

**Karen K. Allen, M.S.**  
*Curriculum Vitae - November 2007*

**EDUCATION**

- ❖ *M.S., Earth Sciences. 1996*  
Montana State University; Bozeman, MT  
*Thesis: a biogeographical study involving plant ecology, soils, and disturbance ecology entitled*  
*The Distribution of Exotic Plants Adjacent to Campgrounds in Yellowstone National Park, USA.*  
(with Certificate from the Mountain Research Center, Montana State University, for studies in  
*Conservation and Sustainable Development in Mountain Environments.*)
  
- ❖ *B.A., Environmental Sciences (emphasis in biological sciences). 1987*  
University of California; Berkeley, CA

**TEACHING EXPERIENCE**

**Sierra Institute Instructor.** 1/2000 – present. *Rainforest Field Studies: Belize and Guatemala, Sierra Institute, Humboldt State University, Arcata CA.* Teach field science program consisting of four upper division courses approved by H.S.U. (Natural History of Central American Rainforests, Evolution and Conservation of Neotropical Diversity, Environmental Education and the Wilderness Experience, Wilderness Skills and Leadership) to university students throughout the tropical forests, rivers, and coral reefs of Belize and Guatemala. Develop curriculum, plan and execute course logistics, develop and manage budget, facilitate communication and conflict resolution amongst students, and teach in various protected areas and field settings. Plan to teach *Alaska Wilderness: Natural History and Environmental Studies* during summer 2008.

**Research Assistant and Instructor.** 8/1/05 – present. University of Oregon, Bend, OR. Helped design the *Ecological Restoration Field Studies Program, Central Oregon Course* with professors at the Univ. of Oregon, Central Oregon-Bend campus. Curriculum topics include principles of ecological restoration, ecosystems of Central Oregon, plants, climate, soils, river processes, and restoration field strategies and techniques. Taught two field courses summer 2006, and one in 2007.

**Instructor.** 4/2006 – present. Biomimicry Guild. Costa Rica Design Workshop. Co-Instruct a week-long design workshop in Biomimicry, the study of nature and natural principles and their application to human design.

**Teaching Assistant.** 8/93-12/95. *Montana State University, Bozeman, MT.* World Regional Geography and Physical Geography classes. Enhanced curriculum, taught three 2-hour labs each week (subjects included climatology, biogeography, geomorphology, fluvial geomorphology, and soils).

**Wilderness Educator.** 7/91-8/95. *National Outdoor Leadership School (NOLS), Lander, WY.*

Developed curriculum, planned course logistics, and taught month-long wilderness courses in Rocky Mountains and southwestern U.S. emphasizing natural history observations and field techniques, field journaling, wilderness values and ethics, minimum impact camping and travel skills, leadership, wilderness skills and medicine, transference of the wilderness experience and ethics to everyday life, and personal responsibility. Emergency Medical Technician (EMT) certified. Taught seminar on wetland and upland botany, geomorphology and glacial history of western WA to NOLS Instructors.

**Natural Science Teacher.** 9/87-6/90. *Yosemite Institute, Yosemite, CA.*

Taught week-long field courses to children and adults emphasizing natural history of the Sierra Nevada and Yosemite region (botany, riparian and forest ecology, geology, hydrology, plant and wildlife adaptations, native american mythology). Focused on experiential teaching techniques, group challenges/dynamics, cooperative learning, and transference of natural science/wilderness concepts to everyday life. Presented educational slide programs for up to 250 people.

**PROFESSIONAL ENVIRONMENTAL EXPERIENCE**

**Independent Ecological Consultant.** 9/99-present. Bend, OR. Focus on riparian assessments, ecological restoration, and wetland projects. Example Projects include:  
2007 Oregon Department of Transportation, Bend, OR. Vegetation monitoring design, field monitoring, and Weed Management Plan for Crooked River Wetland Mitigation Bank.

- 2007 Upper Deschutes Watershed Council. Riparian assessment, Revegetation Design, and Monitoring Plan for the Whychus Creek Restoration Project at Camp Polk Meadow Preserve.
- 2007 Upper Deschutes Watershed Council. Wetland Delineation for the Whychus Creek Restoration Project at Camp Polk Meadow Preserve.
- 2007 Private Client, Prineville, OR. Wetland Restoration Monitoring near Crooked River. 2005-6: Wetland Delineation, Mitigation Plan, Permitting & Wetland Restoration Services near Crooked River
- 2006 Deschutes Basin Land Trust, Sisters, OR.. Peck's Penstemon Survey, Trout Ck. Conservation Area
- 2006 Deschutes Basin Land Trust, Bend, OR. Hopkins-Young SMA Conservation Easement Monitoring (annually since 2001).
- 2005 Private Client, Bend, OR. Riparian Assessment & Wetland Delineation along Deschutes River, Bend, OR
- 2005 Bureau of Land Management, Prineville, OR. Crooked River Botanical Survey of Springs
- 2005 Brooks Resources, Corporation, Bend, OR.. Wetland Delineation along Deschutes River, Bend, OR
- 2004 Deschutes Basin Land Trust, Bend, OR. Sensitive Plant Survey, Metolius Preserve
- 2004 Deschutes Basin Land Trust, Bend, OR. Wetland Delineation, Metolius Preserve
- 2004 Upper Deschutes Watershed Council, Bend, OR. Black Butte Ranch Riparian Restoration Project
- 2004 Sebastian Shores, Gold Beach, OR. Wetland Mitigation Plan & Wetland Restoration Services
- 2004 Deschutes Basin Land Trust, Bend, OR. Camp Polk Preserve Riparian Plant Restoration Monitoring
- 2004 Deschutes Basin Land Trust, Bend, OR. Metolius Preserve Weed Management Plan
- 2004 Brooks Resources, Corporation, Bend, OR.. Wetland Delineation of 1100 acre property in Prineville, OR
- 2004 Deschutes Basin Land Trust, Bend, OR. Hindman Springs Upland Restoration Project – design, seed collection, planting and grant management
- 2004 Deschutes Basin Land Trust, Bend, OR. Revegetation Planning and Designs, Metolius Preserve
- 2003 Lake Creek Lodge, Camp Sherman, OR. Wetland Delineation and Characterization
- 2002 United States Forest Service, Sisters RD, Sisters, OR. Wetland Delineation for Suttle Lake Bridge Project
- 2002 Deschutes Basin Land Trust, Bend, OR. Riparian Plant Restoration Workshop and Plantings
- 2001 Sandy Sanderson, Bend, OR. Deschutes River Restoration and Streambank Stabilization Project
- 2001 David Evans and Associates, Inc. Bend, OR. Sensitive Plant Survey, Redmond, OR
- 2001 Bend Metro Park and Recreation District, Bend, OR. Deschutes River Riparian Planting Design
- 2001 Deschutes Soil and Water Conservation District, Redmond, OR. Non-native Plant Management Project
- 2001 Deschutes Basin Land Trust, Bend, OR. Riparian Restoration Planning, Conservation Easement Monitoring
- 2000 Willamette National Forest, Oakridge, OR. Class 3 and 4 Stream and Special Habitat Location Project
- 2000 Deschutes Basin Land Trust, Bend, OR. Conservation Easement Monitoring
- 1999 Humboldt-Toiyabe National Forest, Ely, NV. Watershed Assessments and Restoration Needs Inventories

**Land Steward/ Ecologist.** *5/02-1/04. Deschutes Basin Land Trust, Bend, OR.*

Managed over 1400 acres of protected fish and wildlife habitat in four Preserves; monitored over 3200 acres of conservation easements, lands protected for their ecological significance; designed and conducted a Natural History Field Workshop Program: coordinated professional natural scientists and educators to teach full-day natural history field courses, taught Native Plant Families of Camp Polk Meadow Preserve field course; coordinated and managed research, education, and interpretive projects and programs; trained docents and guided interpretive tours; coordinated education programs for local schools to study on Land Trust properties; wrote and executed management and restoration plans; wrote grant applications and administered grants; developed stewardship program for volunteers; worked with volunteers on habitat enhancement projects; conducted habitat assessments, plant surveys, and habitat restoration projects.

**Environmental Scientist/Project Manager.** *7/97-1/00. David Evans and Associates, Inc. Bellevue, WA and Bend, OR*

Involved in all aspects of projects relating to streams, wetlands, soils, botany and ecosystem restoration: wrote proposals; managed projects, including contract negotiations and managing budgets; assessed stream and riparian conditions; designed stream and fish habitat restoration projects; delineated wetlands; surveyed exotic and native vegetation. Obtained federal, state and local environmental permits. Wrote stream restoration and wetland reports, monitoring plans, critical areas studies, environmental assessments, management plans, and other environmental and technical documents.

**Field Research Assistant.** *1/99-2/99. Patagonia, Argentina.*

Studied fluvial processes, geomorphology, and glaciology around Lago Argentino and Rio Santa Cruz in the Patagonian region of Argentina to help reconstruct historical landscape. Research funded by National Science Foundation.

**Stream Ecologist / Wetland Biologist.** 11/96-7/97. *Sheldon & Associates, Seattle, WA.*

Assessed streams and developed stream restoration plans, delineated wetlands, and mapped vegetation; project proposal development and interviews.

**Fluvial Geomorphologist/ Stream Ecologist.** 1/95-5/95. *Dr. Andrew Marcus, Bozeman, Mt.*

Investigated channel planform stability and riparian vegetation changes of Squaw Ck., Gallatin Range, MT using multi-year aerial photos and field reconnaissance. Assessed grazing impacts to tributary streams. Provided recommendations to USFS.

**Restoration Specialist/Project Manager.** 6/90-6/91. *National Park Service, Yosemite National Park, CA.*

Involved in all aspects of meadow and riparian restoration projects including design, mapping, monitoring, seed collection, erosion control measures, final report writing and supervising corporate volunteer crews. Helped stabilize banks of the Merced River through Yosemite Valley as part of a comprehensive riparian restoration project. Conducted plant surveys and created plant species databases for Yosemite Valley meadows, monitored phenology and established herbarium.

**Botanist / Biogeographer.** 5/95-8/95. *United States Forest Service, Choteau, MT.*

Sampled vegetation and physical geographic factors in riparian, wetland, forest and grassland ecosystems to help create a 1:100,000 GIS vegetation layer for Upper Columbia Basin Assessment. Used 1:24,000 spectral quads created from LANDSAT images to locate and classify vegetation cover types. Interpreted aerial photos, mapped using GPS.

## PUBLICATIONS

Allen, K. and Hansen, K. 1999. The Geography of Exotic Plants Adjacent to Campgrounds, Yellowstone National Park, USA. *Great Basin Naturalist*, Oct. 1999.

## TRAINING

- *Biologists at the Design Table.* Course in Biomimicry. May 2005.
- *Wilderness First Responder.* Wilderness Medicine Institute. Currently certified.
- *Leadership and Communication Training.* Deschutes Basin Land Trust. May, 2003.
- *River Processes and Restoration Course.* Dr. Luna Leopold, Teton Science School. July, 2001.
- *Insect Class.* Siskiyou Field Institute (SFI), Ashland, OR. 2001
- *Salmon Snorkeling Training (survey technique).* SFI, Cave Junction, OR. June, 2000.
- *Sedges and Rushes Plant Identification Class.* SFI, Cave Junction, OR. June, 2000.
- *USFS Region 6 Stream Survey Training.* Bend, OR. June 1999.
- *Design of Natural Stream Channels Course.* Inter-Fluve, Inc., Seattle, WA. Oct. 1998.
- *Wetland Certification Program,* Univ. of WA, Seattle. 1997.
- *Wildlands Research Field Studies Program,* San Francisco State University. Wrangell Mountains, Alaska. 1985.

## AWARDS AND HONORS

“**Small Grant**”, Oregon Watershed Enhancement Board, for Habitat Restoration Project, 2002.

**Graduate Fellowship,** Yellowstone Center for Mountain Environments, Montana State University, 1995.

**Graduate Research Grant,** Business and Professional Women’s Association, 1994.

**Graduate Teaching Assistantship,** Montana State University, Earth Science Dept., Bozeman, MT. 8/93-5/95.

**NOLS Instructor’s Course Scholarship.** National Outdoor Leadership School, Lander, WY. 1991.

**U.C. Berkeley Women’s Crew Team Honor Roll.** Berkeley, CA. 1985.

**California School Employee’s Association Scholarship.** For attendance to U.C. Berkeley. 1982.

**Doyle Scholarship for Scholastic Achievement.** For attendance to U.C. Berkeley. 1982.

## COMMUNITY SERVICE

**Advisor.** *Upper Deschutes Watershed Council,* Bend, OR. Community Rivers Program. August, 2003-2004.

**Educator.** *Wolfree Watershed Science Program,* Central Oregon. Teach hands-on field science to 5<sup>th</sup>-12<sup>th</sup> graders. 2002-present.

**Educator.** *Upper Deschutes Watershed Council,* Bend, OR. “Riverfest”, a week-long watershed education event. 2003-present. Lead River Ecology tour.

**Presenter.** *Native Plant Society of Oregon.* “Protection and Restoration of Native Plant Communities on Land Trust Properties” slide show for monthly meeting of High Desert Chapter of the OR Native Plant Society. March, 2003.

**Ecological and Conservation Planning and Surveys.** *Deschutes Basin Land Trust.* Bend, OR. Management planning, restoration planning, plant surveys, and breeding bird surveys. May, 2000-May, 2002.

**Biologist.** *Oregon Department of Fish and Wildlife,* Redband Trout Redd Surveys. Biannually since 2000.

**Wetland Ecologist.** *Project Wet,* Bellevue, WA. Taught wetland ecology workshop. May, 1998.

**Educator.** *Watershed Community Link, Wetland Stewardship Training Program.* Puget Sound Region, WA. Taught community groups about wetland and riparian ecosystems. Spring, 1997.

**Biologist.** *Redmond Stream Team.* Redmond, WA. Spawning salmon surveys. Spring, 1997.

#### **CURRENT PROFESSIONAL AFFILIATIONS & MEMBERSHIPS**

- Native Plant Society of Oregon
- Society for Ecological Restoration
- Society of Wetland Scientists
- Bioneers