

GLORIA GRIFFITH HARDWICK

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EDUCATION

MS in Biology, Northern Arizona University, Flagstaff, Arizona

BA in Biology, Western State College, Gunnison, Colorado

PROFESSIONAL EXPERIENCE

2015 **Spring Stewardship Institute an initiative of Museum of Northern Arizona**
Research Associate

Serving as botanist for spring surveys, helping develop research proposals, manage data as well as assisting with project planning and execution.

2014-2015 **Flagstaff Sports Exchange**
Assistant Manager

Sell and trade for outdoor gear and apparel. Provide guidance to customers interested in trying the wide variety of outdoor activities northern Arizona offers.

2011-2014 **Dispatcher for Paratransit Services**
Northern Arizona Inter-governmental Public Transit Authority
Flagstaff, AZ

Dispatch for 4-6 runs per day in the Flagstaff area. Support drivers by informing them of cancellations and client schedule changes as well as road and traffic conditions. Take phone reservations for rides and build the next day's runs and schedule drivers. Enter data and generate monthly reports. Track hours worked by each driver as well as infractions by clients. This is a detail oriented, multitasking job utilizing custom software as well as human phone interaction. Member of Wellness Committee; plan and lead events to encourage healthy living.

2005-2011 **Sales and Service Associate**
Professional River Outfitters
Flagstaff, AZ

Collaborated with a team to produce unforgettable customer experiences primarily on their private Grand Canyon river trips. Guided clients in determining equipment, food and logistical requirements for private white water trips through Grand Canyon and on other southwestern rivers. Produced estimates, assisted with pre- and post trip logistics. Relayed load list and special customer requests to warehouse staff. Once the trip was over closed out invoices; explaining repair and damage charges, relayed balance or credit due to clients.

2002-2012 **Climbing Gym Consultant**
VR Enterprises
Flagstaff, AZ

Enhance the viability of the climbing gym industry by providing business and risk management consulting to individuals opening and operating rock climbing facilities. Collaborate on the development of recreational facility management software. Expert witness in 2 gym litigations.

- 2003-2005 **Public Program Associate**
 Lowell Observatory
 Flagstaff, AZ
- Informed visitors of the ongoing research at Lowell as well as Lowell history and general astronomical findings. Guided visitors on group tours, telescope viewings and presented a variety of outreach programs to general public and school groups. Operated gift shop and assisted in inventory management.
- 2001-2002 **Accreditor**
 Climbing Gym Association
 Outdoor Industry Association
 Boulder, CO
- Collaborated with another accreditor in evaluating risk management practices of climbing gyms. Performed multi-day site visits, co-authored reports on findings and recommendations to improve a gym's risk management practices.
- 1995-2003 **General Manager**
 Vertical Relief Rock Gym (now Flagstaff Climbing)
 Flagstaff, AZ
- Instrumental, along with key employees, in growing a start-up business to viability. Responsible for financial management, planning and human resources. Develop systems for managing and documenting risk, hiring and training staff, facilities maintenance, retail inventory, sales and promotions. Arrange and promote special events. Manage retail shop with \$25-\$30K of inventory. Instruct and guide clients in and out doors.
- 1998 **Native Fish Consultant**
 Environet
 Phoenix, AZ
- Assessed the possible existence of Razorback suckers in upper Fossil Creek, AZ as part of a study to decommission Arizona Public Service hydroelectric plants located on the Fossil Creek.
- 1998 **Research Mentor**
 Northern Arizona University
 Flagstaff, AZ
- Aquatic ecology mentor for Summer of Science Program for high school students and their teachers. Funded by the National Science Foundation.
- 1993-1995 **Aquatic Project Leader**
 Hualapai Tribe, Peach Springs, AZ and
 BIO/WEST, Logan, UT
- Study the effects of interim flows from Glen Canyon Dam on the aquatic resources of the Lower Colorado River from Diamond Creek to Lake Mead.
- 1993-1995 **Aquatic Ecologist**
 Camp, Dresser, McKee
 Helena, MT
- Analyze periphyton communities of streams in SW Montana as part of aquatic biological monitoring for mine development.
- 1992-1996 **Senior Ecologist**
 Northern Arizona University
 Colorado Plateau Research Station
 Flagstaff, AZ
- Conduct aquatic inventory study for Montezuma Castle National Monument: Fish and Herpetofauna.

- 1991-1995 **Founder and Principle Ecologist**
 Plateau Environmental Consultants, Inc.
 Flagstaff, AZ
- Provide work in specific areas of expertise to primary contractors. Write proposals, analyze data and write final reports. Organize and manage equipment, schedule field crews and supervise data collection for a variety of southwestern aquatic studies mostly in Grand Canyon National Park.
- 1991-1994 **Aquatic Ecologist**
 BIO/WEST
 Logan, UT
- Document the life history and ecology of the Humpback Chub in the Colorado River, Grand Canyon.
- 1990-1993 **Professional Ski Patrol** (3 seasons)
 Arizona SnowBowl
 Flagstaff, AZ
- Provide first aid and transport for injured skiers, dispatch patrollers to accident scenes, install signage, perform minor slope maintenance, discipline unsafe skiers.
- 1990-1991: **Instructor/Guide**
 Interlocken Schools, American SW Program
 New Hampshire
- Lead overnight natural history hikes on the San Francisco Peaks.
- 1988-1991: **Educator and Interim Director**
 Public Education Program
 Lowell observatory
 Flagstaff, AZ
- Develop educational programs, hire and schedule educators, coordinate public hours, arrange and conduct special group tours, manage retail shop.
- 1991 **Instructor in Natural History**
 NAU Elderhostel Program
- Lecture on local natural history and guide field trips in northern Arizona.
- 1986 **Bald Eagle Nest Warden**
 U.S. Fish and Wildlife Service
 U.S. Forest Service
- Collect and analyze data on feeding of bald eagle chicks and characterized eagle fishing habitat.
- 1984-1988 **Outdoor Educator**
 Flagstaff Public Schools
 Project Life, Camp Colton
- Taught ecology, aquatic ecology, and survival skills in an outdoor setting. Member of curriculum development team.
- 1984-1986 **Aquatic Ecologist**
 SWCA Associates
 Flagstaff, AZ
- Characterize riparian and aquatic plant communities, water quality assessment, characterization of periphyton communities.

SELECTED PUBLICATIONS AND REPORTS

- Montgomery, W.L., W.C. Leibfried, and G.G. Hardwick. 1993. Beaver Creek Aquatic Study for Montezuma Castle National Monument: Fish and Herpetofauna. First Annual Report. 12pp. Prepared for Northern Arizona University, CPSU.
- Valdez, R.A. and M. Hugentobler (eds.) 1993. Characterization of the Life History and Ecology fo the Humpback Chub (*Gila cypha*) in the Grand Canyon. (Water quality chapter by G. Hardwick). Annual report-1992 to Bureau of Reclamation, Contract No. 0-cs-40-09110. BIO/WEST Report No. TR-250-06. 166pp + appendices.
- Hardwick, G.G., D.W. Blinn, and H.D. Usher. 1992. Epiphytic diatoms on Cladophora glomerata in the Colorado River, Arizona; Longitudinal and vertical distribution in a regulated river. *Southwestern Nat.* 37 (2): 148-156.
- Hardwick, G.G. and G. Warrick. 1986. Eagle nest warden report; Ladders nest, Verde River. 5 pp. Prepared for Prescott National Forest and U.S. Fish and Wildlife Service.
- Usher, H.D., D.W. Blinn, W.C. Leibfried, and G.G. Hardwick. 1986. Cladophora glomerata and its diatom epiphytes in the Colorado River through Glen and Grand Canyons: Distribution and dessication tolerance. 73pp. Glen Canyon Environmental Studies Technical Report No. 16. Final report to Arizona Game and Fish Department.
- Ruffner, G.A. and G.G. Hardwick. 1985. Aquatic habitat survey, Naval Weapons Center, China Lake, California. Report prepared for Dept. of the Navy by James M. Montgomery Consulting Engineers and SWCA, Inc.
- Cudlip, L. R. French, G.G. Hardwick. 1985. Limnological survey of Blue Mesa Reservoir, Gunnison County, Colorado. 86 pp. Report prepared by Bio Environs for U.S. Bureau of Reclamation.
- Mills, S. and G.G. Hardwick. 1985. Biological inventory of the 230 KV San Rafael powerline corridor, Cochise County, Arisona. Report prepared for Arizona Electric Power Cooperative by SWCA, Inc.
- Carothers, S.W. C.O. Minckley, H.D. Usher, W. Jordan, G.G. Hardwick and G. Hofknecht. 1981. A survey of the fishes, aquatic invertebrates, and aquatic plants of the Colorado River and selected tributaries from Lees Ferry (mile 0) to Separation Rapid (mile 240). 401 pp. Report prepared my Museum of Northern Arizona for U.S. Bureau of Reclamation.
- Hardwick, G.G. (nee G. Griffith). 1977. The phenology and productivity of aquatic macrophyte communities in Foxburro Lake, Arizona. 172 pp. MS Thesis, Northern Arizona University.