Katherine Saltanovitz

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EDUCATION
University of California, Berkeley
M.S. Civil and Environmental Engineering, 2003
- National Science Foundation Graduate Research Fellowship

Swarthmore College, Swarthmore, PA
B.S. Engineering, 2002
- Environmental Engineering Study Abroad in Poland, Spring 2001

EIT Certificate, 2002

PROJECTS
Sacramento Hydrologic Model Independent Study
University of California, Berkeley   Spring 2003
- Delineated watersheds using ArcGIS, including calculation of area, elevation, flow paths
- Calibrated and performed sensitivity analysis on Sacramento Model parameters
- Forecasted runoff and streamflow based on precipitation input

Restoring Water Supply to the Mill at Anselma
Swarthmore College, Swarthmore, PA   Fall 2001 – Spring 2002
- Installed evaporation pan, piezometers, and weir to quantify infiltration losses
- Created water balance model in Matlab and predicted future water demand
- Designed excavation, pond lining, and drainage system to prevent infiltration losses

RESEARCH
Nonlinear dynamic response of compacted soils
University of Oklahoma, Norman, OK   Summer 2001
NSF Research Experience for Undergraduates (REU) program, Department of Civil Engineering and Environmental Science
- Designed soil sample stabilization system and prepared samples
- Trouble-shot hydraulic load frame, load cell and data collection system
- Wrote Visual Basic programs to calculate soil properties from raw laboratory data

Lateral transport of *Cryptosporidium parvum* and phosphorus over a soil block
Cornell University, Ithaca, NY   Summer 2000
NSF REU program, Department of Agricultural and Biological Engineering
- Stabilized and transported soil block to laboratory for testing
- Designed and constructed containment system for infected runoff
- Collected runoff samples and analyzed for phosphorus using spectrophotometry

SOFTWARE/ PROGRAMMING LANGUAGES
Proficient in Microsoft Word, Excel, PowerPoint; Familiar with C, HTML, Matlab; Some ArcGIS, MS Access, Visual Basic