

## Ernie Osburn

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Department of Biological Sciences, Virginia Tech  
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### EDUCATION

#### Virginia Tech

Blacksburg, VA

Ph.D. Student, Biological Sciences  
Interfaces of Global Change (IGC) Fellow  
Advisor: Dr. Jeb Barrett

#### The University of Georgia (UGA)

Athens, GA

*Master of Arts in Teaching, Secondary Science Education*, College of Education  
Overall GPA: 4.00/4.00

August 2011

*Bachelor of Science in Ecology*, Odum School of Ecology

May 2009

*Bachelor of Science in Biology*, Franklin College of Arts & Sciences

Overall GPA: 3.93/4.00

### PUBLICATIONS

Strickland, M.S., **Osburn, E.**, Lauber, C., Fierer, N., Bradford, M.A. 2009. Litter quality is in the eye of the beholder: decomposition rates as a function of inoculum characteristics. *Functional Ecology* 23: 627-636

### RESEARCH EXPERIENCE

#### GIFT Fellowship Program

Summer 2012, 2013

Paterson Lab, Department of Genetics, University of Georgia

Athens, GA

- Assisted researchers in conducting sorghum and cotton genomics investigations.
- Mastered laboratory skills such as gel electrophoresis, PCR, and DNA extraction.

#### Research Assistant,

August 2007-August 2009

Altizer Lab, Odum School of Ecology, University of Georgia

Athens, GA

- Collected monarch butterflies in the field, managed laboratory populations of monarch butterflies, and assayed all butterflies for presence and prevalence of protozoan parasites.
- Managed a greenhouse population of milkweed plants for the rearing of monarchs.
- Assayed monarch immune response to varying parasite loads.

#### Research Assistant

August 2006-May 2007

Bradford Lab, Odum School of Ecology, University of Georgia

Athens, GA

- Collected and processed soil and leaf litter samples and measured rates of soil respiration under various environmental conditions.
- Carried out and published a study on the abilities of soil microbial communities sourced from different ecosystems to process leaf litter resources of differing chemical compositions.

## TEACHING EXPERIENCE

### Science teacher

August 2011 – May 2016  
Gainesville, GA

### Gainesville High School

- Instructed 9<sup>th</sup> – 12<sup>th</sup> grade students in Biology, Physical Science, Environmental Science, and Earth Systems courses, including ESOL, Co-taught, and Honors course sections.
- Used a variety of research-based teaching and assessment strategies that promote student engagement through hands-on, inquiry based learning.
- Led a collaborative team of teachers for each course in developing pacing guides, writing common assessments, and collecting assessment data for monitoring student progress.
- Consistently earned level 3-4 (proficient - exemplary) ratings on TKES standards as well as level 4 (exemplary) student growth percentiles on EOC/EOCT results.

### Outreach Coordinator

August 2010-August 2011  
Athens, GA

### University of Georgia Herpetological Society (UGHS)

- Conducted educational outreach events at local elementary schools, middle schools, high schools, nature centers, as well as the UGA campus.

### Undergraduate Teaching Assistant

January-May 2009  
Athens, GA

### Herpetology (ECOL 4040), University of Georgia

- Assisted in the development and delivery of Herpetology lab materials focusing on student-centered presentations of live and preserved reptile and amphibian specimens.

## LEADERSHIP EXPERIENCE

### Science Department Chair

July 2012 – May 2016  
Gainesville, GA

### Gainesville High School

- Attended school leadership meetings and participated in developing school policies.
- Regularly held science department meetings to communicate information to science teachers.
- Managed department accounts and purchased necessary materials and equipment for each science course.
- Helped create the science master teaching schedule each year by matching course section needs with teacher strengths and weaknesses.
- Mentored two science teachers in their first year at Gainesville High School.

## HONORS AND ACHIEVEMENTS

- Appalachian Trail Thru-Hike June 2016 – November 2016
- UGA College of Education Student Teaching Scholarship January 2011-May 2011
- Robert J. Noyce Fellowship Recipient Summer 2010-Summer 2011
- Presidential Scholar Spring 2006, 2007, Summer 2008, Fall 2008
- Dean's List Fall 2005, 2006, 2007, Spring 2008, 2009
- Charter Scholarship Recipient August 2005-May 2009
- HOPE Scholarship Recipient August 2005-May 2009