

## Betsy Biology

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### EDUCATION

**Bachelor's of Science, Wildlife** (Wildlife Management & Conservation) May 2016  
Humboldt State University (HSU) Arcata, CA

#### Pertinent Coursework:

- Wildlife Techniques
- Ornithology
- Mammology
- General Botany
- Plant Ecology
- Zoology
- Wildlife Ecology
- Plant Taxonomy
- Environmental Ethics

### RESEARCH PROJECTS

- "Vigilance budgets of green-winged teal in northern California – a comparison of gender", project completed for Ornithology class, HSU. Fall 2015.

### WILDLIFE EXPERIENCE

**Biological Technician (GS-4)** Summers 2014/2015  
USFS – Six Rivers National Forest Eureka, CA

Located and monitored Northern Spotted Owls to determine nesting and reproductive status in the national forest. Conducted Marbled Murrelet surveys and stream surveys (habitat typing, data collection and documentation of fish and amphibians present). Drove 4x4 vehicles, worked in rough terrain, camped in remote areas. Used aerial photo maps, topographic maps, compass, GPS (hand-held) to orienteer and locate survey sites.

**Research Assistant (volunteer)** Jan. 2013 - May 2013  
Jaime Sharpe, M.S. Candidate, HSU Arcata, CA

Worked with graduate student in her study of non-endangered species in the Gasquet area of Six Rivers National Forest. Collected, interpreted, and entered species data in field records. Utilized digitizer to plot all detections for historical records. Mapped and evaluated habitat critical areas as prep work to biological evaluations and proposals.

### COMMUNITY SERVICE

Restoration Volunteer 2016 - present  
Humboldt Fish Action Council Arcata, CA

Plant trees on creek beds to help with fish migration and population. Remove invasive plant species.

### SPECIAL QUALIFICATIONS

- **Wildlife Techniques:** Mist-netting, bird banding, small mammal trapping, radio telemetry.
- **Outdoor Skills:** Backpacking and outdoor experience, use of compass, hand-held GPS.
- **Training & Certification:** Field Orienteering with Map, Compass & GPS (2014), Wilderness First Responder (2014), CPR and First Aid (current), Spotted Owl Survey training (2013).
- **Relevant Activities:** Wildlife Conclave Team, HSU (2014 & 2015).

### REFERENCES:

Luke George, PhD Wildlife Department Humboldt State University Arcata, CA 95521 (707) 826-1234 lgeorge@humboldt.edu	Richard W. Sandburg Wildlife Biologist USFS – Six Rivers N.F Eureka, CA 95501 (707) 445-1721 rws@usfs.gov	Jaime Sharpe, Lecturer Wildlife Department Humboldt State University Arcata, CA 95521 (707) 826-4321 jes@humboldt.edu
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**Examples of additional information that you might include on a resume for Wildlife, Ecology and other biological research or laboratory related positions. Note: You may have other skills/experiences that will fit into these categories; brainstorm your own background. Also, USE language that identifies your skill level, i.e. “exposed to...”, “familiar with...”, “experience with...”, etc. Other categories might include MEMBERSHIPS, CLUBS, LEADERSHIP ACTIVITIES, etc.**

**COMPUTER SKILLS:**

- Hardware: PC/MAC
- Software: Word, Excel, Access, PowerPoint
- Operating Systems: Windows (10, 8, 7, XP, ME, 2000); UNIX; LINUX
- Languages: FORTRAN, C++
- Statistical Packages/Applications/Software: NCSS, Minitab, SAS, SPS, S+, Stata, R, MARK (specific to Wildlife), BASIC, VISUAL BASIC
- GIS – ArcView, ArcInfo, ArcGIS, ArcMap

**WORKSHOPS/SPECIAL TRAINING & LICENSES/CERTIFICATIONS:**

- Spotted Owl Training
- Hunter Safety Course
- Wilderness First Responder
- California Driver’s License (Class B)
- CPR
- Defensive Driving Course
- First Aid/Wilderness First Aid
- EMT1
- Red Card (USFS) for firefighting
- Associate Biologist Certification
- Orienteering – “Field Orienteering with Map, Compass &GPS”
- Certified Wildlife Biologist (TWS)

**OTHER SKILLS:**

- Chainsaw
- Horsemanship
- ATV’s, ORV’s OHV’s, 4WD, Snowmobile Certification
- Farm Equipment
- Fence Building
- Hand and Power Tools
- Photography
- Research Vessel; F/V (Fishing Vessel)
- Snorkel Surveys
- Diving (SCUBA) – NAUI or PADI
- Electro-Fishing
- Rabies Vaccination or Boosters
- Small Boat Handling
- Kayak Experience
- Other fisheries techniques – snorkel surveys, electro-fishing, seining, small boat handling, dip netting, etc.
- Outdoor Skills: Experience working in varying terrains and weather conditions

**EQUIPMENT/TECHNIQUES:**

- |                                   |                                    |                               |
|-----------------------------------|------------------------------------|-------------------------------|
| • Mist netting and Rocket Netting | • GPS (hand-held) – Type (Garmin)  | • Munsell Color Chart (soils) |
| • Bird Banding                    | • Spotting scopes                  | • Quadrat surveys             |
| • Small mammal trapping           | • Radio telemetry                  | • Jepson Manual (CNP)         |
| • Point counts                    | • Remote Sensing/GIS               | • PIT Tagging                 |
| • Wildlife surveys                | • Orienteering – map, compass, GPS | • Vernal Pool Surveys         |
| • Invasive Plant Removal          | • Turtle Trapping                  | • Herp Inventory              |
| • Frog Training                   | • Electro-shocking                 |                               |

**BRIEF SUMMARY OF LABORATORY SKILLS:**

**Chemistry**

- Extraction, Isolation, and Analysis of Compounds, Proteins, Tissues, and DNA
- Quantification of Chemical Species
- Synthesis of Organic Compounds
- Enzyme Kinetic Studies
- Design of Experiments

**Chromatography:** Paper, Gas, Ion Exchange (IXE), Gel Filtration, Thin Layer (TLC), Hydrophobic Interaction Column (HIC)

**Spectroscopy:** IR, NMR, UV-Vis, Mass spectrometry, Fluorescence

**Biology**

**Zoology:** Microscope and Dissection Techniques, Classification of Specimens

**Bacteriology:** Aseptic, Pure Culture, & Staining Techniques, Biochemical Classification of Species, Plasmid Transformation, Analysis of Growth Conditions, Kirby Bauer Assays

**Genetics:** Extraction & Analysis of Genomic/Plasmid DNA, & Nucleosomes, Primer Design, Gel Electrophoresis, Population Genetics

**Machines**

Spectrophotometer, Centrifuge/ Ultra Centrifuge, Balances, NMR, IR, GC-MS, GC, Sonicator, Ion Selective Electrodes, Mel-Temp, PCR, NanoDrop, Autoclave