

Theresa Stratmann

PhD Student

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EDUCATION

Master of Science in Wildlife and Fisheries Biology

Clemson University, 2015

Bachelor of Science in Ecology, *Minor in Mathematics*

Honors Student, graduating *summa cum laude*

The University of Georgia, 2013

HONORS

Stipendiat (Scholarship Recipient) – Polytechnische Gesellschaft Frankfurt am Main, 2016

NSF Graduate Research Fellowship, Honorable Mention, 2014

Goldwater, 2012

Udall Scholar, 2012

GRANTS

Bern W. Tryon Bog Turtle Grant Fund. Finding and Characterizing Habitat for Rare and/or Cryptic Species: A Case Study of Bog Turtles (*Glyptemys muhlenbergii*). 2014. **\$2000**

South Carolina Department of Natural Resources. Status assessment for bog turtles (*Glyptemys muhlenbergii*) in South Carolina. 2013. **\$7,000**

Riverbanks Zoo Conservation Support Fund. Modeling the Haystack to Find the Needle: Developing Methods to Locate and Survey for Rare Species, A Case Study of Bog Turtles (*Glyptemys muhlenbergii*). 2013. **\$4,997**

PRESENTATIONS AND POSTERS

Stratmann, T., K. Barrett, T. Floyd. 2015. A Status Update for Bog Turtles (*Glyptemys muhlenbergii*) in Georgia and South Carolina. 2015 Annual Meeting of the Southeastern Partners in Amphibian and Reptile Conservation. Covington, LA. **Presentation.**

Stratmann, T., K. Barrett, T. Floyd. 2014. A Status Update for Bog Turtles (*Glyptemys muhlenbergii*) in Georgia and South Carolina. Project Bog Turtle Annual Meeting. Asheboro, NC. **Presentation.**

Stratmann, T., K. Barrett, T. Floyd. 2014. A Status Update for Bog Turtles (*Glyptemys muhlenbergii*) in Georgia and South Carolina. 12th Annual Symposium on the Conservation and Biology of Tortoises and Freshwater Turtles, Joint Annual Meeting of the Turtle Survival Alliance and IUCN Tortoise & Freshwater Turtle Specialist Group, Orland, FL. **Presentation.**

Stratmann, T., J.C. Maerz, K. Barrett, T. Floyd, N. Nibbelink, and J. Hickey. 2013. Monitoring Rare Species: Developing methods to Locate and Survey for the Endangered Bog Turtle (*Glyptemys muhlenbergii*). Council on Undergraduate Research's Posters on the Hill. Washington, D.C. **Poster***.

**I was one of 60 students across the US chosen to participate in this event in Washington D.C. We traveled to Capitol Hill to talk to our senators and state representatives about the importance of undergraduate research, both through in-person meetings and a poster session for members of Congress in the Rayburn Office Building on Capitol Hill.*

Stratmann, T., J.C. Maerz, K. Barrett, T. Floyd, N. Nibbelink, and J. Hickey. 2013. Modeling the Haystack to Find the Needle: Developing Methods to Locate and Survey for Bog Turtles (*Glyptemys muhlenbergii*). 11th Annual Symposium on the Conservation and Biology of Tortoises and Freshwater Turtles, Joint Annual Meeting of the Turtle Survival Alliance and IUCN Tortoise & Freshwater Turtle Specialist Group, St. Louis, MO. **Presentation.**

Stratmann, T., J.C. Maerz, K. Barrett, T. Floyd, N. Nibbelink, and J. Hickey. 2013. Monitoring Rare Species: Developing methods to Locate and Survey for the Endangered Bog Turtle (*Glyptemys muhlenbergii*). Meeting of the Southeast Partners in Amphibian and Reptile Conservation, Hickory Knob State Park, SC. **Presentation and Poster.**

Stratmann, T., J.C. Maerz, K. Barrett, T. Floyd, N. Nibbelink, and J. Hickey. 2012. Monitoring Rare Species: Developing methods to Locate and Survey for the Endangered Bog Turtle (*Glyptemys muhlenbergii*). 10th Annual Symposium on the Conservation and Biology of Tortoises and Freshwater Turtles, Joint Annual Meeting of the Turtle Survival Alliance and IUCN Tortoise & Freshwater Turtle Specialist Group, Tucson, AZ. **Poster.**

Stratmann, T., T. O'Sullivan, A. Channell, A. Kramer, M. Zokan, A. Silletti, and J. Drake. 2011. Two paths to extinction: effect of deteriorating environments on extinction time and distribution. 96th Annual Meeting of the Ecological Society of America, Austin, TX. **Poster.**

PUBLICATIONS

Stratmann, T., T. Floyd, and K. Barrett. (In Review). Locating rare habitat for a rare species: evaluation of a species distribution model for Bog Turtles (*Glyptemys muhlenbergii*) in the southeastern United States. *Herpetological Conservation and Biology*.

Munscher, E., A. Walde, **T. Stratmann**, and B. Butterfield. 2015. Exceptional Growth Rates Observed in Immature *Pseudemys* from a Protected Spring System in Florida. *Herpetology Notes*. 8: 133-140.

Pierson, T., **T. Stratmann**, E. White, A. Clause, C. Carter, M. Herr, A. Jenkins, H. Vogel, M. Knoerr, and B. Folt. 2014. New County Records of Amphibians and Reptiles Resulting from a Bioblitz Competition in North-Central Georgia, USA. *Herpetological Review*. 45(2): 296-297.

Stratmann T. and S. Pfaff. 2011. Geographic Distribution Note for *Lampropeltis elapsoides*. *Herpetological Review*. 42(4):572-573.

QUANTITATIVE SKILLS

I have completed classes in:

- Calculus
- Multivariable Calculus
- Linear Algebra
- Writing Proofs
- Sequences & Series
- Differential Equations
- Nonlinear Dynamics & Chaos
- Mathematical Biology
- Introduction to Statistics
- Statistics & Experimental Design

PROGRAMMING & MODELING

I have experience with the following programs:

- R
- Python
- ArcGIS
- Maxent
- Program MARK

PROFESSIONAL EXPERIENCE

Junior Co-Chair for SEPARC

February 2014 - February 2015

- SEPARC – the Southeast Partners in Amphibian and Reptile Conservation – is an organization of scientists, naturalists, government representatives and citizens that are devoted to the preservation of amphibian and reptile populations in the southeastern United States, and it serves as the southeast branch of the national PARC organization. <http://www.separc.org/>
- This organization is led by two people, and leadership switches every two years. I served one term.
- I helped plan and run our annual scientific conference.

- I helped guided planning and creation of various products: webinars, workshops, informational products (e.g. <https://separc.wordpress.com/products/yard-herping-landscaped-habitats-for-reptiles-amphibians/>).
- I also represented SEPARC at the annual PARC meeting (PARC is the national umbrella organization that SEPARC is a branch of) which lets us talk with our federal agency collaborators.

Intern, Turtle Survival Center

May 28-August 2, 2013

- The Turtle Survival Center is a center built by the Turtle Survival Alliance (<http://www.turtlesurvival.org/>) that is dedicated to building up robust captive populations of turtle species that are critically endangered and face an uncertain future in the wild. Construction on the center began in the spring of 2013. Since this is a nonprofit organization with limited resources I decided to volunteer my summer and help them with facility construction and animal husbandry. I helped with:
 - Animal husbandry for some of the world's most endangered turtles (including 14 of the 40 most endangered turtles of the world)
 - Facility construction (plumbing, installation of drainage field, painting)
 - General set up, organization, and site maintenance (e.g. creation of data sheets, computer support)

Wildlife Technician, Georgia Department of Natural Resources (GA DNR)

May 14-August 4, 2010

May 16-August 3, 2012

- GA DNR is the state wildlife agency of the state of Georgia, tasked with conserving its wildlife.
- I was hired for two summers to work for them, which turned into a close collaboration during my undergraduate and Master's research. Work included:
 - Surveying for and monitoring bog turtle (*Glyptemys muhlenburgii*) populations
 - Radio-tracking bog turtles
 - Surveying for hellbenders (*Cryptobranchus alleganiensis*) in northern Georgia
 - Small mammal trapping to survey for Bog Lemmings (*Synaptomys cooperi*)
 - Bog restoration: management of woody vegetation through cambium torching & barbed wire fence construction to control disturbance by cows

Summer Field Technician for the Coweeta LTER

May – July 2011

- The Coweeta LTER is a research station funded by a long-term grant from the American National Science Foundation. Each summer undergraduates are hired to help with and learn about ongoing research projects. For my work I:
 - Conducted sampling, mark/recapture, and data entry for a project on the long-term monitoring of stream salamanders and aquatic invertebrates, in a larger project looking at the impacts of habitat loss and climate change.

LEADERSHIP

Natural Resources Graduate Student Association

President

May 2014 to April 2015, *Clemson*

- The graduate student association for graduate students studying wildlife and fisheries biology, forestry, or biology.
- Directing and organizing a guest-speaker seminar series; facilitating communication between graduate students, faculty, & staff; organizing events to build a sense of community among graduate students; organizing service events; and organizing events to bring in money to fund our travel grants program which gives money to members so they can attend conferences.

Herpetology Club,

Co-President

August 2010 to May 2012, *UGA*

Member

August 2009 to May 2010 and August 2012 to May 2013, *UGA*

- This is an undergraduate organization for all students interested in herpetology.
- Going to schools and local events to educate children and adults of all ages about reptiles and amphibians
- Coordinating care and use of a collection of 20 outreach animals
- Securing yearly funding for the maintenance of outreach animals
- Sampling and identification of native herpetofauna
- Establishing country records through competitive bioblitz events.

Blue Key Honor Society

- “Blue Key recognizes junior and senior men and women of outstanding character and ability who have achieved distinction for scholarship and recognition for service and leadership.”

TEACHING EXPERIENCE

Undergraduate Teaching Assistant for Herpetology (WILD 4040/6040)

January-May 2011 and 2013 *UGA*

- Instruction in field techniques and identification of reptiles & amphibians
- Creating class website (Googlesites)
- Grading
- Setting up lab practicals (test on animal identification and knowledge of their natural history)

EXPERIENCES ABROAD

Fieldwork, Mongolia

September 4-20, 2015

At the start of my PhD I joined my lab to travel to Mongolia to put GPS-collars on Mongolian gazelles. We spent 11 days traveling through the Eastern Steppes, setting up nets to capture gazelles. We got to work with a Mongolian field crew and our collaborators in Mongolia. Although most of them did not speak English we nonetheless managed to work together as a team. 11 days of camping in middle of nowhere gave us lots of time to learn about

the Eastern Steppe and Mongolian culture from our field crew and local herders. By the end of the trip we had collared 19 gazelles and traveled from Ulaan Baatar to Choibalsan to Matad and back.

International Studies Abroad, Intensive Spanish Language Program at the University of Belgrano

September 1 to December 8, 2012, Buenos Aires, Argentina

- Completed 16 credit hours of Spanish grammar classes, progressing through intermediate and high intermediate levels of Spanish
- 3 months of immersion living with a host family
- Weekend trips to Mendoza and the Iguazu Falls.

ANIMAL HUSBANDRY EXPERIENCES

Riverbanks Zoo and Garden

October 2007 to May 2015, Columbia, SC

- Volunteer zoo keeper in the herpetology department
- Providing care for eleven species of endangered turtle in addition to helping with clicker training and enrichment activities for the animals.

Carolina Wildlife Care

January 2003 to October 2007, Columbia, SC

- Husbandry and rehabilitation of squirrels, song birds, waterfowl, opossums, rabbits, and reptiles.

HONORS AND AWARDS

2014 Honorable Mention in the National Science Foundation Graduate Research Fellowship Program

Douglas R. Phillips Award for Graduate Students, Clemson University

Graduate Recruitment Fellowship, Clemson University

2012 Barry M. Goldwater Scholarship

- National award for achievement and potential in science

2012 Udall Scholarship

- National award for environmental leadership

Best Student Oral Presentation, Runner Up, 2013 Turtle Survival Alliance Conference

Best Student Poster, 2012 Turtle Survival Alliance Conference

2012 AT&T Student Leadership Award from the Blue Key Honor Society at UGA

2012 Rotaract Student Service Award for the Odum School of Ecology

2012 Honors International Scholarship Recipient

- 1 of 40 students at UGA selected
- \$6,000 scholarship to study abroad in Argentina in the fall of 2012

Center for Undergraduate Research Opportunities (CURO) at UGA Summer Research Fellowship

- 1 of 35 students at UGA selected
- \$3,000 to conduct independent research (summer 2011)

Odum Global Scholars for Undergraduate Study Award

May 2011, UGA

- For outstanding contributions in undergraduate research

Richardson-Golley Undergraduate Citizenship Award

May 2011, UGA

- “Recognizes Ecology undergraduates who have achieved academically and who have exhibited leadership within the undergraduate student body to encourage others to become better stewards for sustainability and conservation of natural resources and to enhance our undergraduate reputation on campus.”

John G. Hollingsworth Award

May 2011, UGA

- for excellence in undergraduate mathematics studies