

# MEGAN E. WINZELER

Savannah River Ecology Lab  
University of Georgia  
P.O. Drawer E, SRS Bldg. 737-A  
Aiken, SC 29802

(812) 746 – 9511  
mewinzeler@srel.uga.edu  
meganwinzeler@gmail.com

## EDUCATION

---

- 2013 - present**    **SAVANNAH RIVER ECOLOGY LAB, ODUM SCHOOL OF ECOLOGY, UNIVERSITY OF GEORGIA: M. S. – *ECOLOGY***  
ADVISOR: Dr. Stacey L. Lance  
Thesis Title: *Multiple stressors and Amphibian Immune Response*  
GPA: 3.82
- 2009 - 2013**    **PURDUE UNIVERSITY: B. S. – *WILDLIFE SCIENCE***  
GPA: 2.81 GRE: 300

## PROFESSIONAL EXPERIENCE

---

- 2013 - present**    **RESEARCH ASSISTANT, Savannah River Ecology Lab, Odum School of Ecology, University of Georgia**  
My thesis combines both field and experimental components to determine how stressors influence disease presence and coinfection in amphibians, focusing on ranavirus and Chytrid.
- 2012 - 2013**    **UNDERGRADUATE RESEARCHER, Forestry and Natural Resources Department, Purdue University**  
Working under Dr. Rod N. Williams, I am used six sites that cover the natural regions of Indiana to determine the presence of ranavirus in green frog tadpoles and compared the accuracy of two molecular techniques.
- 2012**    **SEA TURTLE RESEARCH ASSISTANT, Florida Cooperative Fish and Wildlife Unit, Port. St. Joe, FL.**  
Aided University of Florida researchers in the saturation tagging of nesting loggerhead sea turtles on two beaches (one public and one military) using PIT tags, flipper tags, GPS satellites, and accelerometers.
- 2011-2012**    **FIELD TECHNICIAN, Department of Forestry & Natural Resources, Purdue University**  
Collected blood and tissue samples from a variety of herpetofauna, marked salamanders with Visual Implant Elastomers (VIEs), and cared for juvenile eastern hellbenders as part of a reintroduction program.
- 2010**    **ANIMAL CARETAKER INTERN, Columbian Park Zoo, Lafayette, IN**  
Cared for ten animals on a daily basis, creating sensory and feeding enrichment while maintaining detailed records of daily meals, enrichment and behaviors of exotic wildlife. Worked on creating a clicker training program for a tamandua and a Bennett's wallaby.

## VOLUNTEER & SERVICE

- 2013-2014**    **FIELD TECHNICIAN, Savannah River Ecology Lab, University of Georgia**  
Worked with another graduate researcher to assess populations through field surveys and mark/recapture of American alligators on the Savannah River Site.
- 2012**    **FIELD TECHNICIAN, Department of Forestry & Natural Resources, Purdue University**  
Assisted a graduate student and technicians for Allegheny woodrat trapping grid set-up, trap checks, radio collaring, and radio telemetry. Trapped, banded and properly handled small mammals including voles, shrews, and mice. In addition, I set-up camera traps and scent stations.
- 2012**    **PRESCRIBED BURNER, Department of Forestry & Natural Resources, Purdue University**  
Aided in prescribed burns of multiple Purdue properties and at Prophetstown State Park. I learned how to properly handle fire equipment but also power tools like chainsaws and hand-held power tools in order to clear brush and debris.
- 2011**    **BIRD SURVEYOR, Department of Forestry and Natural Resources, Purdue University**  
Partook in Christmas bird count surveys for the Lafayette area, in an annual bird count at Crane Naval Base that contributes to a long-term data set for the Navy, as well as Saw-whet owl mistnetting at Hoosier National Park.

## DEVELOPMENT

- 2011 **Conservation Leaders for Tomorrow, Max McGraw Wildlife Foundation**  
I gained valuable skills focused on the development of safe gun-handling procedures and shooting techniques on the range and in the field. I participated in discussions about hunter-society interactions and the public views of current hunting conservation practices.
- 2011 **Summer Practicum, Department of Forestry & Natural Resources, Purdue University**  
Attended field courses for 5 weeks in the Upper Peninsula of Michigan to learn skills like GPS and compass orienteering, forestry exercises, bird and bat mistnetting, AnaBat analysis, small mammal trapping, deer drives, and King Strip surveys.

## PUBLICATIONS

---

\*denotes undergraduate; †denotes co-first authorship

- In press** †**Winzeler, Megan E.**, †Matthew T. Hamilton, Tracey D. Tuberville, and Stacey L. Lance. First isolation of Ranavirus from an eastern mud turtle (*Kinosternon subrubrum*) with associated morbidity and mortality in South Carolina. *Disease of Aquatic Organisms*
- 2013 Assessing the distribution and prevalence of two amphibian diseases. **Winzeler, Megan E.\***, and Rod N. Williams. *The Compass*. Purdue University Forestry and Natural Resources
- In review** **Winzeler, Megan E.\***, S. J. A. Kimble and Rod N. Williams. Determining the presence of Ranavirus in green frogs of Indiana.

## PRESENTATIONS

---

\*denotes presenting as undergraduate

- 2015 **Winzeler, M.E.**, D. E. Scott, and S. L. Lance. *Influence of Natural and Anthropogenic Stressors on Amphibian Response to Disease*. Odum School of Ecology Graduate Student Symposium, Athens, GA. (oral presentation)
- 2014 **Winzeler, M. E.**, C. N. Love, D. E. Scott, R. Beasley, S. O. Nunziata, and S. L. Lance. *Prevalence of Two Amphibian Disease at Contaminated Wetlands on the Savannah River Site, SC*. Joint Meetings of Ichthyologists and Herpetologists. Chattanooga, TN. (oral presentation)
- 2014 Love, C. N., **M.E. Winzeler**, S.L. Lance, S.O. Nunziata, D.E. Scott. *Prevalence of Ranavirus at Contaminated and Uncontaminated Sites on the SRS*. Society for Integrative Conservation Biology Annual Meeting. Austin, TX. (poster)
- 2013 Love, C. N., **M.E. Winzeler**, S.L. Lance, S.O. Nunziata, D.E. Scott. *Effects of Contaminants on Amphibian Disease Prevalence*. Georgia Chapter of the Wildlife Society Annual Meeting. Athens, GA. (poster)
- 2013 **Winzeler, M. E.\***, S. J. A. Kimble and R. N. Williams. *Determining the presence of Ranavirus in green frogs of Indiana*. International Symposium on Ranaviruses, Wildlife Disease Association Annual Conference. Knoxville, TN. (poster)
- 2013 **Winzeler, M. E.\***, S. J. A. Kimble and R. N. Williams. *Determining the presence of Ranavirus in green frogs of Indiana*. College of Agriculture Undergraduate Research Symposium. (poster)
- 2013 **Winzeler, M. E.\***, S. J. A. Kimble and R. N. Williams. *Determining the presence of Ranavirus in green frogs of Indiana*. Indiana Chapter of the Wildlife Society Annual Meeting. Lafayette, IN. (poster)
- 2013 **Winzeler, M. E.\***, S. J. A. Kimble and R. N. Williams. *Determining the presence of Ranavirus in green frogs of Indiana*. Butler Undergraduate Research Symposium. Indianapolis, IN. (poster)
- 2013 **Winzeler, M. E.\***, S. J. A. Kimble and R. N. Williams. *Determining the presence of Ranavirus in green frogs of Indiana*. Forestry & Natural Resources Research Symposium. West Lafayette, IN. (poster)

## GRANTS & AWARDS

---

- 2014 Student Travel Award. Joint Meetings of Ichthyologists and Herpetologists. Chattanooga, TN. July 30 – August 2, 2014. \$300
- 2014 Student Travel Award. Society for Integrative Conservation Biology Annual Conference. Austin, TX. January 3-7, 2014. \$250
- 2013 *Feast Like a Hellbender*. Office of Engagement Student Program Grant, Spring 2013. Purdue University. Principle Investigator: Rod N. Williams. \$500

2013	<i>Assessing the Presence of Ranavirus and Batrachochytrium dendrobatidis (Bd) in Indiana.</i> College of Agriculture Undergraduate Research Grant, Fall 2012. Purdue University. Principle Investigator: Rod N. Williams.	\$500
2013	Student Travel Award. University of Georgia Office of the Dean. University of Georgia.	\$250
2013	Student Travel Grant. The 2 <sup>nd</sup> International Symposium on Ranaviruses. Knoxville, TN. July 27-28, 2013.	\$500
2012	<i>Benefits of Professional Travel for The Purdue Student Chapter of The Wildlife Society</i> <b>Winzeler, Megan E,</b> and Jessica T. Grady. Purdue Agricultural Council Grant, Fall 2012. Purdue University.	\$1,800

## TEACHING, EXTENSION, & OUTREACH

### PUBLICATIONS (\*denotes undergraduate authorship)

2014	<u>Ranaviruses: Emerging Threat to Amphibians.</u> <b>Winzeler, Megan E.*</b> , Seth M. LaGrange* and Jason T. Hoverman. Purdue Extension Services. FNR-485-W.
2012	<u>What is ranavirus?</u> <b>Winzeler, Megan E.*</b> Blog Post for <i>Got Nature?</i> Purdue Outreach and Extension

### CERTIFICATIONS

2014	PROJECT LEARNING TREE
2014	WILD
2014	WET

### EXPERIENCE

EVENT	POSITION	ORGANIZATION	AGE	#INDIV	YEAR
<b><u>Boy Scout Hornday Conservation Weekend</u></b> <i>Taught and certified Boy Scouts for the Herpetology Merit Badge.</i>	Teacher	Savannah River Ecology Lab Outreach	10-12	20	2014
<b><u>Paul Knox Middle School</u></b> <i>Spoke with students about undergraduate and graduate school preparation and answered questions about getting into college.</i>	Teacher	Savannah River Ecology Lab	11-13	~80	2014
<b><u>Touch an Animal Day 2014</u></b> <i>Designed an educational poster about my current thesis research to disseminate to the public as well as answering general herpetology questions.</i>	Volunteer	Savannah River Ecology Lab Outreach	Public	~500	2014
<b><u>Teen Week</u></b> <i>Spoke with at-risk middle school students about the natural history of local flora and fauna and how researchers are working to conserve them.</i>	Teacher	Sandy Creek Nature Center	Middle-school	14	2014
<b><u>Savannah River Site Kid's Day</u></b> <i>Spoke with ~150 parents and children about the natural history of animals native to South Carolina.</i>	Volunteer	Savannah River Ecology Lab	Public	~150	2014
<b><u>"What is a Herp?"</u></b> <i>Presented natural history and conservation information about Southeastern amphibians to members of the public taking a Master Naturalist certification course.</i>	Lecturer	University of Georgia Extension Services	Adult	20	2014
<b><u>Touch An Animal Day 2013</u></b> <i>Engaged with public visitors about local amphibian ecology and conservation issues while answering general questions from participants.</i>	Volunteer	Savannah River Ecology Lab Outreach	Public	~600	2013
<b><u>EcoREACH</u></b> <i>Taught local elementary and middle school-aged</i>	Teacher	University of Georgia	K-8 <sup>th</sup> grade	87	2013

students about water quality and related information to local rivers and watersheds.

<b><u>Faith Christian Elementary School</u></b>	Teacher	Purdue University	3 <sup>rd</sup> grade	25	2013
<i>Along with two other undergraduate students, spoke with 3<sup>rd</sup> graders about sea turtle life history and conservation.</i>					
<b><u>Feast Like a Hellbender</u></b>	Planning Committee	Purdue University	Public	102	2013
<i>Worked with faculty, graduate and undergraduate students to organize and plan the dinner in the Blue River Watershed for the public to interact with eastern hellbender researchers and conservationists.</i>					
<b><u>Mayflower Mill Elementary School</u></b>	Teacher	Purdue University	3 <sup>rd</sup>	25	2013
<i>Taught student for 4 hours/week for 9 weeks about natural resources while working with 3 other undergraduates to plan the lessons each week.</i>					
<b><u>FNR251: Systematics of Amphibians, Reptiles, and Birds</u></b>	Teacher's Assistant	Purdue University	Undergraduate	87	2013
<i>Attended lectures to prepare study sessions and reviews. Maintained weekly office hours and an online discussion forum to answer questions about the course.</i>					
<b><u>Tropical Stream Ecology of Costa Rica</u></b>	Teacher's Assistant	Purdue University	Undergraduate	12	2013
<i>Working with a faculty member, I co-instructed students in the field sampling techniques of freshwater fish species and herpetofauna in mountainous tropical rainforests.</i>					
<b><u>Jr. Naturalist Day</u></b>	Chair	Purdue University	Elementary	40	2012-2013
<i>Lead 8 undergraduate peers in planning and teaching the importance of water quality for humans and wildlife. Additionally, assisted other peers in the organization of the first outreach day that focused on plant identification and food webs.</i>					
<b><u>Springfest</u></b>	Co-Chair	Purdue University	Public	~30,000	2012-2013
<i>Worked with a Co-Chair to plan a booth focused on amphibian and reptile life history characteristics and allowed visitors to receive "hands-on" experiences with local herpetofauna as well as other wildlife. Also managed volunteers through the entire day of working.</i>					
<b><u>"Sea Turtle Summer"</u></b>	Invited Lecturer	Purdue University Zoological Society	College-level	~150	2012
<i>Gave a seminar (~60 minutes) to undergraduates discussing my experiences with loggerhead sea turtles and the research I was involved with while a technician.</i>					
<b><u>4-H &amp; FFA Wildlife Habitat Education Program</u></b>	Volunteer	Purdue University	Grades 9-12	40	2012
<i>Observed and judged oral presentations of management plans from local high school students and assisted lead organizers with event-day problem solving.</i>					

## STUDY ABROAD

- 2012 **TROPICAL STREAM ECOLOGY OF COSTA RICA, Purdue University**  
Used electroshocking techniques in small streams to assess the diversity of freshwater species for a multiyear tropical freshwater fish study. The group also used quadrat surveys and transects sampling for tropical herpetofauna.
- 2011 **INTERNATIONAL RESOURCES OF SCANDINAVIA, Purdue University**  
Examined sustainable forestry and agricultural practices while reviewing the European Union's Water Framework Directive, particularly the effects on wetland ecosystem functions and conservation practices in Estonia.

**2011 AGRICULTURE IN IRELAND, Purdue University**  
Observed farming practices in the dairy and beef industries across Ireland and toured many local establishments to learn about Irish history and culture.

## SERVICE

---

**2015 GRADUATE STUDENT REPRESENTATIVE, Undergraduate Programs, SREL**

**2012-2013 STUDENT COUNCIL REPRESENTATIVE, The Purdue Student Chapter of The Wildlife Society**  
Worked as a liaison between the student chapter, departmental, and College of Agriculture student councils. I organized The Wildlife Society booth at Purdue University's SpringFest education outreach day for the public and organized a duck hunt in association with the IDNR for members.

**2011-2013 HERPETOLOGY WORKING GROUP LEADER, The Purdue Student Chapter of The Wildlife Society**  
Worked with 2 co-leaders to plan, organize, and implement activities for members of the Society that specifically pertained to herpetology field exercises and guest speakers. Co-authored the biweekly Herpetology Working Group Newsletter with articles, photos, and news events relating to amphibians and reptiles.

**2011-2013 MENTOR, Forestry & Natural Resources Undergraduate Mentoring Program, Purdue University**  
Mentored 6 incoming freshman Wildlife students to the Forestry and Natural Resources Department, introducing them to faculty and assisting in homework and various questions about Purdue University.

**2010-2012 TREASURER, Purdue University Chapter of Jane Goodall's Roots & Shoots**  
Assisted the other officers in planning meetings and activities for the club while maintaining records of group spending and costs while acting Treasurer.

## PROFESSIONAL SOCIETIES

---

2011-present THE WILDLIFE SOCIETY  
2013-present SOCIETY FOR INTEGRATIVE COMPARATIVE BIOLOGY  
2013-present TURTLE SURVIVAL ALLIANCE  
2014-present SOCIETY FOR THE STUDY OF AMPHIBIANS AND REPTILES  
2014-present AMERICAN SOCIETY OF ICTHYOLOGISTS AND HERPETOLOGISTS

## HONORS AND AWARDS

---

2013-2015 Graduate Research Assistantship, University of Georgia  
2013 Forestry and Natural Resources Department Leadership Award

## REFERENCES

---

Dr. Stacey L. Lance (803) 725-0988 lance@srel.uga.edu Associate Research Scientist Savannah River Ecology Lab University of Georgia	Dr. Jason T. Hoverman (765) 496 – 3263 jhoverm@purdue.edu Assistant Professor Forestry and Natural Resources Department Purdue University
Dr. Rod N. Williams (765) 494 – 3568 rodw@purdue.edu Associate Professor Forestry and Natural Resources Department Purdue University	David E. Scott (803) 725 – 5747 scott@srel.uga.edu Research Staff Savannah River Ecology Lab University of Georgia
	Dr. John B. Dunning (765) 494 – 3565 jdunning@purdue.edu Professor of Wildlife Ecology Forestry and Natural Resources Department Purdue University