

Education

University of California, Berkeley, Dept. of Environmental Science, Policy, and Management
Berkeley, CA 2004-present

Ph.D. Candidate
Dissertation: Identifying Drivers of Ecosystem Change in Sierra Nevada Meadows

Montana State University, Dept. of Land Resources and Environmental Science
Bozeman, MT 2002-2004

M.S. Land Rehabilitation
Thesis: Identifying the Effects of Land Use Change in a Mixed-Use Watershed

Lewis and Clark College, College of Letters and Sciences
Portland, OR 1993-1996
B.A. Anthropology
Thesis: Exploring the Impacts of Reggae Music on Jamaican Social Movements

Work Experience

Graduate Student Researcher, University of California, Berkeley, Allen-Diaz Lab
Berkeley, CA 2004-present
Conduct research on the impacts of livestock grazing in Sierra Nevada meadows, lead crew during field collection, analyze data and manage a large dataset for multi-year study

Graduate Student Researcher, University of California, Santa Cruz, Holl Lab
Chico, CA Summer 2004
Studied the impacts of fragmentation on walnut orchards, identified vegetation, and worked with The Nature Conservancy on conservation efforts

Watershed Coordinator, Bozeman Watershed Council
Bozeman, MT 2003-2004
Played primary role in conducting comprehensive watershed assessment, wrote project funding grants, recruited and managed volunteers

Director's Assistant, Montana Water Center
Bozeman, MT 2003-2004
Researched local water quality issues, collected and analyzed water quality samples, determined land use change using aerial photographs and GIS

Reclamation Scientist, Montana Agricultural Extension Agency
Bozeman, MT 2003-2004
Researched sustainable agricultural practices, identified water quality issues, wrote agricultural modules for growers in Montana and Wyoming

Water Quality Study Coordinator, Bear Canyon Watershed
Gallatin County, MT 2003-2004
Worked with the Forest Service to conduct comprehensive water quality assessment, trained volunteers in water testing and monitoring, wrote final project document

**Work
Experience**

Assistant Watershed Assessment Coordinator, Bozeman Watershed Council
Bozeman, MT 2002-2003
Performed field work for water quality study, created watershed maps using GIS, analyzed data for comprehensive watershed assessment

Director's Assistant and Educational Outreach Coordinator, BioRegions Program
Bozeman, MT 2002
Coordinated program outreach in local schools, facilitated volunteer involvement, managed budget of international non-profit organization

Outdoor Educator, National Outdoor Leadership School
Driggs, ID Summer 2000
Led students in backcountry expeditions, instructed natural history and environmental awareness, taught leadership skills

Mentor, Science Olympiads
Portland, OR Fall 1997
Led small groups of elementary students in learning about science, including designing, conducting, and analyzing experiments

Eco-Tour Guide
Kakadu National Park, Northern Territory, Australia Fall 1997
Led eco-tourist trips in a remote national park, taught natural history, worked with National Park Service on conservation strategies and responsible tourism

**Teaching
Experience**

Graduate Student Instructor, Natural Resource Sampling, UC Berkeley
Berkeley, CA Fall 2006
Assisted field sampling class, independently taught both lectures and labs, graded and facilitated labs

Graduate Student Instructor, Introductory Soils Lab, Montana State University
Bozeman, MT Fall 2002
Independently taught weekly labs, developed lab and field exercises, wrote and graded weekly assignments

Graduate Student Instructor, Holistic Resource Mgmt., Montana State University
Bozeman, MT Spring 2003
Co-wrote syllabus and lesson plans, independently led class discussions on sustainable land use, worked with students on analytical and writing skills

**Service
Experience**

Co-President, Society for Conservation Biology Berkeley Chapter
Berkeley, CA Fall 2006-present
Play primary role in organizing regional conference, lead monthly meetings, participate in society outreach and local service projects

Graduate Student Liaison, Ecosystem Sciences Division
Berkeley, CA Fall 2006-present
Attend bi-monthly faculty meetings, voice student concerns to faculty members, disseminate division updates to graduate students

Service Experience

Statistics Tutor, Phoenix Project
Berkeley, CA *Fall 2006*
Assisted under-served high school students with statistics homework, attended both class and tutoring sessions bi-weekly, mentored students in effective writing and analytical skills

Intern, Teton Regional Land Trust
Driggs, ID *2001*
Researched endangered plants and animals, promoted community awareness of land conservation, contributed to land trust acquisitions

Intern, Environmental Federation of Oregon
Portland, OR *1998*
Researched regional land use issues, wrote for monthly newsletter, assisted with conservation and education projects

Volunteer, Tryon Creek State Park
Portland, OR *1997*
Led nature walks with high school students that emphasized botany of local plants, conservation, and environmental awareness

Co-founder Ecology Club, Lewis and Clark College
Portland, OR *1995*
Founded student organization, chose pertinent reading and facilitated discussions, recruited members

Grants & Awards

Travel Grant Award, UC Berkeley
Berkeley, CA *Fall 2006*
Travel grant to present research at international conference

Departmental Fellowship, UC Berkeley
Berkeley, CA *Fall 2004*
One year of fees and full salary granted from the department

Award for Excellence, Montana State Agricultural Experiment Station *Spring 2003*
Bozeman, MT
Statewide award received for contributions to nutrient management and producer education

Publications

McIlroy, S.K., C. Jones, and J.S. Jacobsen. 2004. Technological Advances in Nutrient Management. Nutrient Management Module No. 14. Montana State Agricultural Extension, Bozeman, MT: 12 Pps. Available at: http://www.agronomy.org/cca/exam_pdf/51.pdf

McIlroy, S.K., C. Jones, and J.S. Jacobsen. 2004. Water Quality Considerations and Regulations. Nutrient Management Module No. 12. Montana State Agricultural Extension, Bozeman, MT: 16 Pps. Available at: http://www.agronomy.org/cca/exam_pdf/48.pdf

Presentations

McIlroy, S.K., B. Allen-Diaz, K.W. Tate, N. McDougald, B. Frost, L. Roche, A. Lind, and R. Grasso. February 15th, 2006. *Assessing the Potential Impacts of Cattle Grazing on Yosemite Toad Populations in the Sierra Nevada, California*. International Society for Rangeland Management Conference, Vancouver, British Columbia