

Gretchen Reuning

Education

Colorado State University, Fort Collins, CO

December 2014

Master of Science – Horticulture: Plant Ecophysiology

GPA 3.99; Highest honors

Principia College, Elmhurst, IL

June 2008

Bachelor of Science – Biology: Ecology

GPA 3.89; Highest honors

Employment History

Fort Collins Conservation District - Fort Collins, CO

April 2017 - Present

Forest Program Director

- Responsible for the planning, project design & layout, budgets, and implementation of over 2,000 acres of forest restoration, noxious weed treatment, and stream restoration activities on private land within the district boundaries.
- Partnered with the Natural Resources Conservation Service to deliver and administer Farm Bill programs, specifically the NRCS Environmental Quality Incentives Program.
- Developed and fostered long-term client and partner relationships including landowners and local, state, federal, and non-profit entities
- Responsible for procuring and administering all program revenue including grants and cost-share funds from federal, state, and local partners including application, deliverable development, budget tracking, and ensuring deadlines were met.
- Oversaw and tracked an average annual forest program budget of \$1M, totaling \$6M to date
- Wrote and administered logging contracts, totaling over \$2.6M to date.
- Hired, trained, and supervised a full-time field forestry crew
- Created Forest Management Plans by collecting and analyzing forest inventory data and synthesizing relevant management information into a written technical document.
- Created and organized education and outreach opportunities for partners including local schools, universities, and educational camps.

New West Genetics – Fort Collins, CO

March 2015 – April 2017

Production Manager

- Managed complex projects including multiple parties, contractors, spreadsheets, field sites, and equipment for industrial hemp production and breeding goals
- Coordinated, trained, and supervised production staff to meet goals, protect company assets, and meet timelines
- Collected, recorded, and organized data and plant material inventory in company database
- Developed, followed, and supervised written protocols

Colorado State University – Fort Collins, CO

June 2011 – January 2014

Graduate Research Assistant and MS Student

- Planned and created a 2-year project proposal
- Designed and implemented plant physiological research in growth chambers, greenhouse, and laboratory contexts
- Collected, organized, and analyzed research data in an organized database and synthesized research into a thesis manuscript and peer-reviewed published article
- Developed and followed written protocols for lab and greenhouse experiments for future researchers
- Assistant instructed Hort-576 Advanced Environmental Plant Stress Physiology: developed and taught course materials for lecture

Redwood National and State Parks – Orick, CA

January 2009 – May 2009

Forestry Technician

- Collected forest inventory tree and undergrowth data for second-growth stands in the National Park using variable and fixed-radius plot sampling techniques
- Entered and organized collected data in the Park's Vegetation Management Database
- Used common forestry tools including BAF prisms, diameter tape, compass, clinometer, range-finder, GPS, and 4WD vehicles
- Assisted in leading educational field trips for visiting University classes
- Oversaw other park technicians on forestry and sampling techniques on occasion

Principia College – Elsah, IL

January 2008 – May 2008

Teaching Assistant and Land Stewardship Crew Member

- Designed and implemented course material for introductory ecology, botany, and research-writing courses for 20+ students
- Instructed students on forest inventory and sampling techniques in Great Smoky Mountains National Park
- Organized and supervised laboratory experiments
- Graded coursework
- Taught identification of 100 local tree species
- Assisted with planning and supervision of two multi-day field trips
- Participated in prescribed prairie broadcast burns
- Worked as part of a team to restore prairie and forest landscapes on the college's 2,600-acre campus using chainsaws, herbicide, goats, and weed-eaters
- Responsible for equipment accountability and repair

Adventure Unlimited Ranches – Buena Vista, CO

May 2008 – September 2008

Assistant Forester

- Created a Forest Management Plan for the 1,100-acre private property
- Operated a chainsaw for use in clearing trees for fire mitigation/fuel break
- Marked trees in the property's large ponderosa pine stand for a forest restoration effort
- Supervised and educated volunteers and other ranch employees for thinning projects

Memberships

- Advisory Board Member for Shambhala Mountain Center's Land Stewardship Program
- Advisory Board Member for Front Range Community College's Natural Resources Program
- Northern Colorado Fireshed Collaborative Member

Certifications & Trainings

- Low-Tech Process-Based Restoration of Riverscapes Training
- NRCS Cultural Resources Certification
- Front Range Forest Restoration Collaborative Training
- Game of Logging Level I Directional Felling and Chainsaw Safety Certification

Publications

Reuning, G.R., W.L. Bauerle, J.L. Mullen, J.K. McKay. 2014. *Combining quantitative trait loci analysis with physiological models to predict genotype specific transpiration rates*. Plant, Cell, & Environment. DOI: 10.1111/pce.12429.

Fletcher, R.S., J.L. Mullen, S. Yoder, W.L. Bauerle, G. Reuning, S. Sen, E. Meyer, T.E. Junger, and J