

HALLY KIRSTEN BERG
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CAREER OBJECTIVE:

To obtain my M.S. degree in Land Rehabilitation and pursue a career as a biologist/ecologist.

EDUCATION:

Montana State University

Pursing an M.S in Land Rehabilitation
Enrolled: June 2012-present
Expected graduation: Spring 2014

Colorado State University

B.S. in Wildlife Biology
Interdisciplinary Study Certificate in
Conservation Biology
Enrolled: Fall 2006-May 2010
G.P.A: 3.8, graduated Cum Laude

CURRENT RESEARCH:

Montana State University
Dept. Land Resources and
Environmental Sciences
P.O. Box 173120
Bozeman, MT 59717

Position: Graduate Research Assistant
Major Advisor: Dr. Jane Mangold,
Assistant Professor and Extension
Invasive Plant Specialist

Research overview: Increase knowledge about the biology, ecology and integrated management of *Ranunculus acris* (tall buttercup), a poorly understood species on the Montana noxious weed list.

Research is focused on measuring the impacts of tall buttercup on plant community diversity and forage production across varying levels of infestation. Various tall buttercup control strategies are being tested including herbicides, mowing, and fertilization alone and in combination with each other. Additional greenhouse experiments may be conducted in order to better understand tall buttercup biology. The results from these studies will be shared with land managers and producers across the state of Montana with particular emphasis in regions where tall buttercup is problematic.

WORK EXPERIENCE:

U.S. Forest Service
Boulder Ranger District
Arapaho & Roosevelt National Forests
& Pawnee National Grassland
Boulder, CO 80301

Position: Biological Wildlife Technician

Duties: Conducted Flammulated owl surveys in future timber harvest units throughout the months of May and June, gained extensive night survey experience; assisted in a long term study monitoring treated and

untreated harvest units for breeding songbird success through spotmapping; gained extensive experience in nest searching, assigning songbird territories, and in the identification of Western songbirds through sound, sight, and breeding behavior; completed Northern Goshawk surveys and became familiar with identifying potential Goshawk hunting and nesting habitat, monitored previously occupied and current occupied Northern Goshawk nests; monitored bluebird nest boxes throughout June and July, assisted with extensive restoration projects alongside a diverse group of volunteers, scientists and land managers; worked with a group of 6th grade students applying Leave No Trace Principles while picking up trash on Forest Service land; set up remote cameras for various wildlife monitoring projects; assisted in the initial set up and data collection of a long term elk enclosure aspen monitoring study based off of Rocky Mountain National Park's Elk Management Plan; established permanent photo point monitoring surveys in fuels reduction treatment sites; off-road driving on difficult terrain; gained extensive experience using ArcGIS 9.3 creating maps for surveys and from data collected throughout the 2011 and previous field seasons, completed songbird spotmapping with ArcGIS including digitizing songbird territories, created buffers for sensitive species, analyzed vegetation, topographical and aerial photograph layers to delineate potential habitat for sensitive species and to determine survey locations; organized and repaired important wildlife ArcGIS files from previous field seasons; wrote detailed and concise reports; entered and analyzed data in Microsoft Excel; updated records and added data to the U.S. Forest Service Wildlife Database; worked with an interdisciplinary team of scientists and land managers.

Dates of Employment: May 2011-October 2011

**LWR Consultants, Inc.
1001 Jefferson Drive
Berthoud, CO 80513**

Position: Wildlife Biologist

Duties: Completed breeding bird surveys and nesting raptor surveys in a 15,000 acre study area in central Wyoming, surveys were completed in sagebrush habitats; completed Ecological Assessment Studies for various development projects along the Colorado Front Range; completed Technical report editing, and data review for reports.

Dates of employment: Part time May 2008 to June 2012 (work completed on an on call/part time basis)

**National Park Service
Rocky Mountain National Park
Heart of the Rockies; Education and
Outreach Program
1000 Highway 36
Estes Park, CO 80517**

Position: Environmental Education Intern

Duties: Prepared and facilitated environmental education programs in the field and classroom setting to diverse audiences; led winter ecology, snow science, mountain survival and mountain safety snowshoe hikes for school groups ranging from Kindergarten to 12th grade; led station programs covering topics ranging from the geology of the Rocky Mountains, abiotic and biotic factors of an ecosystem, the use of GPS units, elk management in Rocky Mountain National Park; gained experience in daily lesson planning and program development; creation of educational posters through Indesign, prepared informational materials, record keeping.

Dates of Employment: January 2011- May 2011

**Bureau of Land Management
Columbine Ranger District and
BLM Field Office
Bayfield, CO 81122**

Position: Biological Wildlife Technician

Duties: Monitored high altitude domestic sheep allotments and conducted bighorn sheep survey's near Silverton, Colorado; mapped and characterized abandoned mine lands in Silverton using at total station Theodolite and a GPS Leica RTK system; completed water sampling to test ground water in piezometer wells on abandoned mine lands using a peristaltic pump, experience in testing water pH and conductivity, conducted water sampling with the EPA; conducted weed inventories on well pads and BLM land using a Trimble GPS, identified plants to species in field, assisted in using herbicide to spray invasive weed species; completed snag surveys, owl box surveys, Northern Goshawk surveys; extensive ATV experience, off-road driving and navigation in difficult terrain; created data forms and completed data entry; worked with an interdisciplinary team of scientists and land managers.

Dates of employment: June 2010-September 2010

**Department of Forest
Rangeland and Watershed
Stewardship
Restoration Ecology Lab
Colorado State University
Fort Collins, CO 80521**

**Position: Restoration Ecology Field/
Lab Technician**

Duties: Identified plants to species in field, collected and processed soil samples, worked long hours in remote areas as a part of a team, seeded native plant species in restoration projects, measured plant abundance in forest and rangeland settings using biomass, cover, and frequency estimates, measured forest characteristics including DBH, basal area, and canopy cover, performed laboratory analyses including processing soil samples, measuring and counting seeds used in restoration ecology experiments, maintained and set up experiments in a greenhouse, performed data entry and QA/QC on large, complex ecological datasets, created study site maps and graphics used for scientific presentations using MS Office software, catalogued and prepared plant specimens for long term storage in a herbarium, worked as part of a team to build fences, hand rototill soil, and other strenuous manual labor tasks, assisted graduate students and researchers with project design and sampling strategies of restoration ecology experiments in the field, lab, and greenhouse setting.

Dates of employment: March 2009-May 2010

**Department of Bioagricultural
Sciences and Pest Management
Colorado State University
Fort Collins, CO 80521**

Position: Lab and Research Assistant

Duties: Assisted Graduate student with a research project involving invasive plants and fire; completed field work applying herbicide and seeding plots; weighed biomass and entered data into MS Excel; mounted herbarium specimens; assisted facilitating focus groups used to gather the ideas and opinions of farmers, ranchers, and natural resource managers regarding invasive species; maintained plants in CSU greenhouse; and attended lab/project meetings; worked with an interdisciplinary team of scientists and students.

Dates of employment: August 2008-May 2009

EDUCATION HONORS AND AWARDS:

- Graduated Cum Laude from Colorado State University
- Dean's list for the Warner College of Natural Resources: Fall 2006, Spring 2007, Fall 2007, Spring 2008, Fall 2008, Spring 2009, and Spring 2010
- Ernest and Bernice Dice Scholarship (CSU Warner College of Natural Resources): Received for the 2008-2009, 2009-2010 school years
- CSU Alumni Legacy Scholarship: Received for the August 2007-May 2008 school year
- William D. Hatfield Jr. Memorial Scholarship (CSU Warner College of Natural Resources Scholarship): Received for the 2007-2008 school year
- Donald G. Lauridson Memorial Scholarship (CSU Warner College of Natural Resources Scholarship): Received for 2006-2007 school year
- Xi Sigma Pi, Natural Resources Honor Society: Accepted Spring 2009
- National Society of Collegiate Scholars: Accepted Spring 2007

FIELD/ACADEMIC EXPERIENCE:

Natural Resource Ecology and Measurements Pingree Park Campus Colorado State University Fort Collins, CO

Completed the Colorado State University natural resources/ecology field course (summer 2008). Identified over 100 species of trees shrubs, forbs, grasses native to the Rocky Mountain region, identified over 60 fish and wildlife species in the Rocky Mountain region, analyzed range condition trends, collected watershed and stream measurements, collected recreational measurements of campsites and trails, performed ecosystem analyses of mountain shrub, ponderosa pine, lodgepole pine, spruce fir, and alpine communities by sampling and providing written management recommendations, gathered wildlife abundance measurements, performed sampling techniques involving line transects, performed wildlife inventories and collected abundance measurements

STUDENT AND PROFESSIONAL ORGANIZATIONS:

Xi Sigma Pi: Natural Resources Honor Society; The Wildlife Society; The Society for Conservation Biology

ADDITIONAL SKILLS:

- Proficient in using ArcGIS 9.3
- Familiar with Microsoft Excel, PowerPoint, and Word
- Experience using statistical programs including Program MARK, DISTANCE
- Extensive experience using Garmin GPS units, Trimble GPS units, familiar with DNR Garmin
- CPR/First Aid Certified
- Experienced using ATV's and 4wd vehicles in rough terrain
- Field work in wilderness and rugged terrain