**Eleanor McCabe**

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**Education**

**University of New Hampshire**, Durham, NH

Master’s student, Biology, September 2015 – August 2017

*Nest provisioning and homing behavior of Cerceris fumipennis, a useful biosurveillance tool of buprestid beetles*

Thesis Advisor: Donald Chandler

**University of Wisconsin**- Madison, Madison, NH

Bachelor of Arts, Zoology, 2014

Dean’s list, Phi Beta Kappa Honor’s Society

 **Publications**

**McCabe, E**., Garb, H., Loeb, G. (2017). Responses of crop pests and natural enemies to wildflower borders depends on functional group. Insects.

**Work Experience**

Winter 2017- Present- **Biological Laboratory Technician, University of Kentucky**

Summer 2015 - August 2017- **Masters Research, University of New Hampshire**

• “Nest provisioning and homing behavior of *Cerceris fumipennis*, a useful biosurveillance of buprestid beetles”

• Devised individual study topic and research questions. Developed protocol for field observation and lab.

• Designed and constructed tools for field study.

• Conducted weekly observations of *Cerceris fumipennis* colonies, and weekly in field flight experiments.

• Collected and identified buprestid prey to species.

• Lead a field team of two to four undergrads into the field for observations.

**•** Conducted statistical analysis on data using JMP©.

Summer 2014 - **New York State Agricultural Experiment Station’s Summer Research Scholars Program, Cornell University**

•“Responses of crop pests and natural enemies to wildflower borders depends on functional group” and “Pollinators of strawberries continue to use resources from wildflower strips after strawberry bloom”

• Devised individual study topic and research questions. Developed protocol for field observation

• Conducted field observations where wild bees were identified to genera, and some specimen were collected from each site and identified to species.

• Collected insects through vacuum sampling and pit fall traps in strawberry plots. Insects collected where identified to family, or important pest of strawberries were identified to species.

• Raised *Peristenus digoneutsi* colony from wild Tarnished Plant Bugs.

Spring 2013 – Independent **Study in the Gratton Labs, University of Wisconsin**

* Lab work on a study of bumblebee colonies in different orchard landscapes with varying management protocols.
* Determined colony health through a number of variables: length of workers, number of queens, and average amount of body fat.

Spring 2012- **Caterpillars and Parasitoids of the Eastern Andes, Yanayacu Biological Station**

• Collection of caterpillars through beat netting.

• Raising caterpillars until adulthood or parasite emersion.

• Identification of caterpillars to known species.

**Teaching Experience**

Fall 2015- Human Anatomy & Physiology, 507

Spring 2016- Human Anatomy & Physiology, 508

Fall 2016- Human Anatomy & Physiology, 507

Spring 2017- Human Anatomy & Physiology, 508

**Grants and Scholarships**

Fall 2016- **Travel Grant**, ($200), University of New Hampshire

Fall 2012- Spring 2014- **Tozer Scholarship** ($2000), The Tozer Foundation

**Presentations**

February 2017- McCabe, Ellie.; Donald Chandler. “Smokey Winged Beetle Bandit; a useful tool in monitoring the spread of Emerald Ash Borer” New Hampshire Farm and Forest Expo. Oral presentation.

March 2017- McCabe, Ellie.; Donald Chandler. “Homing Range of *Cerceris fumipennis*” University of New Hampshire Graduate Conference. Poster presentation

September 2016- McCabe, Ellie.; Donald Chandler. “The nest provisioning behavior of *Cerceris fumipennis”* International Conference of Entomology. Oral presentation

March 2016- McCabe, Ellie.; Donald Chandler. “The nest provisioning behavior of *Cerceris fumipennis*” Biology Department Graduate Student Seminar. Oral presentation

November 2015- McCabe, Ellie.; Donald Chandler. “The behavior of *Cerceris fumipennis*; a useful tool in monitoring the spread of Emerald Ash Borer (*Agrilus planipennis*). A research propsal” University of New Hampshire’s Biology Department Seminar Series. Oral presentation.

Summer 2014- McCabe, Ellie. “Pollinators of strawberries continue to use resources from wildflower strips after strawberry bloom” Cornell Summer Scholar Poster Presentations. Oral Presentation

**References**

Donald Chandler

University of New Hampshire, Department of Biological Sciences

Professor and Interim Department Chair

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Jobriah Anderson

University of New Hampshire, Department of Molecular, Cellular, and Biomedical Sciences

Lab Manager and Teacher Coordinator for Anatomy 507 & 508

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Heather Garb

Cornell University, Department of Entomology

Postdoctoral Researcher

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