

Laura Ellyn Grant

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Education:

Doctor of Philosophy, University of California, Santa Barbara; expected graduation: June 2009.
Master of Science in Geophysics, Boise State Univ, Boise ID; May 2005, *Magna Cum Laude*.
Bachelor of Science in Mathematics, Boise State Univ, Boise ID; May 2002, Distinguished Honors.

Honors, Grants and Awards:

- University of California Energy Institute Competitive Research Grant, July 2007 to June 2008
- University of California Regents Scholar for the duration of PhD tenure.
- National Science Foundation IGERT Fellowship, UCSB, Fall 2005 to Summer 2008.
- Patterns of Soil Water Research Grant, Northwest Watershed Research Center, ARS-USDA. Fall 2002 – Spring 2005.
- NASA Idaho EPSCoR Fellowship. Spring 2004 – Fall 2004.
- Boise-Cascade Environmental Research Fellowship. Boise State University Honors College & Boise Co., Spring – Summer 2002.
- Mathematics Researcher, Research Experience for Undergraduates - National Science Foundation, Summer 1999.

Relevant Experience:

Economics & Policy: My general interests are **voluntary provision of environmental goods** – both theoretically and empirically – and **inter-/intra-generational equity**. At present, I am working with Matthew Kotchen (Professor, UCSB) determining the effect of Daylight Saving Time on Residential Electricity Consumption. I have an empirical paper on environmentally-friendly practices in wine making with Magali Delmas (Visiting Professor, UCLA). I assisted Idaho Conservation League with an economic development and wilderness proposal within the state of Idaho; I have traveled to Washington DC four times in the past years testifying about this legislature. Previous work includes research about water property rights with applied Coasian bargaining between the Catskills Watershed Communities, NY and New York City (with Geoff Black and Samia Islam, both of BSU). In November 2003, I attended the Banff Mountain Summit, “Mountains as Water Towers,” in Alberta, Canada as a delegate and volunteer; the presentations covered water management at many levels of governance, science, art, culture, and economics.

Science/Analysis: I completed fieldwork and research for my master's degree in Geophysics with an emphasis on hydrology. My responsibilities included collection of stream flow data, snow surveys, soil water measurements; **leading group field work** campaigns; map creation using GIS and remotely sensed images; module programming for automated data collection; and many forms of analysis such as **statistics and modeling** (Advisors: Jim McNamara, BSU and Mark Seyfried, ARS-USDA). Work with ARS-USDA began as a laboratory technician for soil moisture probe research, a joint project with University of Idaho (Advisors: Mark Seyfried, ARS and Karen Hume, University of Idaho), part-time

from spring 2002 to spring 2004. My duties were creating the materials and methodology for testing soil moisture sensors, and then completing **self-directed** testing, data assimilation, and **data processing**. I also attended many conferences and workshops expanding my skill set and knowledge base: MikeBasin workshop, Interactive GIS tools, Idaho Department of Water Resources, Boise, ID, April 2002. Arctic System Science Program, “All Hands Workshop,” Seattle, WA, February 2002.

Working Papers:

Does Daylight Saving Time Save Energy? Evidence from a Natural Experiment in Indiana. 2008 (with MJ Kotchen).

Eco-Labeling Strategies: The Eco-Premium Puzzle in the Wine Industry. 2008 (with MA Delmas)

The Coase Theorem and large number externalities: The case of the New York City Watershed Agreement. 2005 (with G Black and S Islam).

Selected Publications:

Temperature Effects on Soil Dielectric Properties Measured at 50 MHz. 2007. *Vadose Zone Hydrology* 2007 **6**(4): 759-65 (with MS Seyfried).

Dielectric loss and calibration of the hydra probe soil water sensor. 2005. *Vadose Zone Hydrology* **4**(4): 1070-9 (with MS Seyfried, E Du, and K Humes).

Spatial variation and temporal stability of soil water in a snow-dominated, mountain catchment. 2004. *Hydrological Processes*: **18**(18) 3493–3511 (with MS Seyfried and JP McNamara).

Selected Presentations:

Simulation of vegetation, soil characteristics, and topography effects on soil water distribution and streamflow timing over a semi-arid mountain catchment. Oral Presentation: Fall Meeting, *American Geophysical Union*, San Francisco, CA, December 2004 (with MS Seyfried, D Marks, and A Winstral).

Distribution of soil moisture dynamics in a small mountain catchment. *Invited* Poster Presentation: Fall Meeting, *American Geophysical Union*, San Francisco, CA, December 2003 (with MS Seyfried, D Marks, A Winstral, J McNamara, and M Murdock).

Calibration of soil moisture instrumentation to variable soil, temperature, and water content. Poster Presentation: *American Geophysical Union, Chapman Conference*, Ecohydrology of Semiarid Landscapes. Taos, NM, September 2002 (with MS Seyfried).

Relevant University Graduate-Level Coursework:

- Science-Democracy & Environment
- Physical Hydrology
- Advanced Topics in Watershed Hydrology
- Geographical Information Systems (GIS)
- Remote Sensing and Image Processing
- Econometrics I-III
- Microeconomics I-IV
- Environmental & Resource Economics I, II
- Public Finance I-III
- Seminar in Env/Resource Economics
- Public Participation in Env Decisions I, II
- Advanced topics in Econometric I-III