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422 Taylor Hall
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Research Interests: environmental & natural resource economics; land use; spatial modeling; regional economics; GIS applications

Professional Experience:

Assistant Professor (8/05 – Present), Department of Agricultural and Applied Economics, University of Wisconsin, Madison, WI

Graduate Research Assistant (9/01 – 6/05), Department of Agricultural and Resource Economics, Oregon State University, Corvallis, OR

Economist (7/04 – 6/05), U.S. Forest Service, PNW Research Station, Corvallis, OR

Graduate Research Assistant (9/99 – 6/01), University of Maine, Orono, ME

Software Engineer (10/97 – 3/99), Roadmap Technologies, Stoneham, MA

Education:

PhD– Oregon State University (2005)

Agricultural and Resource Economics
Primary Field: Environmental & Natural Resource Economics
Dissertation Title: *Managing the Spatial Configuration of Land: The Economics of Land Use Policies for Habitat Fragmentation.*

MS- University of Maine at Orono (2001)

Resource Economics & Policy
Specialty: Environmental & Natural Resource Economics
Thesis Title: *Public Conservation Land and Economic Growth in the Northern Forest Region.*

BS- University of Colorado at Boulder (1997)

College of Engineering and Applied Science
Major: Applied Mathematics Minor: Economics

Teaching Experience:

Spatial Modeling in Resource Economics (Graduate)

Environmental Economics (Undergraduate)

Natural Resource Economics (Undergraduate)

Awards:

- D. Barton DeLoach Distinguished Graduate Fellowship (Acad. Yr. 2004-05)
- Emery Castle Graduate Scholarship (Acad. Yr. 2003-04)
- University of Maine Graduate Fellowship (Acad. Yr. 2000-01)
- Gloria Barron Wilderness Society Scholarship (Acad. Yr. 2000-01)

Refereed**Publications:**

Lewis, D.J., and A.J. Plantinga. 2006. "Policies to Reduce Habitat Fragmentation: Combining Econometric Models with GIS-Based Landscape Simulations." Forthcoming in *Land Economics*.

Alig, R.J., D.J. Lewis, and J.J. Swenson. 2005. "Is Forest Fragmentation Driven by the Spatial Configuration of Land Quality? The Case of Western Oregon." *Forest Ecology and Management*, 217: 266-274.

Lewis, D.J., G.L. Hunt, and A.J. Plantinga. 2003. "Does Public Lands Policy Affect Local Wage Growth?" *Growth and Change*, 34(1): 64-86.

Lewis, D.J., G.L. Hunt, and A.J. Plantinga. 2002. "Public Conservation Land and Employment Growth in the Northern Forest Region." *Land Economics*, 78(2): 245-259.

Lewis, D.J. 2001. "Easements and Conservation Policy in the North Maine Woods." *Maine Policy Review*, 10(1): 24-36.

Working Papers:

Lewis, D.J., and B. Provencher. 2006. "The Implications of Heterogeneous Preferences for Environmental Zoning." Working Paper.

Lewis, D.J., Barham, B.L., and K. Zimmerer. 2006. "Spatial Externalities in Agriculture and the Environment: Empirical Identification and Policy Implications." Working Paper.

Lewis, D.J., Plantinga, A.J., and J. Wu. 2006. "Landscape Conservation to Reduce Habitat Fragmentation." Working Paper.

Miscellaneous**Publications:**

Lewis, D.J., and A.J. Plantinga. 2005. "The Role of Conservation Lands in Regional Economies: The Case of the Northern Forest Region." Forthcoming in *Advancing the Land Conservation Debate in the New Millennium: Economics, Technology, and Policy*, Eds. Gustanski, J.A., Hollenhorst, S., Harris, C., and E. Brabec., Island Press.

Lewis, D.J., and A.J. Plantinga. 2004. "Research Methods to Address the Economics of Forest Habitat Fragmentation." U.S. Forest Service General Technical Review, PNW-GTR-626.

Rashford, B.S., D.J. Lewis, R.M. Evonuk, and B.A. Weber. 2003. "Economic Interrelationships in a Small Farming Area: Towards an Estimate of the Threshold of Agricultural Production for Sustainable

Farming.” Working Paper #03-101, January 2003, Department of Agricultural and Resource Economics, Oregon State University.

Lewis, D., and A.J. Plantinga. 2001. “Public Conservation Land and Economic Growth in the Northern Forest Region.” Maine Agricultural & Forest Experiment Station Misc. Pub #748.

**Presentations
(Conferences & Invited):**

The Implications of Heterogeneous Preferences for Environmental Zoning. *American Agricultural Economics Association Annual Meeting*, Long Beach, CA, July, 2006.

Optimal Reduction of Forest Fragmentation with Incomplete Information: An Application to South Carolina. *Invited seminar, Department of Applied Economics, University of Minnesota*. March, 2006.

Optimal Landscape Conservation with Habitat Fragmentation Effects.

- *Allied Social Science Association Annual Meeting*, Boston, MA, January, 2006.
- *American Agricultural Economics Association Annual Meeting*, Providence, RI, July, 2005.

Policies for Forest Fragmentation: Combining Econometric Models with GIS-Based Landscape Simulations.

- *American Agricultural Economics Association Annual Meeting*, Denver, CO, August, 2004.
- *Western Forest Economists Meeting*, Welches, OR, May, 2004.

Land Use and Habitat Fragmentation: Economic Causes and Ecological Consequences, *Overcoming Barriers to Sustainable Forestry: Critical Issues, Current Findings and Ongoing Research in the Pacific Northwest*, Portland, OR, November, 2003.

Land Conservation and Economic Growth in the Northern Forest, *Land Conservation Summit 2000*, Minneapolis, MN, July, 2000.

Affiliations:

Association of Environmental and Resource Economists
American Agricultural Economics Association
Gamma Sigma Delta (Honor Society of Agriculture)

Service:

Reviewer, *Land Economics*; *Journal of Environmental Economics and Management*; *Land Use Policy*.