

RESUME
CURRICULUM VITAE

Susan Bancroft Parsons

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EDUCATION

Graduate Certificate in GeoTechnologies. Idaho State University. June 2011-May 2012
Pocatello, ID

- Geographic Information Systems (GIS).
- Landscape analysis and digital cartography.

Master of Science. Idaho State University. Aug. 2006-Jul. 2009
Pocatello, ID

- Landscape Ecology, Population Genetics, Habitat Modeling, and Herpetology.
- Thesis topic: Gene flow and habitat connectivity in the Great Basin rattlesnake.
- Received National Science Foundation GK-12 Teaching Fellowship 2007-2008.

Bachelor of Science. University of Connecticut. Aug. 1998-Dec. 2002
Storrs, CT

- Major: Biological Sciences, Concentration: Ecology and Evolutionary Biology.
- Member of Wildlife Society and Rock Climbing Club, and Vice President of Outdoor Club.

High School Diploma. Glastonbury High School. Aug. 1994-Jun. 1998
Glastonbury, CT

- Varsity athlete (cross country).

WORK EXPERIENCE

Research Analyst & Data Manager. Idaho State University. June 2014-present
Pocatello, ID

Managing Idaho Landscapes for Ecosystem Services (MILES)
<https://www.idahoecosystems.org>

- Create, compile, and publish geospatial datasets for use with MILES research.
- Collaborate with MILES graduate students and faculty on GIS-centric research projects, models, and publications.
- Provide support for using GIS/geospatial data resources, spatial analyses, and data collection.
- Assist with GIS-centric curriculum development for undergraduate courses.
- Assist with grant proposal preparation.

Reynolds Creek Critical Zone Observatory (CZO)

<http://criticalzone.org/reynolds>

- Deploy and maintain cloud-based data/GIS servers and services for Reynolds Creek Critical Zone Observatory.
- Author and curate streaming data services and web-based mapping applications for data discovery and accessibility.
- Create and update content on the national program and site-specific websites, and the Reynolds Creek informational wiki.
- Collaborate with the CZO data management team to develop sustainability plans/practices aimed at enhancing data collection, curation, and distribution to a variety of audiences.
- Assist graduate students and PIs with GIS data, analyses, and modelling efforts.

GIS Coordinator/Analyst. Bannock County Public Works.

June 2012-June 2014

Pocatello, Idaho

- Intern from June 2012-October 2012
 - Acquire, compile, and manipulate geospatial data for Public Works Department.
 - Produce various GIS-based map products and query reports for County Planners.
- Implement ArcGIS for Server/ArcSDE geospatial data management system.
- Create geospatial databases for landscape features, land-use histories, and development regulations.
- Generate and maintain Dept. of Planning & Zoning webpage, internet-based permitting software web interface, and interactive web maps for internal and public consumption.
- Provide GIS-centric training and support for staff and departments, and assist with department of Planning & Development hiring.

Museum Collection Curation Intern. Idaho Museum of Natural History. May 2011-Aug. 2011

Pocatello, ID

- Assist with curation and database management activities.
- Geo-reference specimen locations and generate an interactive GIS map for editing purposes.
- Identify genus and species for taxidermied bird collection.

Field Technician. Rocky Mountain Biological Lab. summers, June-July, 2010 and 2011
Gothic, CO

- Trap, survey, and collect a suite of carrion beetle species.
- Perform rodent surveys and population censuses.

NSF GK-12 Project Coordinator. Idaho State University Jul. 2008-May 2011
Pocatello, ID

- Administer National Science Foundation GK-12 (Graduate Students in K-12 Education) Project Grant, assist with preparing progress reports to NSF, maintain project website.
- Participate in selection and support of STEM (Science, Technology, Engineering, and Mathematics) graduate students, teachers, and affiliates for multi-year scientific literacy and education program.
- Coordinate efforts of ISU graduate student fellows, grade 6-12 teachers, and ISU faculty participants as they identify and conduct activities designed to enhance scientific literacy in SE Idaho, as well as foster communication skills among STEM researchers.

Student Conservation Association Intern. Joshua Tree National Park. Dec. 2005-Jun. 2006
Twenty-nine Palms, CA

- Field research using radio telemetry, GPS and GIS systems, and pitfall trap surveys.
- Perform wildlife and vegetation surveys, map animal movements and vegetation distributions, and assist with trail closures and post fire re-vegetation efforts.

Lab Coordinator/Staff Research Associate. College of Southern Nevada. Apr. 2004-Dec. 2005
Las Vegas, NV

- Instructional laboratory coordinator.
- Prepare educational biology labs and materials, operate and maintain experimental equipment.
- Inventory and order/prepare bacterial cultures, media, live/preserved material, and chemical solutions, and handle, store, and dispose of hazardous materials properly.
- Coordinate with college staff and faculty to enhance or troubleshoot existing laboratory protocols.

TEACHING EXPERIENCE

Department of Biological Sciences, Idaho State University.

2010-2011

Pocatello, ID

- Studied pedagogical techniques.
- Taught portions of Biology for Non-Majors, Ecology, and Biology Teaching Methods.
- GIS-based undergraduate Ecology Labs.

Marsh Valley High School.

2007-2008

Arimo, ID

- Taught portions of General Biology and AP Biology.
- Developed and taught and Environmental Science class for upperclassmen.

Newington High School.

2003-2004

Newington, CT

- Math/Science Resource Teacher.

GRANTS AND FELLOWSHIPS

- National Science Foundation Graduate Students in K-12 Education Fellowship.
- Wrote and received small research grants from ISU's Molecular Research Core Facility, American Museum of Natural History, and Sigma Xi.

TECHNICAL SKILLS

Computing.

- Microsoft Windows: Operating Systems (up to versions Windows 8, and Server 2016), Microsoft Office professional suite.
- RDBMS: SQL Server, MySQL.
- Geographic Information Systems. ESRI ArcGIS Desktop and Extensions, ArcGIS for Server, Spatial Data Engine (SDE), and ArcGIS Online platform & associated application builders. Landsat/Glovis imagery processing in ArcGIS and ENVI.
- Website Design (Wordpress, Weebly, DreamWeaver) and Content Management (dokuWiki, Expression Engine).
- Various statistical softwares, especially R.
- Cloud Computing: Amazon Web Services (AWS).

Field work.

- Portable GPS mapping units, RTK GPS (base, rover, and atmospheric corrections via Opus), radio telemetry equipment, 4x4 driving, ATV & ROV certified, vegetation and wildlife surveys, soil sampling, and handling wild & venomous animals.

Lab work.

- Animal husbandry.
- DNA sample collection, extraction, and electrophoretic imaging.

ACTIVITIES

East Idaho GIS Regional Resource Center.

- Meet with other local GIS professionals, work on collaborative projects, and facilitate educational outreach activities.

Avid outdoor enthusiast.

- Experienced mountaineer, back-packer, skier, and traditional rock-climber.

Community Outreach.

- Volunteered at Pocatello Animal Shelter and Boise Bully Breed Rescue.