Out-of-Sample Performance*, Final Report prepared for the Electric Power Research Institute, EA-3560, March 1987 (with D. W. Caves, L. R. Christensen, and R. J. Windle).
25. "Real-Time Pricing at Niagara Mohawk Power Corporation, Volume 2: Design of a System, Rates, Marginal Cost, Experimental Design and Analysis," prepared for Niagara Mohawk Power Corporation, 1986 (with D. W. Caves, L. R. Christensen, L. D. Kirsch, and R. L. Sullivan).

26. *Residential Response to Time-of-Use Rates: Development and Demonstration of a Transfer-ability Model*, Volumes 1-3, Final Report prepared for the Electric Power Research Institute, EA-3560, June 1984 (with D.W. Caves and L.R. Christensen).
27. *Combined Engineering/Statistical Approaches to Estimating End-Use Load Shapes*, Volumes 1 and 2, Final Report prepared for the Electric Power Research Institute, EA-4310, May 1984 (with K. Train, R. Windle, and T. Alereza).
28. "Reductions in Peak Usage by Major Appliances Under Time-of-Use Electricity Pricing," prepared for Wisconsin Public Service Corporation, September 4, 1981 (with D. W. Caves and L. R. Christensen).
29. "The Effects of Time-of-Use Electricity Pricing on the Level of Residential Usage During Winter and Summer Months and at the Time of Monthly System Peak," prepared to Wisconsin Public Service Corporation, July 28, 1981 (with D. W. Caves and L. R. Christensen).

Recent Grants and Awards

1. USDA NIFA, "Linking Agricultural Nutrient Pollution to the Value of Freshwater Ecosystem Services," 2016 through 2019 (with Cloe Garnache, Frank Lupi, R. Jan Stevenson, David Hyndman, and Bruno Basso), \$500,000.
2. USDA NIFA, "Behavioral Economics of Phosphorous Use," September 2016 through August 2018, (with Cloe Garnache, Frank Lupi, and Bruno Basso), \$250,000.
3. USEPA Star Grant, "An Integrated Valuation Model Linking Nutrient Reductions to Changing Eco-System Services in Freshwater Systems," September 2016 through August 2019, (with Frank Lupi and R. Jan Stevenson), \$799,074.
4. Iowa Department of Natural Resources, "Understanding the Usage Patterns and Most Desirable Characteristics of Iowa's Rivers and Streams: Phase 2," September 2010 through February 2012 (with Catherine Kling), \$40,000.
5. USEPA, "Data Collection to Support Valuing Water Pollution Reductions in Midwestern Lake Ecosystems," 2/1/2010 through 1/31/2011 (with Catherine Kling and Subhra Bhattacharjee), \$50,000.
6. USEPA, "Recreation Demand and Water Quality in Iowa's Rivers and Streams: A Proposal for Primary Data Collection" 2/1/2010 through 1/31/2011 (with Catherine Kling and Babatunde Abidoye), \$50,000.
7. USDA, NRCS Award, "Water Quality Benefits from Agricultural Conservation Actions and Programs: A Proposal to NRCS," July, 2010 through December, 2010 (with Catherine Kling), \$50,000.
8. Iowa Department of Natural Resources, "Economic Impact and Value of Iowa's Lakes," July 1, 2009 through December 31, 2010 (with Catherine Kling and Dan Otto), \$128,658.
9. Iowa Department of Natural Resources, "Iowa Rivers and River Corridors Recreation Survey," June 1, 2009 through December 31, 2010 (with Catherine Kling), \$120,000.

10. Iowa Department of Natural Resources, "Restoring Water Quality in Iowa's Lakes: Assessing the Economic Impact and Establishing a Monitoring Base," 2006-2007 (with Catherine Kling, John Downing, and Dan Otto) \$69,933.
11. Iowa Department of Natural Resources, "Assessing the Benefits and Costs from Water Quality Improvements in Iowa's Lakes", 2006 (with Catherine Kling) \$10,562.
12. NSF Grant, "Social Complexity and the Management of the Commons," (with Catherine Kling) \$251,380
13. NSF/EPA Star Grant, "Valuing Water Quality in Midwestern Lake Ecosystems: Temporal Stability and the Role of Information in Value Formation," \$444, 782.
14. Iowa Department of Natural Resources, "The Economic Value of Preserving and Restoring Water Quality in Iowa's Lakes," (with John Downing, Catherine Kling, and Jinhua Zhao) \$81,000.
15. USDA National Research Initiative Competitive Grants Program, "Information Exchange in Farmers' Adoption of Conservation Tillage Practices," 2000-2001 (with Jinhua Zhao), \$88,000.
16. National Science Foundation/ Environmental Protection Agency Joint Awards Competition, "An Examination of Utility Consistent Approaches to Modeling Corner Solutions in Recreation Demand," 1998-2000 (with Catherine Kling and Daniel Phaneuf), \$134,759.
17. Iowa Corn Promotion Board, Iowa Pork Producers Association, and the Iowa Soybean Promotion Board, "A Survey of Iowa's Hog Production and Waste Management Practices," 1997-98 (with John Lawrence, John Miranowski, and Phillip Baumel), \$30,000.
18. National Science Foundation/ Environmental Protection Agency Joint Awards Competition, "Updating Prior Methods for Non-Market Valuation: A Bayesian Approach to Combining Disparate Sources of Environmental Values," 1996-1998 (with Catherine Kling), \$210,000.
19. Environmental Protection Agency Competitive Grant, "The Robustness of Welfare Estimates for Environmental Goods from Discrete Choice Recreational Demand Models," 1995-1997 (with Catherine Kling), \$87,912.

Courses Taught

Iowa State University

101	Principles of Microeconomics
371	Introductory Econometrics
380	Undergraduate natural resource and environmental economics
480	Intermediate natural resource and environmental economics
533	Business and Economic Decision Tools
581	Advanced Environmental Economics
641	Advanced Production Economics
671	Econometrics I
673	Microeconometrics
680	Advanced Resource Economics

Michigan State University

AFRE835	Introductory Econometrics
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AFRE923	Advanced Environmental and Resource Economics
EC450	Economics of Environmental Policy
EC823	Applied Econometrics
ESP802	Human Systems and the Environment

Departmental Service

Iowa State University

Director of Graduate Studies, 1998-2000
 Chairperson, AAEA Quality of Communications Award nominating committee, 1993-94
 Chairperson, Agricultural Economics Faculty Recruiting Committee, 1994-95
 Chairperson, Alumni Awards Committee, 2011-12
 Chairperson, Computer Committee, 1991-94, 2003-2010
 Chairperson, Faculty Recruiting (Econometrics), 2003-2004
 Chairperson, Faculty Recruiting (Cooperative Extension), 2011-12
 Chairperson, Graduate Admissions, 1998-2000
 Chairperson, Graduate Placement, 1998-2000
 Chairperson, Graduate Advisory Committee, 1998-2000, 2007-2008
 Chairperson, Promotion and Tenure Committee, 2009-2010
 Chairperson, Natural Resource Qualifying Exam Committee, 1989, 1991-93, 1996, 1998
 Chairperson, Reading Room Committee, 2003-2004
 Budget Advisory Committee, 2004-2005
 Computer Committee, 1994-97, 2006-2008
 Economics Council, 1993-95, 2011-2012
 Econometrics Qualifying Exam Committee, 1989, 1990
 Faculty Recruiting Committee, 1989-90, 1993-95, 2002-2003, 2012
 Graduate Advisory Committee, 1997-98, 2002-2003, 2007-2008
 Graduate Admissions Committee, 1997-98, 2010-2012.
 Graduate Curriculum Committee, 2000-2001
 Microeconomics Qualifying Exam Committee, 1990-91, 1995-96
 M.S. Thesis Award Committee, 1988-1991
 Natural Resource Qualifying Exam Committee, 1994-95, 1996
 Production Qualifying Exam Committee, 1996
 Promotion and Tenure Committee, 1997-98, 2001-2003, 2010-2011.

Michigan State University

Chairperson, ESPP Graduate Program Committee 2016-present
 Chairperson, Recruiting Committee (Water/Development) 2014-2015
 Member, Advisory Committee 2017-19
 Member, Extended Advisory Committee 2015-16
 Member, Reading Committee (Anderson) 2014
 Member, Computer Committee 2014-2016

University Service

Chairperson, Computer Committee - College of Agriculture, 1995-96
 Chairperson, Computer Committee – College of Liberal Arts and Sciences, 2008-09
 Vice-Chairperson, Computer Committee - College of Agriculture, 1994-95
 ITS Budget Advisory Committee, 2009-present
 Water Resources Interdepartmental Program Committee, 1989-2001
 Environmental Studies Program Committee, 1989-1997

Computer Committee - College of Agriculture, 1994-5, 1996-97, 2006-2012
 Computer Committee – College of Liberal Arts and Sciences, 2003-2009
 University Computer Committee, 1995-96, 2008-09

Professional Service

Co-Editor, *Journal of the Association of Environmental and Resource Economists*, 2014-present.
 Transitional Editorial Team, *Journal of the Association of Environmental and Resource Economists*, 2013.
 Managing Editor, *Journal of Environmental Economics and Management*, 2001-2006
 Transition Editor, *Journal of the Association of Environmental and Resource Economists*, 2013
 Associate Editor, *Environmental and Resource Economics*, 2010-2012
 Editorial Board, *Australian Economic Papers*, 2004-present
 Scientific Advisory Board, *Environmental and Resource Economics*, 2006-2010, 2013-present
 Co-Chair, Organizing Committee, *2nd Annual AERE Summer Conference*, 2012
 Chair, Western Regional Project (W-133), 1995
 Secretary, Western Regional Project (W-133), 1994
 Teller Committee, American Agricultural Economics Association, 1994
 AAEA Quality of Research Discovery Subcommittee, 1996-99
 Referee for

- *The American Journal of Agricultural Economics*
- *Contemporary Economic Policy*
- *Economic Inquiry*
- *Economic Letters*
- *Empirical Economics*
- *Energy Economics*
- *The Energy Journal*
- *International Economic Review*
- *Journal of Agricultural and Resource Economics*
- *Journal of Applied Econometrics*
- *Journal of Business and Economic Statistics*
- *Journal of Defense Economics*
- *Journal of Econometrics*
- *Journal of Environmental Economics and Management*
- *Journal of Public Economics*
- *Land Economics*
- *Marine Resource Economics*
- *The Review of Agricultural Economics*
- *The Review of Economics and Statistics*
- *Resource and Energy Economics*
- *Transport Research*

PhD. Committees

- Brewer, Dylan (MSU Econ - current)
- Carlson, Alyssa (MSU Econ – current)
- Chen, Maolong (MSU AFRE – current)
- Kyung, Heekwon (MSU Econ – current)
- Li, Haoyang (MSU Econ – current)

- Ross, April (MSU AFRE – current)
- Tanner, Sophia (MSU AFRE – current)
- Tian, Qi (MSU AFRE – current)
- Watten, Asa (MSU AFRE – current)
- Rivera, Nathaly 2018 (MSU AFRE)
- Castro, Miguel 2018 (MSU AFRE)
- Hu, Chaoran, 2107 (MSU AFRE)
- Maria Gonzales Ramirez, 2016
- Jonathan McFadden, 2015
- Mainul Hoque, 2015
- Miyoung Oh, 2014
- Jiaqi Ge, 2014
- Adriana Valcu, 2013
- Fanzheng Yang, 2013
- Lin Yang, 2014
- Huang Ying, 2014
- Xu Zheng, 2014
- Insoo Cho, 2012
- Hai-Lan Yang, 2012
- Hang Qian, 2012
- Jeremiah Richey, 2012
- Bo Xiong, 2012
- Subhra Bhattacharjee, 2010
- Min Wang, 2010
- Jittinan Aukayanagul, 2009
- Yanni Chen, 2009
- Greg Colson, 2009
- Ariun Ishdorj, 2008
- Li Yu, 2008
- Yanni Chen, 2008
- Sergey Rabotyagov, 2007
- Dzmitry Asinski, 2006
- Chris Burkart, 2006
- Shang Wenzhou, 2006
- Jie He (Statistics), 2005
- Moohoun Song, 2005
- Jintao Wu, 2005
- Zhou Chen, 2004
- Cristiano Ferraz (Statistics), 2004
- Ji-Yeon Kim (Statistics), 2004
- Ana Margarida Quelhas (Statistics), 2004
- Shikha Marwah, 2003
- Jay Corrigan, 2002
- Kah-Hoe (Electrical Engineering), 2000
- Somgiat Dekrajangpetch (Electrical Engineering), 1999
- Jutta Roosen, 1999
- Aju Fenn, 1998
- Emmanouil Obessis (Electrical Engineering), 1997

PhD. Committees – Major Advisor

- Donggyu Yi, 2014
- Hocheol Jeon, 2014
- Yonjie Ji, 2013
- Keith Evans, 2011
- Babatunde Abidoye, 2010
- Chih-Chen Liu, 2008
- Mira Nurmakhanova, 2008
- Yongsik Jeon, 2005
- Kevin Egan, 2003
- Yimin Liang, 2003
- Chris Azevedo, 1999
- John Crooker, 1998
- Dan Phaneuf, 1997
- Ramu Govindasamy, 1993

MS Committees

- Hunt, Austin (MSU AFRE)
- Kornelis, 2018 Ari (MSU AFRE)
- Soliman, Adam, 2016 (MSU AFRE)
- Timothy Lennel, 2012
- Lin Yang, 2010
- Jason Cooney, 2006
- Jianhua Zhu (Statistics), 2006
- Jie Zhu, 2006
- Jie He (Statistics), 2005
- Jason Cooney, 2003
- Ivaylo Minkov (Statistics), 2002
- Yimin Liang (Statistics), 2001
- Julio Alonso, 2000
- Cheng Wei (Statistics), 2000
- Xinpeng Wang, 1999
- Masahiro Kondo, 1998
- Vishal Singh, 1997
- Aju Fenn, 1996
- Simanta Mitra (Computer Science), 1991

MS Committees – Major Advisor

- Xiaobo Xiong, 2012
- Jae Bong Chang, 2004
- Ana Margarida Quelhas, 2004
- Ivaylo Minkov, 2002
- Kah-Hoe Ng, 2000
- Cheng Wei, 2000
- Xinpeng Wang, 1999