

ALLISON HACKER

ahacker519@gmail.com | 650-387-5800 | Santa Barbara, CA

EDUCATION

Master of Environmental Science and Management (Expected June 2021)

Bren School of Environmental Science & Management – University of California, Santa Barbara

Specialization: Water Resources Management

Awards: Sustainable Water Markets Fellowship, Forest Sustainability Fellowship (Awarded \$33,000 total)

Bachelor of Science in Biology, Haverford College, Haverford, PA (May 2017)

MASTER'S GROUP PROJECT

Forests to Faucets: Prioritizing fuel reduction projects to protect water resources (4/20-4/21)

Role: Project Manager | **Client:** American Rivers

- Directed project development from initial proposal to final deliverables, managed a 5-person team, served as primary client contact, and collaborated on project tasks.
- Developed a method to strategically locate prescribed fire projects in the Sierra Nevada using fire and erosion modeling and analysis of aquatic habitat, water infrastructure, and treatment feasibility.

WATER RESOURCES MANAGEMENT EXPERIENCE

River Assessment Assistant

American Rivers, Nevada City, CA (10/18- 9/19)

- Planned and executed installation of 16 groundwater wells in 3 meadows to evaluate restoration benefits.
- Compiled research and conducted literature review on the impact of fire on river health and clean water supply in the Sierra Nevada; results used to inform future forest health projects.
- Assessed condition of 4 meadows with wetland delineation and the California Rapid Assessment Method in preparation for environmental permitting.
- Investigated dam removals in California and updated American Rivers' Dam Removal Database to encourage additional research and support for river restoration.
- Created communications materials to highlight project successes, including blog posts and an online story map.

River Scientist and Education Coordinator

Sierra Streams Institute, Nevada City, CA (10/17- 9/18)

- Coordinated citizen scientists in monthly water quality monitoring, stream habitat surveys, and macroinvertebrate and algae sampling at 20+ sites in the Bear and Yuba River watersheds.
- Managed, hired, trained, and mentored 4 undergraduate summer interns to accomplish annual stream surveys
- Developed and managed a science education and mentoring program for young women and secured a \$5,000 grant to ensure its continuation into future years.
- Designed and piloted curriculum to educate over 1,000 students in Nevada County; project funded by a \$90,000 EPA Environmental Education Grant.
- Organized annual speaker series (7 lectures), securing speakers and refreshments, for 100+ attendees.

FIELD, RESEARCH, & TEACHING EXPERIENCE

- **Research Assistant**, University of Nevada, Reno, NV (6/20-9/20)
- **Field Technician**, National Ecological Observatory Network, Land O Lakes, WI (5/17-9/17)
- **Independent Field Research**, Rocky Mountain Biological Laboratory, Gothic, CO (6/16-8/16)
- **Environmental Education Intern**, Hartley Nature Center, Duluth, MN (6/15-8/15)

SKILLS & CERTIFICATIONS

Data analysis and visualization: Microsoft Office; ArcGIS Pro; R Studio; Tableau

Certifications: California Naturalist; Swiftwater Rescue; Firefighter Type II