

Shelley Bayard de Volo
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AVAILABILITY

Job Type: Permanent
Temporary

Work Schedule: Full Time
Part Time
Intermittent
Job Share

Desired Work Environment

Post-graduate
New Professional
Term
Highly Mobile
Mission-Focused
Telework
Mid-Career Professional
Experienced Professionals

DESIRED LOCATIONS

Fort Collins
But open to other locations

WORK EXPERIENCE

Rocky Mountain Research Station 1/2011 - Current
Fort Collins, Colorado US

Grade Level: GS-07
Salary: 41631 USD Per Year
Hours per week: 40.00

Biological Science Technician, 0404

- Literature searching
- Writing species accounts with a focus on habitat
- Oversee habitat quality data collection
- Compile, enter, verify and analyze data

Duties – My primary duties in this appointment involve assisting primary research scientists with developing a habitat assessment for goshawks in the Black Hills National Forest, South Dakota. My work involves conducting literature searches, compiling that literature and entering it into a library database. I also write species accounts for numerous bird and mammal prey species. I also supervised another technician in his work updating existing species accounts.

I assisted with the organization of data collection of habitat quality indices. This work involved overseeing a panel of local experts (wildlife biologists), who rated habitat patches for goshawks and seven of their prey guilds. I compiled, verified, and entered data, which I then analyzed with the goal of developing an overall habitat quality measure for each habitat patch.

*This project is currently ongoing.

Colorado State University 11/2008 - 4/2010
Fort Collins, Colorado US

Salary: 37000 USD Per Year
Hours per week: 40

Research Associate II

- Set up two new biology labs
- Performed oversight for lab construction
- Performed extensive product research and purchasing
- Managed labs, undergraduate laboratory technicians and graduate students
- Performed highly technical molecular procedures
- Managed a live frog colony
- Developed and wrote technical protocols

ADMINISTRATIVE DUTIES - My primary duties in this appointment were administrative (70%): I set up two molecular labs for two new Biology professors, Colorado State University (CSU), who shared lab space. As the Lab Manager, my initial duties entailed extensive product research for capital equipment, laboratory and field equipment pricing and supplies. My product research involved meeting with vendor representatives to discuss pricing and the types of equipment/supplies

available. I built a very good report with vendor representatives, and this helped facilitate my success in establishing two well stocked and comfortable labs. I became very familiar with the University's online purchasing system, and in fact often assisted other faculty and graduate students with learning the system. I also used the system to purchase capital equipment, which involved purchasing bids. I developed and maintained purchasing budgets and records, and instructed graduate students in the lab how purchase items and record their activities. I developed an animal tissue database and established organization of these tissues in a -80 degree-C freezer (for long term archiving).

Writing duties (10 hrs/wk) - I developed numerous written protocols, which were "how to" guides on performing molecular procedures. I also developed a "Frog Care Protocol" that outlined, with accompanying graphics, how to care for the different life stages of the frog colony I developed and managed. I drafted many email communications on behalf of my supervisors. I also periodically drafted job announcements.

RESEARCH DUTIES (30%) - I performed DNA extraction from amphibian tissues, PCR amplification and sequencing of nuclear genes, and analyzed sequence data. I extracted RNA from brains of fish and frogs, performed cloning and did culture preparations. I developed and maintained a captive tadpole and frog colony (for common garden experiments) and supervised three undergraduate frog care technicians and one molecular lab technician. I participated with field collection of frogs and performed field recordings of their vocalizations. (Contact Supervisor: Yes, Supervisor's Name: Chris Funk, Supervisor's Phone: 970-491-3289)

**Colorado State University
Fort Collins, Colorado US**

1/2008 - 5/2008

**Salary: 32000 USD Per Year
Hours per week: 20**

Instructor

- Lectured twice weekly on the complex principals of ornithology
- Administered exams and graded student research papers
- Managed laboratory teaching assistants
- Collaborated with local conservation group

Course instructor for Ornithology (BZ335 – Biology undergraduate course). My primary duty as course instructor was to lecture on the principals of ornithology - avian taxonomy, paleontology/evolution, mechanics of flight, physiology and anatomy, song development and learning, behavior, population ecology, and conservation. In order to clearly explain complex ideas, I prepared for each lecture by researching each topic. I also reworked and improved many of the MS PowerPoint lectures. I assisted students with their learning, and administered exams. I read and graded student research papers, and assisted lab TA's (both new to the course) with their duties as needed.

I attempted to get students involved with local avian conservation groups by collaborating with the Rocky Mountain Bird Observatory (RMBO) to organize student field monitoring of Bald Eagles. Interested students volunteered with the RMBO's Citizen Science Bald Eagle Nest Monitoring program, which is responsible for collecting valuable data on Bald Eagle population stability and reproduction across the Colorado Front Range.

Overall, I gained substantial experience in orally presenting complex ideas in a cohesive manner, working collaboratively with local conservation groups, and managing laboratory teaching assistants. (Contact Supervisor: Yes, Supervisor's Name: Dan Bush, Supervisor's Phone: 970-491-7013)

**Rocky Mountain Research Station
Fort Collins, Colorado US**

4/2007 - 4/2008

**Grade Level: GS-09
Salary: 41563 USD Per Year
Hours per week: 20**

Wildlife Biologist, 0486

- Independent research: Phylogeography of Northern Goshawks
- Analyzed and interpreted complex datasets
- Oversaw Joint Venture Agreement between university and federal agency
- Prepared annual progress reports
- Prepared written dissertation and peer reviewed manuscripts
- Delivered oral presentations of complex research results
- Performed various administrative duties (time, procurement, travel)

My primary duties as Wildlife Biologist (0486-09) were to continue work from my previous appointment (0404-07), which involved independent research investigating phylogeography and gene flow in Northern Goshawks. I was responsible for analyzing and interpreting complex molecular data sets, and providing written interpretation of how my results compared with similar studies. I produced tangible products in the form of a successful doctoral defense, several peer reviewed publications, and I orally presented my results to my doctoral committee, academic department and to professional scientific societies.

One important product from my dissertation research was to provide conservation recommendations for Northern Goshawks, a USFWS Category-2 species. An important question has been whether goshawk populations in the West constitute a distinct population segment (DPS) (distinct from populations in the East). Results from my research will help elucidate answers to this important question and will likely influence policy regarding goshawk conservation and management. I initiated a collaboration to share data with USGS scientists, who also studied Northern Goshawk phylogeography. This collaboration resulted in my acquiring additional data to use in my study, and the USGS scientists were granted co-authorship in resulting publications. I assisted the lead scientist (R. Reynolds) with oversight of a Joint Venture Agreement between Colorado State University and the Rocky Mountain Research Station (Research Work Unit #4256 - JVA# 05-JV-11221607-106).

(Contact Supervisor: Yes, Supervisor's Name: Richard T. Reynolds, Supervisor's Phone: 970-295-5972)

**Colorado State University
Fort Collins, Colorado US**

8/2005 - 12/2007

**Salary: 19200 USD Per Year
Hours per week: 20**

Graduate Teaching Assistant

- Lectured twice a week on complex principals of avian and mammal taxonomy and identification
- Developed MS PowerPoint presentations for lecture materials
- Developed an online course portal
- Administered and graded exams
- Maintained specimen collection
- Received Graduate Teaching Assistant award

Instructor for Ornithology (Spring, BZ335) and Mammalogy (Fall, BZ330) undergraduate labs. My primary duties were to prepare and deliver lectures (MS PowerPoint) covering bird and mammal taxonomy, specimen identification, physiology and anatomy, and museum specimen preparation. I assisted students with learning the course materials and with field ID of live birds and mammals.

I successfully updated the lecture materials for both courses. During my initial semester teaching, I found the courses lacked MS PowerPoint lectures, so I took on the task of developing the lectures in this media format. The students greatly appreciated having lectures delivered in this updated media, and the new format provided more cohesive lectures among the three graduate teaching assistants. I also built and maintained the course's online portal (RamCT), which provided students lecture materials, grades and other communications. I proctored and graded lecture and laboratory exams, as well as student field projects. I maintained the specimen collections and instructed new teaching assistants on how the course was administered.

I received the departmental Graduate Student Teaching Award (2008) for my efforts in updating both courses. Overall, I gained substantial experience in orally presenting complex materials related to animal identification. (Contact Supervisor: Yes, Supervisor's Name: Donna Weedman, Supervisor's Phone: 970-491-4061)

**Rocky Mountain Research Station
Fort Collins, Colorado US**

11/2005 - 3/2007

**Grade Level: GS-07
Salary: 33949 USD Per Year
Hours per week: 20.00**

Biological Science Technician, 0404

- Independent research: Phylogeography of northern goshawks
- Collected molecular data
- Performed data management
- Analyzed complex data sets
- Managed and trained undergraduate students
- Developed written field and molecular lab protocols
- Performed various administrative duties (time, procurement, travel)

During my tenure in my GS-0404-07 STEP appointment, I was responsible for collecting data for my independent research investigating genetic diversity and population structure of goshawks across their North American range.

LABORATORY DUTIES (100%) – My duties were similar to my previous (GS-0404-06) appointment, except I was collecting data from different (mitochondrial) genetic markers. I collected sequence data and analyzed those sequences using specialized computer software. I learned new software packages specific for reading and compiling the data I was collecting, and I learned to use a myriad of new analysis software packages.

I employed, trained and supervised two undergraduate work study students, who isolated DNA from feather samples, and performed PCR amplification of genetic markers. (Contact Supervisor: Yes, Supervisor's Name: Richard T. Reynolds, Supervisor's Phone: 970-295-5972)

**Rocky Mountain Research Station
Fort Collins, Colorado US**

7/2002 - 11/2005

**Grade Level: GS-06
Salary: 24544 USD Per Year
Hours per week: 40**

Biological Science Technician, 0404

- Independent Research: Genetic diversity, effective population size and non-invasive genetic sampling for mark-recapture studies
- Used map, compass and GPS to orienteer
- Collected field data on goshawk demography
- Collected molecular data
- Entered and managed data
- Trained field and laboratory technicians
- Collaborated with other scientists
- Prepared and delivered oral and poster presentations
- Compiled literature database
- Wrote grant proposals

As a Biological Science Technician (GS-0404-06) ON A STEP appointment, I continued my independent research as a graduate student at Colorado State University. I performed field, office and laboratory duties.

FIELD DUTIES - I worked the 2002 summer field season as a goshawk field technician. My duties were the same as in my previous (GS-0404-05) appointment, except for I performed more supervisory duties, where I trained new field crew members on various field techniques (e.g., map and compass use, broadcast surveys, lighting and driving safety).

LABORATORY DUTIES – During 2003-2005, I focused most of my time collecting molecular data in the lab. My responsibility was to investigate genetic diversity and effective population size for the Kaibab goshawk population. I also investigated the use of molted goshawk feathers as a source of DNA for individual identification with genetic fingerprinting. I performed many molecular based duties (e.g., isolating DNA from blood and feathers, using PCR to isolate microsatellite genetic markers). I kept detailed records of my laboratory procedures, performed product research and ordered supplies. I employed, trained and supervised one undergraduate work study student, who isolated DNA from feathers samples.

During 2005, I sought out collaborations with 17 scientists (Forest Service biologists, University faculty and state wildlife biologists) in order to secure additional Northern Goshawk tissue samples. These additional samples provided the necessary tissues to evaluate population genetic structure for goshawks across their range.

OFFICE DUTIES - I entered field data into an MS Access database, validated that data, organized field notebooks, and copied datasheets. I prepared many grant proposals to secure funding for my research, and was successful in accomplishing this task in most cases. I prepared and delivered many oral and poster MS PowerPoint presentations at professional scientific conferences, and successfully published a peer reviewed manuscript documenting my initial research. I compiled a literature database using ENDNOTE personal library software, and developed an MS ACCESS database for the genetic data I was compiling. (Contact Supervisor: Yes, Supervisor's Name: Richard T. Reynolds, Supervisor's Phone: 970-295-5972).

**Rocky Mountain Research Station
Fort Collins, Colorado US**

5/1999 - 7/2002

**Grade Level: GS-05
Salary: 19812 USD Per Year
Hours per week: 40**

Biological Science Technician, 0404

- Used map and compass to orienteer
- Collected field data on goshawk demography
- Collected field data on goshawk genetics
- Lived at remote duty station
- Entered and managed data
- Wrote grant proposals
- Inventoried and managed field equipment

FIELD DUTIES - I worked summer field seasons as a goshawk field technician. My duties were the same as in my previous (GS-0404-04) appointment; except I was now leading goshawk trapping crews and was responsible for collecting blood samples for the genetic study I was initiating. During the 2000 field season we trapped 60 adult goshawks, which was major accomplishment.

OFFICE DUTIES – I worked the fall and winter performing general office duties. I entered field data into an MS Access database, validated that data, organized field notebooks, and copied datasheets. I performed some analysis of morphometric data, did taxonomic identification of bones and hair found in goshawk prey remains, and prepared poster presentations. I helped organize and inventory the field equipment and prepared it for the following field season.

During 2000, I was accepted into the Graduate Degree Program in Ecology, at Colorado State University. I was hired by the RMRS onto a STEP appointment and began my independent research for the Kaibab Goshawk Project. In my initial work, I wrote grant proposals to fund my research, collected field data and prepared a research proposal for my graduate committee. (Contact Supervisor: Yes, Supervisor's Name: Richard T. Reynolds, Supervisor's Phone: 970-295-5972)

**Rocky Mountain Research Station
Fort Collins, CO US**

6/1998 - 5/1999

**Grade Level: O4
Salary: 17680 USD Per Year
Hours per week: 40**

Biological Science Technician, 0404

- Used map and compass to orienteer
- Located and monitored raptor nests
- Used spotting scope
- Trapped, handled and banded raptors
- Conducted broadcast surveys along transects
- Lived at remote duty station

My duties included searching for Northern Goshawk nests. I used a map and compass to locate previously identified raptor nests and to conduct foot and broadcast surveys (along transects) to locate new raptor nests. I made nest visits to determine incubation and nestling stage (using an aging guide), and nest survival (using the Mayfield method). I also collected prey remains and molted feathers. I used a spotting scope to re-sight colored, alpha-numeric codes on banded adult goshawks. I assisted with trapping (Dho-Gaza method), banding and blood sampling adult goshawks, and participated with tree climbs to band nestlings. I used telemetry to locate radio transmitted juvenile goshawks within nest sites and marked their location on maps. I worked with a field crew of up to 22 wildlife techs, where each one of us periodically teamed up with another crew member to cook dinner for the entire crew. Other nights we were responsible for cleaning after meals. We were also responsible for general cleaning chores around the compound. This position required that I live the entire summer at a remote duty station (Big Springs, North Kaibab National Forest, Arizona) that lacked phones and computers. (Contact Supervisor: Yes, Supervisor's Name: Richard Reynolds, Supervisor's Phone: 970-295-5972)

EDUCATION

Colorado State University

Fort Collins, Colorado US

Doctorate - 5/2008

84 Semester Hours

Major: Ecology

GPA: 3.8 out of 4.0

Relevant Coursework, Licensures and Certifications:

- Landscape Genetics
- Conservation Genetics
- Genetics of Natural Populations
- Lab in Population Genetics
- Wildlife Population Analysis
- Sample & Analysis of Vertebrate Populations
- Applied Landscape Ecology
- Design & Data Analysis-Researchers I
- Design & Data Analysis-Researchers II
- Organism & Population Ecology
- Community & Ecosystem Ecology
- Advanced Topics in Ecology

Humboldt State University

Arcata, California US

Bachelor's Degree - 5/1999

68 Semester Hours

Major: Wildlife Biology

Minor: Zoology

GPA: 3.4 out of 4.0

Relevant Coursework, Licensures and Certifications:

- Principals of Biology
- Ornithology
- Mammalogy
- Herpetology
- Genetics
- Vertebrate Physiology
- Introduction to Wildlife
- Introduction to Wildlife Conservation and Administration
- Principals of Wildlife Management
- Wildlife Management (non-game; Migratory Land-birds)
- Wildlife Management (Mammals)
- Wildlife Techniques
- Ecology of Wildlife Populations
- Conservation Biology

- Wildlife Ethology
- Forests and Culture
- Plant Ecology
- Plant Taxonomy
- Ecology of Upland Habitats
- Natural Resources Conflict Resolution

Saddleback College

Mission Viejo, California US
 Associate Degree - 5/1995
 118.5 Semester Hours
 Major: Environmental Studies
 GPA: 3.6 out of 4.0
 Honors: cum laude

Relevant Coursework, Licensures and Certifications:

- Introduction to Environmental Studies
- Biology Field Study - Mammoth, California
- Biology Field Study - Death Valley, Nevada
- Biology Field Study - Saguaro, Arizona
- Biology Field Study - Yosemite, California
- Natural History of Southern California
- Fundamental Chemistry
- General Chemistry 1A, 1B
- Animal Diversity and Ecology
- Natural Resources Conservation
- Environmental Studies Internship
- Analytic Geometry and Calculus

AFFILIATIONS

Rocky Mountain Research Station
 Colorado State University
 Rocky Mountain Raptor Program

PROFESSIONAL PUBLICATIONS

PEER REVIEWED PUBLICATIONS

Bayard de Volo, S., RT Reynolds, JR Topinka, B May and MF Antolin. 2005. Population genetics and genotyping for mark-recapture studies of northern goshawks (*Accipiter gentilis*) on the Kaibab Plateau, Arizona. *J. Raptor Research* 39: 275-284.
 Bayard de Volo, S., RT Reynolds, MR Douglas and MF Antolin. 2008. An improved method to increase DNA yield from molted feathers. *The Condor* 110: 762-766.

MANUSCRIPTS IN REVIEW AND PREPARATION FOR PUBLICATION

Bayard de Volo, S., RT Reynolds, SA Sonsthagen, SL Talbot and MF Antolin. 2010. Phylogeography, post-glacial gene flow and population history of northern goshawks in North America. In prep: *Molecular Ecology*.

NON-REFEREED PUBLICATIONS

Bayard de Volo, S. 2004. Using molted feathers as a source of DNA in mark/recapture and population genetic studies. *Wingspan* 13:5.
 Bayard de Volo, S. 2008. Genetic studies of northern goshawks (*Accipiter gentilis*): genetic tagging and individual identification from feathers, and determining phylogeography, gene flow and population history for goshawks in North America. Ph.D. dissertation, Colorado State University, Fort Collins, CO. <http://hdl.handle.net/10217/16266>

REFERENCES

Michael F. Antolin Colorado State University Professor and Graduate Advisor
Phone Number: 970-491-1911
Email Address: Michael.Antolin@ColoState.edu
Reference Type: Professional

Richard Reynolds Rocky Mountain Research Station, Research Wildlife Biologist
Phone Number: 970-295-5972 office; 970-214-4991 mobile
Email Address: rreynolds@fs.fed.us; rtreynoldfs@gmail.com
Reference Type: Professional

Chris Funk Colorado State University Assistant Professor
Phone Number: 970-491-3289
Email Address: Chris.Funk@ColoState.edu
Reference Type: Professional

Melanie Murphy University of Wyoming Assistant Professor
Phone Number: 208-874-3749
Email Address: mmurph23@uwyo.edu
Reference Type: Personal

Dan Tripp Colorado Division of Wildlife, Wildlife Disease Researcher
Phone Number: 970-472-4478

Email Address: dan.tripp@state.co.us
Reference Type: Personal

Gloria Krob Colorado State University Department Accounts
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Reference Type: Professional

Kim Hoke Colorado State University Assistant Professor
Phone Number: 970-492-4200
Email Address: Kim.Hoke@colostate.edu
Reference Type: Professional

ADDITIONAL INFORMATION

COMPUTER SOFTWARE

- Microsoft - Word, Excel, PowerPoint, Access, OneNote, Publisher
- Literature Database – EndNote, ProCite
- Genetic Software - Arlequin, Bioedit, Convert, Clustal-X, DnaSP, FSTAT, GDA, Gimlet, LAMARC, McClade, Microchecker, Modeltest, PAUP, GeneClass, GenePop, Prob-ID, Identix, Sequencher, Structure, TCS
- Demographic Software – familiar with MARK, DISTANCE, CAPTURE
- Statistical Software – SAS, Minitab, learning R
- Proficient with MAC and PC computers
- Desire to learn ArcGIS software

SPECIALIZED ADMINISTRATIVE TRAINING AND SKILLS

- Highly organized and able to develop electronic and hard copy file and record systems.
- Experienced with procurement systems and the use of preferred providers for federal purchases.
- Used State and Federal purchase cards and maintained accurate records of all purchases.
- Used Federal, and State travel authorization programs – experienced with “Fed Travel” and “Gov Trip” to prepare travel authorizations and vouchers. Also booking travel arrangements with SATO.
- Experienced with entering time into Federal and State automated work schedule record systems – “Paycheck-8”. Knowledgeable in the appropriate application and use of Federal job and time codes.
- Experienced with Lotus Notes email client and MS Outlook.
- Have helped organize symposiums, conferences, and provided logistical support for special events.

SPECIALIZED GENETIC TRAINING AND SKILLS

- DNA extraction from blood, feathers and other tissues - using Qiagen extraction kits and lab developed protocols.
- RNA extraction, TA cloning and culture preparation
- Polymerase Chain Reaction (PCR) – using PCR kits and lab developed protocols
- Polyacrylamide gel electrophoresis (PAGE)
- Silver-staining PAGE gels
- Agarose gel electrophoresis – ethidium bromide free methods
- DNA purification for direct sequencing - Qiagen kits, ExoSap-IT
- Genotyping microsatellite genetic markers – from PAGE gels and from electrophoretic data.
- Single-stranded conformation polymorphisms (SSCP) - from PAGE gels.
- Calling and aligning DNA sequences - haploid and diploid sequences
- Using NCBI database to post, find and verify sequences

PRESENTATIONS

- Bayard de Volo, S. Genetic fingerprinting for identifying northern goshawks (*Accipiter gentilis*) in studies of survival: a work in progress. Poster presented at the Front Range Student Ecology Symposium, Colorado State University, Fort Collins, CO. March 15, 2001.
- Bayard de Volo, S., M. Antolin, R. Reynolds and K. Burnham. Recovering DNA from molted raptor feathers for use in genotyping and mark/recapture analysis: A work in progress. Poster, North American Ornithological Conference, New Orleans, LA. September 27, 2002.
- Bayard de Volo, S., M. Antolin, R. Reynolds, R. Topinka and B. May. Can molted feathers serve as a source of DNA for genotyping in mark/recapture and population genetic studies: results from a pilot study. International Northern Goshawk Symposium and Annual Meeting of the Raptor Research Foundation, Inc., Anchorage, AK. September 5, 2003.
- Bayard de Volo, S., R.T. Reynolds and M.F. Antolin. Using molted feathers as a source of DNA for population genetic studies of northern goshawks (*Accipiter gentilis*). Evolution 2004 Symposium, Colorado State University, Fort Collins, CO. 27-30 June 2004
- Bayard de Volo, S., R.T. Reynolds and M.F. Antolin. Using molted feathers as a source of DNA for population genetic studies of northern goshawks (*Accipiter gentilis*). Poster, Monitoring Sciences and Technology Symposium. Denver, Colorado. September 21-24, 2004.

- Bayard de Volo, S., R.T. Reynolds and M.F. Antolin. Using molted raptor feathers as a source of DNA for genotyping: effects of DNA extraction methods, feather type and loci on genotyping error. Front Range Student Ecology Symposium, Colorado State University, Fort Collins, CO. April 5-6, 2005.
- Bayard de Volo, S. (Invited). Goshawk genetics and feather study. Oral presentation to Rocky Mountain Bird Observatory field technicians and Routt National Forest Wildlife Biologist. Bioregional Goshawk Monitoring Program Workshop. Steamboat Springs, CO. May 23, 2005.
- Bayard de Volo, S., R.T. Reynolds and M.F. Antolin. Genetic studies of Arizona northern goshawks: evaluating molted feathers as a source of DNA and assessing population genetic structure. Cooper Ornithological Society, Humboldt State University, Arcata, CA. June 15-18, 2005.
- Bayard de Volo, S., R.T. Reynolds and M.F. Antolin. A first look at the phylogeography of a widespread North American avian predator, the northern goshawk (*Accipiter gentilis*). Oral presentation for special symposium SS03: Systematics, Genetic Diversity and Conservation of Raptors, as part of the IV North American Ornithological Conference, Veracruz, Mexico. October 3-7, 2006.
- Bayard de Volo, S., RT Reynolds, SA Sonsthagen, SL Talbot and MF Antolin. Phylogeography of northern goshawks: evidence of a vicariant past and limited post-glacial gene flow. Oral presentation, session: Phylogeography. Joint Conference of the AOU/COS/SCO PDX2008. August 4-9, 2008.
- Bayard de Volo, S., RT Reynolds and MF Antolin. 2009. Genetic studies of Northern Goshawks: Genetic tagging and individual identification from feathers, and determining phylogeography, gene flow and history for goshawks in North America. Colorado State University, Department of Fish, Wildlife and Conservation Biology, Graduate-Faculty Seminar FW692. Friday May 8, 2009 (invited).
- Bayard de Volo, S., RT Reynolds, SA Sonsthagen, SL Talbot and MF Antolin. 2010. Phylogeography and population history of Northern Goshawks across North America. Poster presentation, Raptor Research Foundation Conference, Fort Collins, CO. Sept. 22-26, 2010.

GRANTS, SCHOLARSHIPS, AND AWARDS

2008 Excellence in Graduate Student Teaching Award, Biology, Colorado State University.	
2008 American Ornithologists' Union Tucker Travel Award.	\$350
2006 Cooper Ornithological Society Travel Award.	\$400
2006 CSU Biology; Graduate Student Travel Award.	\$400
2004 National Science Foundation, Doctoral Dissertation Improvement Grant.	\$8,490
2004 Cooper Ornithological Society Travel Award.	\$387
2004 CSU Biology; Graduate Student Travel Award.	\$480
2003 Stephen R. Tully Memorial Grant, Raptor Research Foundation.	\$500
2002 North American Ornithological Conference Travel Award.	\$180
2002 GDPE Small Research Grant, awarded by the Ecology Program, CSU.	\$2,500
2001 Small Grant Research Fund, Grand Canyon National Park Foundation.	\$2,170
2001 Graduate Student Research/Travel Grant awarded by CSU.	\$500
2000 Rocky Mountain Research Station Spot Award.	\$500

SERVICE ACTIVITIES AND PROFESSIONAL AFFILIATIONS

Service and Volunteerism

- Assisted coordinator for Raptor Research Foundation Annual Conference, 2010 Fort Collins, Colorado. Preparing grants to seek underwriting support, letters of solicitation for vendors and potential donors for silent auction. Rocky Mountain Raptor Program, Fort Collins, CO. Summer 2010
- Manuscript writing and genetic data collection, for Kaibab Northern Goshawk Project, Rocky Mountain Research Station. Summer 2010
- Moderator for the Phylogeography Session, Joint Conference of the AOU/COS/SCO PDX2008. 6 August 2008.
- Hosted Dr. John Demboski, Curator of Vertebrate Zoology, Denver Museum of Nature and Science, for Colloquium in Life Sciences, Colorado State University. April 2008
- Assisted AP Biology students and their teacher, Mrs. C. Lambert, with electrophoreses of restriction fragments through agarose gels. Fossil Ridge High School, Fort Collins, Colorado. Feb 2007.
- Hosted Dr. Susan Haig, USGS and Oregon State University, for Colloquium in Life Sciences, Colorado State University. Fall 2003
- Audiovisual service for 75th Annual meeting for the Cooper Ornithological Society. Flagstaff, AZ. May 2003
- Assistant – Estimating Avian Abundance Workshop, Cooper Ornithological Society. Flagstaff, AZ May 2003

Society Membership

1996 – 2010 Raptor Research Foundation, Inc.
 2001 – 2010 American Ornithological Union
 2001 – 2010 Cooper Ornithological Society

Editorial Reviews

Conservation Biology
 Conservation Genetics
 J. Field Ornithologists

J. Raptor Research
 Southwestern Naturalist

PERMITS

- USGS Bird Banding Lab. Band and auxiliary mark raptors, possess and transport live great-horned owls; sub-permit #21294-F.
- ACUC, Colorado State University. Animal Welfare Assurance #A3572-01 State of Arizona Game and Fish Commission Scientific Collecting License, sub-permit #SP640531
- Colorado Division of Wildlife Scientific Collecting Permit. Sub-permitted under #05-TR1079

HOBBIES

- **Gardening** – Vegetable gardening (6 years) and Perennial beds. Both activities have given me much experience and knowledge with garden design, plant species and growth requirements.
- **Gourmet Cooking** – I have been cooking for many years, and my techniques have grown and improved significantly over time. I subscribe to Cooking Light, Fine Cooking, and Cooks magazine and implement professional techniques into my own cooking. I always use quality ingredients, as they are the foundation of a great meal. I really enjoy cooking and have found that the skills I use for cooking and molecular work are often the same (measuring, following 'recipes', attention to details).
- **Dog agility, frisbee and obedience** – I spend a lot of my free time with my cattle dog, training in competitive activities. It's a great fun and a real pleasure working together with her in such events.
- **Sewing Crafts** - I create fabric gift bags, and kitchen items (aprons, oven mitts) and other home decorating items.