

## ZOE GETMAN-PICKERING

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### Education

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Cornell University Ithaca, NY  
Doctoral Candidate  
Advisor: Dr. Jennifer Thaler  
Department of Entomology

Hampshire College Amherst, MA  
Bachelor of Art, May 2013  
Concentration: Evolution in Invasion Ecology

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### Publications and Manuscripts

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Getman-Pickering, Z., ter Horst, C., Magnoli, S., Lau, J. 2018 "Evolution of increased *Medicago polymorpha* size during invasion does not result in increased competitive ability". *Oecologia*

Shelef, O., Hahn, P., Getman-Pickering, Z., Martinez Medina, A. Coming to common ground: ecological concepts in rhizosphere interactions. *Frontiers in Plant Sciences* (in revision)

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### Professional Involvements and Presentations

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**LeafByte**; *Co-creator and Product Manager* Dec. 2017-Present  
Designed and helped build a mobile application for fast and accurate quantification of leaf area and herbivory. Released on iOS in November 2018.

**Entomological Society of America**, Denver, CO; Poster, 2017  
The effect of nutrient addition on tri-trophic interactions between mycorrhizal fungi, plants and herbivores.

**Entomological Society of America**, Denver, CO; Coauthor 2017  
The interplay of mycorrhizal fungi and herbivory on the growth, defense, and root colonization of *Solanum lycopersicum*

**GRC on Plant Herbivore Interactions**; Ventura, CA; Poster 2017  
Mycorrhizal fungi: Friend or Foe? The relationship between competition, herbivory and fungal mutualists

**Cornell Entomology Symposium**, Ithaca NY; Presenter 2016  
Mycorrhizal fungi: Friend or Foe? The relationship between competition, herbivory and fungal mutualists

**International Congress of Entomology**, Orlando, Fl; Presenter 2016  
Mycorrhizal fungi: Friend or Foe? The relationship between competition, herbivory and fungal mutualists

**Cornell Entomology Symposium**, Ithaca NY; Presenter 2015  
Optimal foraging strategy of herbivores feeding on increasingly toxic hosts in the presence of predators

**Ecological Society of America**, Minneapolis, MI; Presenter 2013  
Evolution of increased biomass does not result in increase competitive ability during invasion

**North East Natural History Conference**, Springfield, MA 2013  
Evolution of increased biomass does not result in increase competitive ability during invasion

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### Teaching Assistant

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Applied Statistics, Cornell University Spring 2017  
Insect Ecology, Cornell University Fall 2016

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### Grants

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NSF GRFP 2014-Present  
Griswold Fund-\$700 2017  
Mellon Grant-\$1000 2017  
Mellon Grant-\$1000 2016  
Cornell Sigma Xi-\$600 2016  
Griswold Fund-\$1677 2016  
Justine Salton Memorial Fund-\$830 2013  
Ray and Lorna Coppinger Fund-\$500 2013

#### Travel grants:

Graduate school-\$515, Entomological Society of America Conference 2017  
Rawlins Fund -\$1000, Plant Herbivore Interactions-Gordon Research Conference 2017  
GRC-\$490, Plant Herbivore Interactions-Gordon Research Conference 2017  
Rawlins Fund-\$700, International Congress of Entomology 2016  
Cornell Graduate School-\$360, International Congress of Entomology 2016  
Rawlins Fund-\$600, Ecological Society of America Conference 2015

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### Outreach

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#### Classroom visits and talks to the public:

**Presenter**, LifeLong Oct 2018 | Ithaca, NY  
**Presenter**, New York State Fair Aug 2017|  
Syracuse, NY  
**Presenter**, Cornell Reunion Weekend June 2017 | Ithaca, NY  
**Presenter**, Big Brother Big Sister May 2017| Ithaca, NY  
**Presenter**, Ithaca Montessori School, Kindergarten May 2017| Ithaca, NY  
**Presenter**, Southern Cayuga Central School District, First grade May 2017| Ithaca, NY

**Project Biodiversity** Oct 2018

Worked with Project Biodiversity to present a workshop on Inclusive and Accurate Approaches for Teaching Sex and Gender in Biology for STEM researchers at Cornell.

**GRASSHOPR** Spring 2015-Present  
Developed and taught a set of 4 lessons on insect biology and ecology to each of 11 different 2nd grade classrooms over the course of 4 years.

**Letters to a Pre-Scientist** Sept 2018-Present  
Pen-pal to a 6th grade student in a low income area to demystify science as a field and career.

**Expanding your Horizons** April 2015-present  
Organized and ran (2017 and 2018) and volunteered for (2015 and 2016) and o an insect zoo to give students hands on experience with insects and expose middle school girls to STEM careers.

**Claymation** Oct 2017  
Co-produced a [claymation video](#) with to educate the public on the importance of plant-mycorrhizae interactions.

**Insectapalooza** Oct 2014-2018  
Helped organize and run an one day annual insect fair to share entomology with the surrounding communities.

**Journal of Irreproducible Results**  
Getman-Pickering, Z. 2017 Glycolysis: A poem in the style of The Raven by Edgar Allan Poe. *Journal of Irreproducible Results*.

**I'm a Scientist USA** May 2015  
Competed in an online science communication competition. Spent two weeks answering questions and talking with 8-18 year-old students across the country about science and what it is like to be a scientist. Helped produce [promotional material](#).

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## Extracurricular and Professional Involvements

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**Mental Health Committee; Chair** May 2018-Present | Cornell University, NY  
Started and chaired a committee to improve graduate student mental health and department support for good mental health. Created and analyzed surveys, organized workshops for faculty and students, and compiled a report with recommendations and best practices for the department.

**Jugatae; Member and Vice President** Aug 2014-Present | Cornell University, NY  
Member of Department of Entomology graduate student group. Was Vice President, chaired various committees, and organized many departmental events.

**Diversity Preview Weekend; Member** Aug 2017-April 2017 | Cornell University, NY  
Member of multi-departmental initiative to create a Diversity Preview Weekend to recruit more diverse applicants to Cornell graduate programs. Helped plan events and develop the program.

**Entomology Awards Committee; Member** Fall 2015-Fall 2018 | Cornell University, NY  
Student representative on committee which organizes the nomination of individuals within the department for both internal and national awards.

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## Previous Research Experience

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**Kellogg Biological Station; Lab Technician** June-Nov 2013 | Hickory Corners, MI  
Conducted independent research testing the effects of biocontrols on the rapid evolution of invasive *Lythrum salicaria* with a focus on reduced competitive ability. Censused plant phenology for a project testing the effects of climate change related temperature elevation on the survival and phenology of native and invasive prairie species.

**Kellogg Biological Station; REU Intern** Summer 2012 | Hickory Corners, MI  
Conducted independent research testing the effects of evolution on direct interactions of invasive plants. Assisted with further research projects being conducted by Dr. Jennifer Lau on the effects of global climate change on plant evolution. Presented results to the faculty and staff of KBS.

**Adler Lab at the UMass Amherst; Research Assistant** Spring 2012 | Amherst, MA  
Assessed the impact of the secondary compounds caffeine, gelsemine, and amygdalin in nectar on parasite loads in bumblebees with the project “Effects of *Crythidia* on *Bombus impatiens* pharmacophagy”. Duties included bee caring and handling, inoculation, and dissection as well as colony dissection and parasite load counting.