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## EDUCATION

Masters of Natural Resources  
College of Natural Resources and Environment  
Virginia Tech, Blacksburg, Virginia  
Tentative Graduation date - September 2019

B.S. Wildland Restoration (Major)  
Wildlife Biology (Minor)  
College of Forestry and Conservation  
The University of Montana, Missoula, Montana  
Graduated - August 2014

## EXPERIENCE

**Biological Science Technician (GS-06) – Natural Resource Technician, U.S. Department of Agriculture - U.S. Forest Service, Chippewa National Forest, Deer River Ranger District - Deer River Ranger Station, Deer River, Minnesota. (November - December 2017, March 2018 - present)**

- Conducted field verification of habitat and stand characteristics in proposed management units.
- Field verified, identified, and typed management stands/units based on tree species and topographic composition.
- Identified Northeastern, Midwestern, and Boreal tree species based on bark and growth form characteristics due to seasonal conditions.
- Independently worked in the field without supervision.
- Documented potential habitat areas for rare, threatened and endangered plant and lichen species to be surveyed in the spring and summer months.
- Located, documented, marked and verified old and new eagle nests on forest service, reservation, and state lands.
- Created a simple field and identification guide for rare and endangered fungi for field technicians.
- Performed Goshawk monitoring and detection surveys using the most up to date USFS protocol.
- Worked in snowy conditions; used snowshoes when trails and roads were not accessible by vehicle.
- Used GIS to create maps for surveys and field work.
- Surveyed for new population of rare, special concern, threatened, and endangered species in proposed management project areas.
- Conducted proactive surveys for Bumble Bee, Orchid, and Lichen species.
- Documented and wrote reports on new species populations as well as monitoring sites.
- Participated and conducted mobile bat acoustic routes, contributing to the NABat project.
- Set up permanent bat acoustic monitoring stations.
- Contributed and helped edit reports, survey and monitoring forms, and survey protocols.
- Contributed in choosing contractors for biological surveys by reviewing credentials and resumes.
- Surveyed, identified, and inventoried plant species in Releve relocation plots.
- Conducted soil impact surveys; identified and analyzed soil horizons and impact/compression.

**Biological Science Technician- Crew Leader (GS-05) – Plants and Wildlife, U.S. Department of Agriculture - U.S. Forest Service, Mt. Hood National Forest, Barlow Ranger District - Dufur Ranger Station, Dufur, Oregon. (April – November 2017)**

- Conducted Northern Spotted Owl (*Strix occidentalis caurina*) surveys following USFS protocols, including acoustic lure and live lure techniques.
- Identified survey areas based on geographic areas within the National Forest based on species specific suitable habitat areas including mature and old growth forests.
- Conducted field verification of habitat and site characteristics. Identified and recorded other owl

species in study areas.

- Maintained and organized project observations and data.
- Set up trail cameras for wildlife surveys.
- Wrote up reports summarizing data collected.
- Presented findings/data in front of forest service staff members.
- Organized and planned daily schedule and activities for crew.
- Type 4 Engine fire crew member, one major fire assignment and responded (initial attack) on multiple smaller fires within the forest.

**Biological Science Technician (GS-05) – Wildlife, U.S. Department of Agriculture - U.S. Forest Service, Mt. Hood National Forest, Barlow Ranger District - Dufur Ranger Station, Dufur, Oregon. (April – November 2016)**

- Conducted Northern Spotted Owl (*Strix occidentalis caurina*) surveys following USFS protocols, including acoustic lure and live lure techniques.
- Identified survey areas based on geographic areas within the National Forest based on species specific suitable habitat areas including mature and old growth forests.
- Conducted field verification of habitat and site characteristics. Set up call stations in new project areas. Obtained visual verification and observation of behavior, pertinent data or evidence of occupancy (i.e. nesting, foraging, flight, pellets, whitewash and molted feathers). Identified and recorded other owl species in study areas.
- Maintained and organized project observations and data.
- Set up trail cameras for wildlife surveys.
- Conducted surveys and monitoring of Bald Eagles (*Haliaeetus leucocephalus*) and the Western Bumble Bee (*Bombus occidentalis*).
- Surveyed, collected, and identified Mushroom species for units within a proposed restoration project.

**Program Assistant – Hickory Knolls Discovery Center, St. Charles Park District, St. Charles, Illinois. (January – April 2016).**

- Served as a public outreach educator on native reptiles found in the Prairie. Educated the public on the importance and roles of reptiles in the prairie eco-system. Provided the public the opportunity to handle a wide range of reptiles including many species of native snakes, amphibians and turtles.
- Responsible for feeding and maintaining the health of the Centers resident animals including; reptiles, mammals and insects.
- Supervised and worked with at risk youth and disabled high school teenagers at environmental learning events in the Center.
- Supported the Park District/Center's Staff on developing and executing programs and events.

**Biological Research Technician- Arboreal Small Mammal Trapping Research Program, Oregon State University, Corvallis, Oregon. (October-December 2015)**

- Recorded species, ear tag number, weight, sex, reproductive status, as well as tagged new animals using metal ear tags.
- Learned to safely capture, handle and process live small mammals. Main species of interest; Chipmunks, Douglas Squirrel, Bushy-tailed Woodrat, Dusky-Footed Woodrat, and the Northern Flying Squirrel.
- Repaired old and new grid stations and Tomahawk traps damaged from black bear, weasel, fisher, and weather.
- Surveyed two grids, each containing 128 tomahawk traps, 64 stations separated by 40 meters, daily in varying weather conditions and hiked various terrains.
- Trapping was conducted on the Umpqua, Rogue-Siskiyou, and Siuslaw National Forest's in Oregon.
- Worked with limited to no supervision.
- Utilized compass to navigate the grid lines through dense forest vegetation.

**Biological Science Technician Crew Leader (GS-05) – Plants and Wildlife, U.S. Department of Agriculture - U.S. Forest Service, Black Hills National Forest, Mystic Ranger District, Rapid City, South Dakota. (May 2015 – October 2015)**

- Managed and led the botany and wildlife technicians in daily projects, as well as made sure the crew had proper equipment for field work and surveys.
- Hiked forest stands of variable stages to survey for current and historical goshawk nests.
- Documented known and followed up on reported new eagle and osprey nests sightings.
- Assisted staff with fence building projects with a local Youth Natural Resource Program (YNRP).
- Repaired existing buck-and-rail and barbed-wire fences.
- Surveyed and repaired Rocky Mountain Elk Foundation wildlife guzzlers.
- Set up bat monitoring stations at various remote locations.
- Used GIS to create projects and survey maps.
- Collected and prepared plant specimens to be identified, catalogued, and stored in district herbarium.
- Worked at the Pactola visitor centers front desk by issuing ATV and other motorized vehicle permits, answered visitor's questions, and worked the cash register.
- Drafting a report of a previously completed timber sale survey regarding the botanical value and impacts the sale could possibly pose to the area.
- Conducted pine encroachment (thinning) project using chainsaws, and late season plant surveys.

**Natural Resource Technician –Seasonal Kane County Forest Preserve, Geneva, Illinois.  
(November - March 2015)**

- Assisted the field staff with natural areas management tasks including, exotic species management, sign posting, seed processing and cleaning for on-going restoration activities.
- Assisted the field staff in restoration assessment and planning.
- Assisted District staff with vegetation inventories, plant identification, site mapping, and data collection leading to the preparation of typed summaries, graphed and charts detailing plant community assessments.
- Used ArcMaps to create a centralized digital map of existing drain tiles on forest district property.

**Biological Science Technician (GS-04) –Plants U.S. Department of Agriculture – U.S. Forest Service, Umpqua National Forest, Tiller Ranger District, Tiller, Oregon. (June – September 2014 & March – May 2015)**

- Assisted scientists with conducting ecological management activities in the Umpqua National Forest ecosystems.
- Performed plant management and monitoring activities of invasive, non-native plants within the Umpqua NF ecosystem.
- Utilized GPS Trimble Juno 3, topographic maps, aerial photographs and GIS ARC 10.1 to mark, identify, inventory and monitor invasive plant species populations in remote-wilderness areas.
- Collected, analyzed and documented data in support of habitat restoration plans.
- Utilized a wide range of herbicide application and manual methods to control invasive plant species populations.
- Performed re-vegetation and ecological restoration activities including; planting, seed collection, and native plant nursery
- Conducted night surveys for the northern spotted owl.
- Supported the Forest Wildlife Biologist in avian and fish surveys.
- Completed 16 Significant Interest Area (SIA) Surveys for the management of *Vaccinium membranaceum* (Thin Leaf Huckleberry) habitat. Plotted and inventoried tree and plant species utilizing concave and convex densitometers, compass, DBH Tapes, and clinometers.

**Research Field Station Technician – Natural Resource Management – McHenry County Conservation District, McHenry, Illinois. (May–August 2012)**

- Managed and trained crew of 11 interns in ecological restoration activities for the Research Field Station program and was responsible for resource allocation, project assignment, and oversight.
- Surveyed and relocated threatened and endangered fresh water mussels from stressed aquatic environments due to drought conditions.
- Applied herbicides to invasive plants utilizing hand - backpack sprayers and ATV's equipped with high power sprayers.
- Maintained worker safety guidelines and standards and applied them in performing daily activities and

tasks.

**Research Field Station Intern – Natural Resource Management – McHenry County Conservation District, McHenry, Illinois. (May–August 2011)**

- Conducted local bird surveys identifying species based on sight, song, and call.
- Conducted soil/ecosystem surveys.
- Practiced brush, tree, and invasive species removal using herbicide and chainsaws.
- Collected and processed native seeds.

**RELEVANT COURSE WORK**

Conservation Ecology, Ornithology, General Ecology, Rocky Mountain Flora, Botany, Restoration Ecology, Geographic Information Systems (GIS), Forest Ecology, Ecological Restoration, Environmental Entomology, Natural Resource Administration and Policy, Forest Insects and Diseases, Watershed Hydrology, Environmental Planning and Design (Sustainability and Development), Wildlife Conservation, Wildlife Handling and Chemical Immobilization, Geology and Forestry Soils.

Preservation of the Western Bumble Bee (*Bombus occidentalis*) Seminar, Xerces Society for Invertebrate Conservation & USFS, Mt. Rainier, Washington (July, 2016).

Workshop on identifying Eastern bumble bee species, University of Minnesota (May 2018).

Graduate Class Case Study June-July 2018; Croatia hydrological issues, and watershed management. Met with stakeholders (University Professors, Scientists, City Mayors, Ministry, etc...) throughout the country of Croatia to learn about water issues and watershed management of a post-war and economically recovering country. Case study will be published mid-August 2018.

**ADDITIONAL CERTIFICATIONS/SKILLS**

Miradi Adaptive Management Program/Software

Qualified Firefighter Type 2

CPR, AED, First Aid Certified.

Government Vehicle License.

Chainsaw Safety, Maintenance, and Operation Certified (A-Faller, B- Bucking)

Experience in operating a wide range of vehicles including; Heavy Duty 4x4 trucks with standard and automatic transmissions.

**REFERENCES**

**Jeremy Cable** - Inventory and Monitoring Supervisor at Chippewa National Forest, Deer River District, Deer River, Minnesota. Email: [jcable@fs.fed.us](mailto:jcable@fs.fed.us) Phone: (218) 246-3459

**Patty Walcott** - Wildlife Biologist at Mt.Hood National Forest, Barlow and Hood River District's, Dufur and Parkdale, Oregon. Email: [plwalcott@fs.fed.us](mailto:plwalcott@fs.fed.us) Phone: (541) 467-5120

**Kelly Warnke** - Botanist at Black Hills National Forest, Mystic Ranger District, Rapid City, South Dakota. Email: [knwarnke@fs.fed.us](mailto:knwarnke@fs.fed.us) Phone: (605) 716-1978

**Patrice Lynch** - Wildlife Biologist at Black Hills National Forest, Mystic Ranger District, Rapid City, South Dakota. Email: [plynch@fs.fed.us](mailto:plynch@fs.fed.us) Phone: (605) 716-1931

**Andre Silva** – Previous Wildlife Biologist at Umpqua National Forest, Tiller Ranger District, Tiller, Oregon. Currently District Wildlife Biologist for the Santa Fe NF, Jemez RD. Email: [amsilva@fs.fed.us](mailto:amsilva@fs.fed.us) Phone: (575) 829-3535

**Ben Haberthur** – Manager - Natural Resource Management at Kane County Forest Preserve District, Geneva, Illinois. Email: [haberthur@kaneforest.com](mailto:haberthur@kaneforest.com) Phone: (630) 649-1149

