

# Caitlin Rumrill

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Savannah River Ecology Laboratory  
P.O. Drawer E  
Aiken, SC 29802  
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## EDUCATION

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### University of Georgia, Odum School of Ecology

Athens, GA

Master's Degree August, 2015

**Major:** Ecology

**Relevant Coursework:**

GIS Applications for Natural Resources, Landscape Ecology (analysis and interpretation of GIS data), Ecotoxicology, and Experimental Methods in Forestry and Natural Resources Research (i.e., experimental design and statistics)

### Colby College

Waterville, ME

Bachelor's Degree May, 2008

**Major:** Biology **Honors:** Magna Cum Laude

**Relevant Coursework:**

Molecular Ecology, Genetics, Immunology, Bacteriology, Ecology of Woody Plants, Evolutionary Analysis, Ecology, Comparative Vertebrate Anatomy, Mammalian Physiology

## RELEVANT EXPERIENCE

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### University of Georgia's Savannah River Ecology Laboratory

Jan. 2013 – present

PO Drawer E  
Aiken, SC 29802

#### Graduate Research Assistant

**Duties, Accomplishments and Related Skills:**

Independently, and in collaboration, executed scientific research from design to publication. Applied knowledge and experience to plan, design, and troubleshoot studies involving amphibian ecotoxicology in the laboratory and outdoor mesocosms. Collected, analyzed, and presented data to the public and at scientific conferences.

Additionally, created figures, tables, and wrote up results as reports and scientific literature for publication. Data collection and skills for this project include field sampling techniques by drift fence, dip netting, and call occupancy, preparation for breeding with hormone injection, counting and monitoring of eggs, daily husbandry of tadpoles, juveniles and adults including collection and raising of feeder insects and cleaning of aquatic and terrestrial enclosures. Additionally, monitoring of water quality parameters and presence of heavy metals, daily health monitoring of animals in indoor and outdoor meso/microcosms, collection of morphological, physiological, and behavioral data for experimental animals, necropsy technique and metals analysis via acid digestion of tissue and soils. In an additional study, investigated infectious disease in southern toads via a controlled, laboratory experiment using disease inoculation, husbandry, necropsy, DNA extraction, and qPCR. Other skill acquired from research and graduate course work are proficiency with statistical programs R and SAS, and use of ArcGIS for identification and presentation of issues such as habitat suitability and connectivity.

**Supervisor:** Stacey Lance, PhD (803-725-0988); lance@srel.uga.edu

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**Verde Watershed Restoration Coalition/AZ Conservation Corps**

Sept. 2012 – Dec. 2012

2301 East 5th Avenue  
Flagstaff, AZ 86004**Restoration Crew Member****Duties, Accomplishments and Related Skills:**

Working with the Verde Watershed Restoration Coalition through the Arizona Conservation Corps (previously Coconino Conservation Corps), as well as public and private landholders, removed invasive plant species (*Arundo donax*, *Ailanthus altissima*, *Tamarix* spp.) and collected data for restoration of the Verde River watershed. Holding an AZ Pesticide Applicators License, prepared and applied herbicide as part of our removal plan. Data was collected on herbicide application, weather, slope, canopy cover, and GIS points were collected for future monitoring of treated areas. Other skills used here include: plant identification, chainsaw and hand tool use and maintenance, orienteering, camping and hiking in adverse conditions, public education, and living/working in a team environment.

**Supervisor:** Russ Dickerson (928-526-3280); russ@conservationlegacy.org

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**Vermont Youth Conservation Corps**

May 2011 – Oct. 2011

1949 East Main Street  
Richmond, VT 05477**Conservation Crew Leader****Duties, Accomplishments and Related Skills:**

Supervised crews of 16-23 year-olds from a range of socio-economic backgrounds and with differing needs on 7 and 4 week sessions of high priority conservation work and community-based camp life. Ensured constant safety and support of the personal needs of each crew member while establishing a working community with a goal of promoting personal responsibility and teamwork. Additionally, taught specific technical skills for trail building and carpentry, provided a wealth of feedback to further self and professional growth, and established an exceptional face for the organization to project sponsors, communities, and families of crew members. Skills and duties include the use and education of power and hand tools, education and supervision of trail building and carpentry, public education, leadership, logistical coordination with project partners, staff, and families of crew members, outdoor and community skills education for crew members, report writing, job site safety reports, accounting, planning of project and camping logistics, and mentor (continues to present) for crew members.

**Supervisor:** Keegan Tierney (802-434-3969 ) or Hannah Clark (802-434-3969 ext. 130); hannah.clark@vycc.org

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**Coconino County**

July 2010 – Aug. 2010

219 East Cherry Avenue  
Flagstaff, AZ 86001**Emergency Flood Mitigation Crew Leader****Duties, Accomplishments and Related Skills:**

Through Coconino County and the Arizona Conservation Corps (previously Coconino Conservation Corps), worked with local and national emergency efforts to educate and protect community members and their homes from flooding caused by the Schultz Fire that consumed over 15,000 acres. This position started as a crew member but with promotion to crew leader. Directed crew's efforts to distribute and install wattles and sandbags and provided assistance and education to individuals and families most in need. Skills utilized include: logistical coordination, communication with local government and general public, public education, and planning of customized flood mitigation efforts for homeowners.

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**Arizona Conservation Corps** (formerly Coconino Rural Environment Corps)  
2301 East 5th Avenue  
Flagstaff, AZ

July 2009 – July 2010

**AmeriCorps Crew Member**

**Duties, Accomplishments and Related Skills:**

As a team, conducted physically demanding work in the fields of trail maintenance, forest and endangered species habitat restoration, invasive species removal, and fuels reduction in front and back country settings, often in inclement weather. This required extensive travel and irregular hours at times. Skills acquired include proficiency with topographical maps and compass navigation, 200+ chainsaw hours as Class A Faller Equivalent, Leave No Trace certification, Wilderness First Aid and CPR certifications, proficiency with hand and power tools for trail building and maintenance, plant identification, writing of job safety reports, transect walking using orienteering, and knowledge of inter-agency communication (e.g. USFWS, BLM, NPS) to carry out plans for high priority conservation issues. I, additionally, participated in a number of volunteer opportunities within the community.

**Supervisor:** Russ Dickerson (928-526-3280); russ@conservationlegacy.org

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**Colby College**

Mayflower Hill Drive  
Waterville, ME 04901

May 2006 – Aug. 2006

**Research Assistant**

**Duties, Accomplishments and Related Skills:**

Designed study objectives, methods, and collection apparatus with a team to collect, prepare, and interpret pathogen data of the occurrence of Lyme, Babesiosis, Ehrlichiosis, and Tularemia in arthropod and rodent vectors in Maine. Performed small rodent trapping and blood letting to sequence DNA for vector species identification and analysis of pathogen strain relatedness. Results exhibited in a poster at the 2007 Colby College Research Symposium.

Continued research with an independent study until May 2007 that included two main projects: 1) Heart worm (and other endoparasite) occurrence in wild canids, including necropsies on 25 gray foxes and 2 coyotes and specimen DNA extraction, PCR, and sequencing for identification. 2) Identification of distribution and population dynamics of reintroduced fox squirrel populations in Maryland by refining a technique for isolation of non-invasive specimen samples for DNA extraction. Skills and techniques utilized were: field sampling (arthropod and small mammal trapping), non-invasive genetic sampling (hair snares and scat surveys), necropsy technique, blood letting, DNA extraction, restriction enzyme digests, and gel electrophoresis.

**Supervisor:** Stacey Lance (803-725-0988); lance@srel.uga.edu

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## HONORS AND AWARDS

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2<sup>nd</sup> Place in Master's Research, Odum School of Ecology Graduate Student Symposium, 2015  
Graduate Assistantship, University of Georgia, 2013  
Lederman Student Research Fellowship, 2006

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## PROFESSIONAL AFFILIATIONS

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The Society for Integrative and Comparative Biology  
The Society for the Study of Evolution  
Association of Southeastern Biologists

## PRESENTATIONS

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Rumrill CT, Bringolf R, Davis A, and SL Lance. 2015. Larval and post-metamorphic consequences of aquatic stressors in southern toads (*Anaxyrus terrestris*). Master's Defense. Odum School of Ecology, Athens, GA. (Platform)

Rumrill CT, Scott DE, Lance SL. 2015. The chronic effects of larval exposure to multiple stressors in southern toads, *Anaxyrus terrestris*. Association of Southeastern Biologists. Chattanooga, TN. (Platform)

Rumrill CT, Scott DE, Lance SL. 2015. The chronic effects of larval exposure to multiple stressors in southern toads, *Anaxyrus terrestris*. Southeastern Ecology and Evolution Conference. Athens, GA. (Platform)

Rumrill CT, Scott DE, Lance SL. 2015. The chronic effects of larval exposure to multiple stressors in southern toads, *Anaxyrus terrestris*. Odum School of Ecology Graduate Research Symposium. Athens, GA. (Platform) \*

Rumrill CT, Scott DE, Lance SL. 2014. Latent and transgenerational effects of heavy exposure in cane toads, *Rhinella marina*. Odum School of Ecology Graduate Research Symposium, Rapid Fire Session. Athens, GA. (Platform)

Rumrill CT, Flynn RW, Scott DE, Lance SL. 2014. Latent effects of multiple stressors on southern toads, *Anaxyrus terrestris*. Society for Integrative and Comparative Biology. Austin, TX. (Poster)

Fuller S, Rumrill C. 2007. Using Genetic Analysis to Track the Spread of Tick-Borne Diseases in Maine. Colby College Undergraduate Research Symposium. Waterville, ME. (Poster)

\* denotes award received

## PUBLICATIONS

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Rumrill CT, Scott DE, and SL Lance. Larval and post-metamorphic consequences of aquatic stressors in southern toads (*Anaxyrus terrestris*). *In prep.*

Rumrill CT, Flynn RW, Scott DE, and SL Lance. Effects of copper and hydroperiod length on larval and juvenile southern toads (*Anaxyrus terrestris*). *In prep.*