Colleen Hoskins

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EDUCATION

COLORADO STATE UNIVERSITY Fort Collins, CO

P.S.M. Master of Ecosystem Science and Sustainability *December 2025*
- *Focus*: Water Resources and Data Analytics
- *Leadership*: P.S.M. Representative for the ESS Graduate Program Committee

UNIVERSITY OF NEVADA Reno, NV

B.S. Environmental Science *June 2017*

EXPERIENCE

COLORADO STATE UNIVERSITY - ROSSyndicate Fort Collins, CO

Water Database Specialist Intern *January 2025 – August 2025*
- Developed a nation-wide geospatial database of drinking water sources for US National Parks to forecast the security of water supplies for visitors and staff
- Designed reproducible workflows in R and created standardized operating procedures, improving efficiency and accuracy of database management protocols

EASTERN NEVADA LANDSCAPE COALITION *Government Contractor* Carson City, NV; Elko, NV

Weeds Crew Lead *June 2023 - September 2023*

Ecological Monitoring Crew Lead *April 2019 - October 2019*

Conservation
- Surveyed and treated 3,700+ acres of public land, developing invasive plant treatments based on species, growth stage, and infestation severity to support healthy native ecosystems
- Assessed, inventoried, and monitored 100+ plots on rangelands of Eastern Nevada to evaluate ecological indicators and measure the effectiveness of post-wildfire restoration efforts

Leadership
- Coordinated with the Bureau of Land Management to establish seasonal priorities, plan resources, and meet critical deadlines
- Directed project execution, mentored crew members, and managed logistics including schedules, vehicles, equipment, and meals

Data Management
- Captured and shared spatial data using ArcGIS Field Maps and Survey 123, integrating seasonal information with decades of historical monitoring data to track land cover changes
- Applied quality assurance protocols to accurately record and organize field data

TKPOA *Tahoe Keys Property Owners Association* South Lake Tahoe, CA

Water Quality Technician *April 2022 - June 2022*

Water Quality Intern *April 2021 - November 2021*
- Monitored floating plant fragments daily to track species percentages, collecting 60+ cubic feet of weed fragments over 80 days
- Collected weekly water quality data from 70 locations at 5 depths in the water column using YSI ProDSS and OTT Hydromet HL4 Sonde devices to monitor water quality
- Mapped 172 acres of waterways monthly during the plant growth season to visualize seasonal trends in plant density

HEAVENLY SKI RESORT South Lake Tahoe, CA

Ski Instructor *December - April, 2020 - 2024*
- Taught fundamental ski skills while promoting slope etiquette, mountain safety, and teamwork
- Created a fun learning environment to encourage students to develop a lifelong passion for winter sports

SKILLS

Technical: *R (proficient), ArcGIS Pro (proficient), Python for GIS, JavaScript for Google Earth Engine, Microsoft Office*