

DAVID NEWBURN

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CURRENT EMPLOYMENT

2003-
present Research Associate, Department of Agricultural and Resource Economics,
University of California, Berkeley.

EDUCATION

Ph. D. Environmental Science, Policy and Management, University of California, Berkeley. 2002.
B. S. Physics (high honors in physics), University of Maryland, College Park. 1991.

Dissertation Spatial economic models of land-use change and conservation targeting strategies
Fields Environmental and resource economics, urban and regional economics, conservation
planning, spatial econometrics

SELECTED AWARDS AND GRANTS

Fisher Center for Real Estate and Urban Economics Grant, 2005-2006.
Ciriacy-Wantrup Postdoctoral Fellowship in Natural Resource Economics, 2003-2005.
Environmental Protection Agency Science to Achieve Results (EPASTAR): Futures Research in
Socio-Economics, 2002-2004.
Lincoln Institute for Land Policy Dissertation Fellowship, 2001-2002.
Giannini Foundation of Agricultural Economics Grant, 1999-2001.
University of California Graduate Fellowship, 1998-1999.
University of Maryland Honors Scholarship, 1987-1991.
Phi Beta Kappa, 1991.

RESEARCH PAPERS

Newburn, D. and P. Berck. "Modeling suburban and rural residential development beyond the
urban fringe". *Land Economics*, (forthcoming).
Newburn, D., P. Berck and A. Merenlender. 2006. "Habitat and open space at risk: targeting
strategies for land conservation". *American Journal of Agricultural Economics*, 88(1):28-42.
Newburn, D., S. Reed, P. Berck, and A. Merelender. 2005. "Economics and land-use change in
prioritizing private land conservation". *Conservation Biology*, 19(5):1411-1420.
Gong, P., S. Mahler, G. Biging and D. Newburn. 2003. "Vineyard identification in an oak
woodland landscape with airborne digital camera imagery". *International Journal of Remote
Sensing*, 24(6): 1303-1315.

WORKING PAPERS

- Newburn, D. and P. Berck. "Spatial structure in the rural-urban fringe"
Lohse, K., D. Newburn, C. Brooks, J. Opperman, and A. Merenlender. "Forecasting land-use change and cumulative watershed effects on salmonid habitat".

SELECTED TECHNICAL REPORTS

- Brooks, C., E. Heaton, D. Newburn, and A. Merenlender. 1999. "Modeling vineyard expansion in California's North Coast: developing statistical models and evaluating consequences for surrounding oak woodland landscapes". *Nineteenth Annual ESRI User Conference Proceedings*. 21 pp.
Newburn, D. 1995. "Water resources and economic development in Namibia". *Technical Report for Conservation International*, 15 pp.

CONFERENCES AND INVITED PRESENTATIONS

- Newburn, D. and P. Berck. 2005. "Habitat and open space at risk of land-use conversion". *Association of Environmental and Resource Economics Summer Workshop: Natural Resources at Risk*. Grand Tetons, WY. (Invited speaker)
Newburn, D. and P. Berck. 2005. "A Clean Break: Modeling urban and exurban residential development patterns" *46th Annual Conference of the Association of Collegiate Schools of Planning*. Kansas City, MO.
Newburn, D., S. Reed, P. Berck and A. Merenlender. 2004. "Maximizing the benefits of incentive-based conservation on private lands". *100th Annual Meeting of the American Association of Geographers*. New Orleans, LA.
Newburn, D. and P. Berck. 2004. "Spatial targeting strategies for land conservation". *American Agricultural Economics Association Annual Meeting*. Denver, CO.
Newburn, D. 2003. "Land conservation strategies for habitat and open space protection". *99th Annual Meeting of the American Association of Geographers*. New Orleans, LA.
Newburn, D. 2002. "Spatial estimation of conservation easement values". *Second World Congress of Environmental and Resource Economists*. Monterey, CA.
Newburn, D., A. Merenlender, and P. Berck. 2001. "Spatial economic models of deforestation", *VIII Interamerican Congress on the Environment*. Talca, Chile. (Invited speaker)

TEACHING EXPERIENCE

- University of California, *Undergraduate Mentor*, Berkeley, CA, 2004-2005.
- Mentored undergraduate project on facilitating salmon recovery through alternative policies for agricultural and urban water management.
University of California, *Graduate Student Instructor*, Berkeley, CA, 2000-2001.
- Taught and organized a new graduate course on spatial econometrics for two semesters
University of California, *GIS Center Instructor*, Berkeley, CA, 1999.
- Designed and taught introductory courses in geographic information science (GIS)
WorldTeach/Namibia, *Secondary School Teacher*, Nkurenkuru, Namibia, 1992-1994.
- Served as a physical science, math and geography teacher in a rural African village

OTHER EMPLOYMENT

Mexican Ministry of the Environment and Natural Resources (SEMARNAT), *Consultant*, Mexico City, Mexico, 2002.

Smithsonian Institute/Man & the Biosphere Program (SI/MAB), *Intern*, Washington, DC, 1995-1996.

Conservation International, *Policy Analyst*, Washington, DC, 1995.

United States Department of Agriculture, *Research Technician*, Beltsville, MD, 1994.

OUTREACH PRESENTATIONS

Sonoma County Water Agency. 2005.

“Agricultural and urban water management for salmon recovery”.

The Nature Conservancy: California. 2003.

“Land conservation strategies for habitat and open space protection”.

Mexican Ministry of the Environment and Natural Resources (SEMARNAT). 2002.

“Spatial economic models of deforestation”.

Sonoma County Agricultural Preservation and Open Space District. 2002.

“Spatial estimation of conservation easement values”.

PROFESSIONAL SERVICE

Referee, *American Journal of Agricultural Economics*.

Coordinator, Center for Sustainable Resource Development policy seminar.

FOREIGN LANGUAGES

Spanish: reading (good); verbal (good)

COMPUTER SKILLS

Matlab, Stata, Splus, ARCGIS, GAMS