CURRICULUM VITAE

JOSHUA M. DUKE

Professor of Food and Resource Economics
Professor of Legal Studies
Professor of Economics
Editor, Agricultural and Resource Economics Review
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Food and Resource Economics
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RESEARCH INTERESTS

Land Use, Natural Resource and Environmental Economics, Law and Economics, Property Rights

PROGRAMS OF FUNDED RESEARCH

Evaluation of Farmland Retention Programs, Analysis of Land Use Policy, Effect of Land Use on Environmental Outcomes

PROFESSIONAL APPOINTMENTS

Professor of Food and Resource Economics; Professor of Economics; Professor of Legal Studies; 2008–
Assoc. Prof. of Economics (Joint Appt.), 2006–08
Assoc. Prof. of Food and Resource Economics, 2004–08; Asst Prof., 1998–04
Assoc. Prof. of Legal Studies (Secondary Appt.), 2004–08; Asst Prof., 2002–04; Affiliated Fac., 2000–02
Teaching Asst, Dept. of Econ., Univ. of Wisconsin-Madison, 1998
Research Asst, Dept. of Agric. and Applied Econ., Univ. of Wisconsin-Madison, 1994–98

EDUCATION

Ph.D., Agricultural and Applied Econ., minor in Law, Univ. of Wisconsin-Madison, 1998
M.S., Public Policy Analysis, Univ. of Rochester, 1994
B.A., History and Political Science, Univ. of Vermont, 1992

HONORS AND AWARDS

1. Editor (with Titus O. Awokuse), *Agricultural and Resource Economics Review*
2. Recognition of Outstanding Service, Northeastern Agric. and Res. Econ. Assoc.
3. Editorial Board, *Land Economics*
4. Faculty Affiliate, Center for Critical Zone Research, Univ. of Del.
5. Chair's Award for Academic Excellence (outstanding research and instructional impact), Dept. of Food and Res. Econ., Univ. of Del.
6. New Castle County Farmland Advisory Committee, Del., Appointed by County Executive
7. Executive Board Member (elected), Northeastern Agric. and Res. Econ. Assoc.
8. Faculty Advisory Board of the Center for Teaching Effectiveness, Univ. of Del.
9. Who's Who in Agriculture Higher Education
10. Visiting Associate Professor (elected), Dept. of Law, Faculty of Econ. Manage., Slovak Agric. Univ.
11. Fellow, Institute for Transforming Undergraduate Education, Univ. of Del.
12. Doctoral Dissertation Fellowship, Lincoln Institute for Land Policy, Cambridge, Mass.
13. Phi Beta Kappa, *Cum laude* graduate, Departmental Honors, Political Science, Univ. of Vermont
14. Phi Alpha Theta, Univ. of Vermont, incl. Chapter President, Chapter Vice-President

PUBLICATIONS

Journal Articles, Chapters, and Law Review Articles

1. Klaus Moeltner, Robert J. Johnston, Randall S. Rosenberger, and Joshua M. Duke. Forthcoming. Benefit transfer from multiple contingent experiments: A flexible two-step model combining individual choice data with community characteristics. *American Journal of Agricultural Economics* (Principal paper, not refereed) (forthcoming).
2. Johnston, Robert J. and Joshua M. Duke. Forthcoming. Informing preservation of multifunctional agriculture when primary research is unavailable: An application of Meta-Analysis. *American Journal of Agricultural Economics* (Principal paper, not refereed) (forthcoming).
3. Duke, Joshua M. and Robert J. Johnston. Nonmarket valuation of multifunctional farm and forest preservation, in *New Perspectives on Agri-Environmental Policies: A Multidisciplinary and Transatlantic Approach*, ed. Stephan Goetz and Floor Brouwer. Routledge. (forthcoming).
4. Johnston, Robert J. and Joshua M. Duke. 2009. Willingness to pay for land preservation across states and jurisdictional scale: Implications for benefit transfer. *Land Economics* 85(2):217-37.
5. Duke, Joshua M. 2008. Estimating Amenity Values: Will It Improve Farmland Preservation Policy? *Choices* 23(4-Fourth Quarter):11-15.
6. Duke[+], Joshua M. and Titus O. Awokuse[+]. Assessing the effect of bilateral collaborations on learning outcomes. *Review of Agricultural Economics* 31(2):344-358 ([+]senior authorship).
7. Duke, Joshua M. 2008. Private property land ownership rights in rural America. In *Encyclopedia of Rural America*, 2nd, Ed. Gary A Goreham, pp. 779-782.
8. Johnston, Robert J. and Joshua M. Duke. 2008. Benefit transfer equivalence tests with non-normal distributions. *Environmental and Resource Economics* 41:1-23.
9. Johnston, Robert J. and Joshua M. Duke. 2007. Willingness to pay for agricultural land preservation and policy process attributes: Does the method matter? *American Journal of Agricultural Economics* 89(4):1098-1115
10. Duke, Joshua M. and Lori Lynch. 2007. Gauging support for innovative farmland preservation techniques. *Policy Sciences* 40:123-55
11. Borchers, Allison M., Joshua M. Duke, and George R. Parsons. 2007. Does willingness to pay for green energy differ by source? *Energy Policy* 35:3327-34
12. Duke, Joshua M. and Lori Lynch. 2006. Four classes of farmland retention techniques: Comparative evaluation and property rights implications. *Land Economics* 82(2):189-213
13. Awokuse, Titus O. and Joshua M. Duke. 2006. The causal structure of land price determinants. *Canadian Journal of Agricultural Economics* 54(2):227-45
14. Aull-Hyde, Rhonda, Sevgi Erdogan, and Joshua M. Duke. 2006. An experiment on the consistency of aggregated comparison matrices in AHP. *European Journal of Operational Research* 171:290-95
15. Malcolm[+], Scott A., Joshua M. Duke[+], and John Mackenzie. 2005. Valuing rights of first refusal for farmland preservation policy. *Applied Economics Letters* 12:285-88 ([+]senior authorship)
16. Duke, Joshua M. 2004. Participation in agricultural land preservation programs: Parcel quality and a complex policy environment. *Agricultural and Resource Economics Review* 33(1):34-49
17. Duke, Joshua M. and Thomas W. Ilvento. 2004. A conjoint analysis of public preferences for agricultural land preservation. *Agricultural and Resource Economics Review* 33(2):209-19
18. Duke, Joshua M. and Robert Ehemann. 2004. An application of water scarcity pricing with varying threshold, elasticity, and deficit. *Journal of Soil and Water Conservation* 59(2):59-65
19. Duke, Joshua M. 2004. Institutions and land-use conflicts: Harm, dispute processing, and transactions. *Journal of Economic Issues* 38(1):227-52
20. Duke, Joshua M., Eleonóra Marišová, Anna Bandlerová, and Jana Slovinska. 2004. Price repression in the Slovak agricultural land market. *Land Use Policy* 21(1):59-69
21. Duke, Joshua M. and Kristen A. Sentoff. 2003. Managing isolated wetlands after *Solid Waste* and *Tahoe*: The case of Delaware. *Journal of Land Use and Environmental Law* 18(2):355-76
22. Duke, Joshua M. and Laura A. Csoboth. 2003. Increased scientific capacity and endangered species management: Lessons from the red wolf conflict. *Drake Journal of Agricultural Law* 8(3):539-90
23. Duke, Joshua M. and Ryan P. Jost. 2003. Promoting mediation in property rights conflicts. *Land Economics* 79(1):29-37

24. Duke, Joshua M. and Scott A. Malcolm. 2003. Legal risk in agriculture: Right-to-farm laws and institutional change. *Agricultural Systems* 75(2-3):295-303
25. Duke, Joshua M. 2003. A web-based interface for student peer review, problem-based learning, and peer pressure. *Journal of Natural Resources and Life Sciences Education* 32:52-6
26. Duke, Joshua M., Robert W. Ehemann, and John Mackenzie. 2002. The distributional effects of water quantity management strategies: A spatial analysis. *The Review of Regional Studies* 32(1):19-35
27. Duke, Joshua M. and Rhonda A. Hyde. 2002. Identifying public preferences for land preservation using the analytic hierarchy process. *Ecological Economics* 42(1-2):131-45

Manuscripts Currently under Review

1. Duke, Joshua M., Allison M. Borchers, Robert J. Johnston, and Sarah Chatterson. Contracts for Sustainable Management: Benefit Estimates on Preservation and Conservation from a Choice Experiment. Under second review at *Journal of Soil and Water Conservation.*
2. Johnston, Robert J. and Joshua M. Duke. The Importance of Socioeconomic Adjustments within Choice Experiment Benefit Function Transfer: Is the Common Wisdom Correct? Revise and resubmit at *Resource and Energy Economics*.

Manuscripts to Be Submitted

1. Aull-Hyde[+], Rhonda and Joshua M. Duke[+]. Group choice: A comparison of three AHP aggregation procedures and the simple majority voting rule ([+]senior authorship).
2. Duke, Joshua M. and Robert J. Johnston. Stated preference welfare estimates and quasi-public goods: Informing optimal provision when benefits may be capitalized.
3. Lynch, Lori and Joshua M. Duke. Economic Benefits of Farmland Preservation.

GRANTS

Research Grants (Competitive, External)

1. USDA, AFRI, *Understanding the Appreciation of Preserved Farmland Values and Evaluating Policies to Enhance Farmers' Access to Preserved Farms*.
   $_____ ($68,270 to UD), B.J. Shilling (PD); Project Leaders (Co-PIs): J.M. Duke , J.D. Esseks, L. Lynch; Senior Personnel (Co-PIs): P.D. Gottlieb, L.J. Marxen, K.P. Sullivan, 2009-11.
2. USDA, ISE, *Sustainable Agriculture and Watershed Management in Developing Countries: Enhancing International Education, Research, and Extension Opportunities.*
   $123,506 ($100,000 to UD, $23,506 cost share), S.P. Inamdar (PI), T.O. Awokuse, J.M. Duke, D.J. Hansen, J.T. Sims (co-PIs), 2008-10.
3. USDA-ERS, *Applying Economic Experiments to Improve the Design and Implementation of Conservation Programs*
   $332,104 ($132,601 to UD, $93,879 to UMD, $30,000 ERS cost share to UD, $20,000 ERS cost share to UMD, $36,480 UD match, $19,144 UMD match), K. Messer, M. Weinberg (PIs), J. Duke, D. Hellerstein, N. Higgins, B. Kirwan, L. Lynch, M. Roberts (co-PIs), 2007-09
   Also involved in this research project:
   $20,000 CANR Seed Grant, K. Messer (PI), J. Duke (co-PI)
4. USDA, NRCS, *Demonstrating Sust. Integration of Value-Added Manure Products into 21st Cent. Farming*
   $427,536 ($213,768 federal funds awarded, plus matches by UD and St. Andrew's), T. Sims (PD), J. McGrath, S. Barton, J. Duke, S. Inamdar, J. McDermott, J. Sparks, D. Tallamy, M. Hardesty, L. Irelan (Collaborators), 2006-09
5. Delaware Water Resources Center (*J.M. Duke is PI on all*)
   $3,500, M. Ruppell (Intern), *Endangered Species on the Delaware River: Ecological, Economic and Institutional Concerns*, 2009-10
   $3,500, A. Borchers (RA), S. Chatterson (Intern), *Willingness to Pay for Sustainable Agric. Practices in an Urbanizing Region*, 2007-08
   $3,500, S. Mayer (Intern), *Benefit-Cost Analysis of Pelletized Broiler Litter in Agro. Crop Prod. & Turf Grass Mgt.*, 2007-08