

KAITLIN M. CHAPMAN

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EDUCATION

Doctor of Philosophy, Entomology (May 2014 - present)

University of Nebraska-Lincoln

Dissertation: Defense signaling responses to the soybean aphid in soybeans expressing antibiosis, antixenosis, and tolerance

Advisors: Dr. Tiffany Heng-Moss and Dr. Joe Louis

Anticipated Graduation Date: August 2018

3.904 GPA

Bachelor of Science in Insect Science (2014)

University of Nebraska-Lincoln

Senior Thesis: Identification of the arthropod complex associated with perennial warm season switchgrass (*Panicum virgatum* L.) and influence of stand age on arthropod diversity and abundance of selected families

3.540 GPA

HONORS AND AWARDS

Scholarship, Ephriam and Veallon Hixson Memorial Fund	2013
Dean's List, University of Nebraska-Lincoln	2013-2015
Fellowship, Milton E. Mohr	2015
President's Prize, Graduate Ten-Minute Paper Competition: P-IE - Host Plant Resistance Entomological Society of America	2015
President's Prize, PhD Ten-Minute Paper Competition: P-IE – Field Crops Entomological Society of America, North Central Branch	2016
Presidential Student Travel Scholarship (\$250) Entomological Society of America, North Central Branch	2016
Myron H. Swenk Fund Travel Grant (\$313.95) Department of Entomology, University of Nebraska-Lincoln	2016

PUBLICATIONS

- Basu S.*, **K. Chapman***, T. Heng-Moss, and J. Louis. Comparison of PAD4 responses in rice and soybean upon feeding by aphids. (In preparation for AoB PLANTS). *Co-first authors.
- Koch, K.G., **K. Chapman**, J. Louis, T. Heng-Moss, and G. Sarath. Plant Tolerance: A Unique Approach to Control Hemipteran Pests. (In review for Frontiers in Plant Science 2016: Special issue-Advances in Plant-Hemipteran Research).

PRESENTATIONS

- Department of Entomology Seminar Series, University of Nebraska-Lincoln
- “Integration of insect resistant genes from Arabidopsis into rice and soybean” 2014
 - “Chewing vs. sucking: plant perception, signaling, and resistance mechanisms against different feeding guilds of insects” 2015
- Student competition, Entomological Society of America national meeting
- “Soybean defense responses to the soybean aphid” 2015
- Student competition, Entomological Society of America-North Central Branch meeting
- “Differential expression of soybean defense genes to the soybean aphid” 2016

TEACHING EXPERIENCE

Undergraduate Teaching Assistant, Insect Biology, University of Nebraska-Lincoln	2012-2014
Graduate Teaching Assistant, Insect Identification, University of Nebraska-Lincoln	2014-present

OUTREACH EXPERIENCE

2012

Sunday with a Scientist, University of Nebraska State Museum at Morrill Hall
"Bees", Dr. Marion Ellis May

2013

Special Education Yankee Hill School, Lincoln, NE
A Bug's World, Omaha Children's Museum May
Nebraska Moth Night, Spring Creek Prairie Audubon Center July
Bug Fest, Department of Entomology, University of Nebraska-Lincoln Aug.

2014

Sunday with a Scientist, University of Nebraska State Museum at Morrill Hall Jan.
"Insects and Other Arthropods", Dr. Tiffany-Heng-Moss
Sunday with a Scientist, University of Nebraska State Museum at Morrill Hall March
"Eight Legged Encounters", Dr. Eileen Hebets
Wild Adventures, Pioneer's Park, Lincoln, NE April
Nebraska Moth Night, Spring Creek Prairie Audubon Center July
Twilight on the Tallgrass, Spring Creek Prairie Audubon Center Sept.
Bug Fest, Department of Entomology, University of Nebraska-Lincoln Oct.

2015

Family Nature Night, Pershing Elementary School, Lincoln, NE Jan.
ZooZeum Day, Lincoln Children's Museum Feb.
Kloefkorn Elementary School, Lincoln, NE Feb.
Kloefkorn Elementary School, Lincoln, NE May
Bruner Club Education Table, Haymarket Farmers' Market, Lincoln, NE June
Archie's Late Night Party, University of Nebraska State Museum at Morrill Hall June
Bug Fest, Department of Entomology, University of Nebraska-Lincoln Sept.
Twilight on the Tallgrass, Spring Creek Prairie Audubon Center Sept.
Nature Palooza, Hardin Hall, University of Nebraska-Lincoln Sept.
Howling Homestead, Homestead National Monument, Beatrice, NE Oct.

2016

Entomology Extravaganza, Department of Entomology, UNL Feb.
Bug Badge, Girl Scouts of the USA, Kloefkorn Elementary School, Lincoln, NE May
Niobrara State Park BioBlitz, Niobrara, NE May
Bruner Club Education Table, Haymarket Farmers' Market, Lincoln, NE May-July
Carl A. Swanson Elementary School, Omaha, NE May
Ruth Staples Child Development Lab, Lincoln, NE May
Bright Lights, Holmes Elementary School, Lincoln, NE June
Pershing Elementary School, Lincoln, NE June

EXTRACURRICULAR AND VOLUNTEER EXPERIENCE

Intern, Omaha's Henry Doorly Zoo and Aquarium Berniece Grewcock Butterfly and Insect Pavilion	2010
Judge, Metropolitan Science and Engineering Fair	2011-2016
Member, Insect Science Club, University of Nebraska-Lincoln	2010-2013
"Insect zoo" caretaker and supervisor, University of Nebraska-Lincoln	2011-2014
President, Insect Science Club, University of Nebraska-Lincoln	2013-2014
Student Ambassador, Department of Entomology, University of Nebraska-Lincoln	2013-2014
Aid, Summer Science Soybean Institute, University of Nebraska-Lincoln Nebraska Soybean Board and United Soybean Board	2014
Education Abroad: Costa Rica, University of Nebraska-Lincoln	2014
Bruner Entomology Club, University of Nebraska-Lincoln	2014-present
Alumni Dinner and Fundraising Committees	2015
Alumni Dinner Linnaean Game Organizer	2015
Outreach Committee Chair	2015-present
Vice President	2016-present
Mentor, Undergraduate exchange students Northwest Agriculture and Forestry University in China	2015
Member, Science Literacy Committee, Department of Entomology, University of Nebraska-Lincoln	2016-present
Member, Linnaean Team, University of Nebraska-Lincoln Entomological Society of America	2016-present

SYMPOSIA AND CONFERENCES ATTENDED

Entomological Society of America North Central Branch meeting, Lincoln, NE	2012
Annual meeting, Minneapolis, MN	2015
North Central Branch meeting, Cleveland, OH	2016
Soybean Researcher Symposium, University of Nebraska-Lincoln	2015
Plant Science Symposium, University of Nebraska-Lincoln	2015

RESEARCH INTERESTS

Host-plant resistance to insects	Transgenic crops
Agricultural pest management	Herbivore-defense genes in plants

SKILLS

Arthropod husbandry	Chlorophyll extraction/quantitation
RNA extraction/isolation and qPCR	Proficient in SAS 9.2