

# Alexandria C. Moore

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## EDUCATION

**Yale University – New Haven, CT** **Fall 2013 – Present**  
Ph.D. in Forestry and Environmental Studies

**University of Michigan – Ann Arbor** **Fall 2011 – Summer 2013**  
M.S. in Ecology and Evolutionary Biology in the Frontier's Program

The Frontiers Master's Program is an NSF-funded program, whose goal is to increase the number of traditionally underrepresented groups in ecology and evolutionary biology, including African-American, Hispanic, Native American and Pacific Islander.

**University of Michigan – Ann Arbor** **Fall 2009 – Summer 2011**  
B.S. in Ecology and Evolutionary Biology

**University of Michigan – Dearborn** **Fall 2007 - Summer 2009**  
Concentration: Biology

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## GPA AND GRE

**University of Michigan – Undergraduate Student** **Fall 2007- Summer 2011**  
B.S. GPA on 4.0 Scale: 3.6 (A)

**University of Michigan – Graduate Student** **Fall 2012 – Winter 2013**  
M.S. GPA on 9.0-scale: 7.7 (A)

### Revised Graduate Record Examination Scores

Verbal Reasoning Score: 163  
Quantitative Reasoning Score: 158  
Analytical Writing Score: 4.5

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## AWARDS

**University of Michigan – Ann Arbor**  
Rackham Graduate School Bridges Fellowship, 2013

The Rackham Graduate School built funds for the Frontiers Master's students in order to allow them to focus on their thesis rather than having to hold an additional Graduate Student Instructor position.

**University of Michigan - Ann Arbor**  
Ecology and Evolutionary Biology Department Block Grant Award, 2012-2013

The EEB Block Grants are awarded annually on a competitive basis. Decisions are based on factors such as promise of research, adequacy of research plans, schedule for use of the funds, and past progress.

**University of Michigan – Ann Arbor**  
Rackham Graduate Student Research Award, 2012-2013

The Rackham Graduate Student Research Grant is designed to support Rackham graduate students who need assistance to carry out research that advances their progress toward their degree.

**University of Michigan – Dearborn**

Dean's Scholarship, 2007 – 2009

The Dean's Scholarship is a merit-based award in which an annual scholarship of \$3,000 for up to four years is offered.

**University of Michigan – Dearborn**

Michigan Promise Scholarship, 2007 – 2009

The Michigan Promise Scholarship was a merit-based scholarship program in the state of Michigan that provided up to \$4,000 towards post-secondary education.

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**TEACHING EXPERIENCE****University of Michigan****Fall 2012**

Graduate Student Instructor – Biology 100: Biology for Nonscientists

I developed a syllabus, constructed weekly lesson plans, wrote exam questions, administered all grades, and facilitated group assignments and discussions. All students come in with a rudimentary biology background and I help to teach them basic concepts in biology and ecology, including population dynamics, species interactions, global climate change, and human physiology. Individuals or small groups received one-on-one support with course concepts during weekly office hours.

**University of Michigan****Fall 2011 – Winter 2012**

Graduate Student Instructor – Biology 171: Introduction to Ecology and Evolutionary Biology

I developed a syllabus, constructed weekly lesson plans, administered all grades, and facilitated group assignments and discussions. Students were taught basic concepts in ecology and evolutionary biology, including population dynamics, species interactions, ecosystem ecology, and conservation biology. Individuals or small groups received one-on-one support with course concepts during weekly office hours.

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**RESEARCH EXPERIENCE****University of Michigan – M.S. Thesis Research****Fall 2011 – Present**Graduate Student Researcher With **Thomas Duda**, Associate Professor, University of Michigan Department of Ecology and Evolutionary Biology

*'Evaluation of a potentially highly restricted freshwater gastropod species: Implications for conservation'*: The purpose of this ongoing study is to evaluate the species status of a putative new species of freshwater snail in southeastern Oregon through molecular and morphological techniques. Is this snail a distinct species? If so, what is its current status within its habitat? My research has examined the habitat in which this snail is found, documenting its ecology and distribution as well as provided information on population size and environmental conditions for conservation purposes.

**University of Michigan – Field Ecology****Fall 2011**Graduate Student Researcher with **Ivette Perfecto**, Professor, University of Michigan School of Natural Resources and Environment

*'Vegetation- and Conspcific-Dependent Spatial Distribution in Four Amphibian Species of Southeast Michigan'*: This study focused on how the presence of three tree species (witch hazel, red maple, and black cherry) and competitors within the E.S. George Reserve (Pinckney, MI) ecosystem influenced the spatial distributions of local amphibians. We found conspecific and habitat composition aggregation among salamanders. These results suggest that several factors influence how amphibians on the reserve are distributed within their ecosystem.

**University of Michigan – Field Ecology****Fall 2011**

Graduate Student Researcher with **David Allen**, PhD Student, University of Michigan Department of Ecology and Evolutionary Biology

*'Density-Dependent Occupation of Witch Hazel (Hamamelis virginiana) by Oak Leaf Rollers (Archips semiferana)'*: We documented the relationship between host plant density and parasite infections rates in the E.S George Reserve (Pinckney, MI) by observing the infection rate of oak leaf roller (*Archips semiferana*) on witch hazel (*Hamamelis virginiana*). Parasite density was only slightly correlated with host density, a statistically insignificant relationship.

**University of Michigan Biological Station – Independent Research****Summer 2011**

Undergraduate Student Researcher with **Mark Hunter**, Henry A. Gleason Collegiate Professor, University of Michigan Department of Ecology and Evolutionary Biology

*'Herbivory and Milkweed Fitness – A study of the effects of herbivory on plant fitness'*: This research focused on the fitness impacts of herbivores on the common milkweed, *Asclepias syriaca*. The results of this research suggest that herbivores may have a substantial impact on the direction and intensity of evolution in their plant hosts.

**University of Michigan Biological Station – General Ecology****Summer 2011**

Undergraduate Student Researcher with **Curt Blankespoor**, Professor, Calvin College Department of Biology

*'The abundance of snail species, Stagnicola emarginata, correlates with the prevalence of parasite infections in lake fish'*: In this study, we assessed the relationship between snail abundance and the prevalence of two parasite species that share this intermediate host. We specifically looked at how the presence of one parasite species may correlate with the presence of another. Results indicate that there is a non-linear correlation between host abundance and parasite load.

**Student Conservation Association (SCA)****Summer 2010**

U.S. Fish and Wildlife Service Intern with **William Kolodnicki**, Moosehorn National Wildlife Refuge Manager, and **Maurice Mills**, Wildlife Biologist.

During the summer of 2010, I participated in four projects with the U.S. Fish and Wildlife Service at the Moosehorn National Wildlife Refuge, ME. The first involved the assessment of local distributions and habitat preference of the American woodcock in Baring, Maine. The second project was an ecological survey of local waterfowl to determine brooding success and distribution. The third project focused on wetland restoration and the improvement of water passageways for aquatic species. Finally, the fourth project involved analyzing the distribution and removal of three common invasive plant species: purple loosestrife, spotted knapweed, and common buckthorn.

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**POSTERS AND PRESENTATIONS****Ecological Society of America 97<sup>th</sup> Annual Meeting, Portland, Oregon, 2012**

Poster Presentation: *'Evaluation of a potentially highly restricted freshwater gastropod species: Implications for conservation.'*

**University of Michigan Biological Station, Pellston, Michigan, 2011**

Frontiers Symposium 2011. *'Herbivory and Milkweed Fitness: A study of the effects of herbivory on plant fitness.'*

**U.S. Fish and Wildlife Service, Moosehorn National Wildlife Refuge, Baring, Maine, 2010**

Refuge Management Meeting 2010. *'The Importance of Culverts and Fish Passageways in Southeastern Maine.'*

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**PRESENTED PAPERS AND UNPUBLISHED MANUSCRIPTS**

(Available upon request)

*'Vegetation- and Conspecific-Dependent Spatial Distribution in Four Amphibian Species of Southeast Michigan.'* (2011) by Alexandria Moore, Anat Belasen, Erin Burkett, and Allison Injaian.

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*'Density-Dependent Occupation of Witch Hazel (Hamamelis virginiana) by Oak Leaf Rollers (Archips semifera)'* (2011) by Erin Burkett, Alexandria Moore, Beatriz Otero, Alexander Taylor, and Mariana Valencia.

*'Herbivory and Milkweed Fitness – A study of the effects of herbivory on plant fitness.'* (2011) by Alexandria Moore.

*'The abundance of snail species, Stagnicola emarginata, correlates with the prevalence of parasite infections in lake fish.'* (2011) by Alexandria Moore.

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## PROFESSIONAL ASSOCIATIONS

The Ecological Society of America

The Sierra Club

The Nature Conservancy

Society for Conservation Biology

Malacological Society of America

The Student Conservation Association

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## SERVICE, OUTREACH and STUDENT ORGANIZATIONS

### **Wayne Memorial High School Bright Futures Volunteer**

**Fall 2012**

As a volunteer, I built connections with low-income youth through participation in an afterschool club called "Mad Scientist". In this club, Bright Futures organization members construct activities that encourage curiosity and investigation in the sciences. One of the main functions of this club is to provide students with an alternative resource for education and also build relationships with relatable and successful adults to provide them with role models to connect their aspirations with.

### **University of Michigan EEB Department Fall Recruitment Partnership**

**Fall 2012**

Each fall the University of Michigan EEB Department invites undergraduate students who are traditionally underrepresented in the sciences to the university to visit and learn about the EEB Department. As a participant in this program, I have had the opportunity to meet with visiting students, help them navigate the college campus, share my experiences as a graduate student and encourage them to pursue further studies in their respective scientific fields, potentially at the University of Michigan.

### **University of Michigan EEB Department Blog Author**

**Summer 2012**

The Ecology and Evolutionary Biology Department has created a blog on which current graduate students share their experiences working on their research. I am a contributing author on this blog.

### **University of Michigan EEB Alumni and Donor Letter Author**

**Winter 2012**

As requested by the EEB department Collegiate Professor, Mark Hunter, I wrote a letter describing my academic and financial experiences as both an undergraduate and graduate student at the University of Michigan. This letter was sent to undergraduate alumni and donors in order to gain financial support for current students and programs.

### **University of Michigan Frontiers Masters Program Admissions Committee**

**Winter 2012**

As an Admissions Committee member, I helped with logistical tasks such as organizing the travel and lodging arrangements of visiting prospective students as well as providing transportation and food. I also participated in educating prospective students about the University of Michigan campus and the Frontiers program, providing personal

insight while also conducting interviews. The Admissions Committee admitted students based on a compilation of information from both interviews and application credentials.

**U.S. Fish and Wildlife Service – Youth Conservation Corps Leader**

**Summer 2010**

I led youth groups on fieldtrips, facilitating environmental education and habitat restoration. Students were taught the importance of community involvement in promoting environmental quality and the practices undertaken in Refuge Management.