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**EDUCATION**

**Ph.D**., Entomology University of California, Davis. Sept. 2015. Dissertation: Improving integrated pest management of rice water weevil (*Lissorhoptrus oryzophilus* Kuschel) in California Rice. Advisor: Dr. Larry D. Godfrey

**M.S**., Entomology University of California, Davis. June 2013. Advisor: Dr. Larry D. Godfrey

**B.Sc**., Environmental Science, Genetics and Plant Biology, Forestry Minor, University of California, Berkeley. May 2010.

**EMPLOYMENT**

08/2015 – presentPostdoctoral Researcher North Carolina State University

Department of Entomology and Plant Pathology, Plymouth, NC

-emphasis on cotton pest management

07/2010 – 07/2015 Graduate Student Researcher UC Davis

Department of Entomology and Nematology

-emphasis on rice pest management

09/2007 – 05/2010 Undergraduate Research Assistant UC Berkeley

Department of Environmental Science, Policy, and Management

-emphasis on parasitism in frogs and snails in California oak woodlands

**GRANTSMANSHIP**

1. NIFA USDA Postdoctoral Fellowship 2017-2019 $147,000Factoring temperature and drought into *Helicoverpa zea* feeding patterns on Bt cotton $**147,000**
2. Cotton Incorporated. Reevaluation of treatment thresholds in cotton against *Lygus* spp in North Carolina. 2016 (PI: D. Reisig and **M.A. Aghaee**) **$30,000**
3. IR4 Biopesticide Research. Evaluation of *Bacillus thuringiensis* ssp. *galleriae* on rice water weevil (Lissorhoptrus oryzophilus, Kuschel) 2012. (PI: L.D Godfrey and **M.A. Aghaee**). **$25,000**
4. McBeth Memorial Scholarship. Investigating the mechanism of winter flooding as a pest management tool against *Lissohroptrus oryzophilus.* 2011-2013 (PI. **M.A. Aghaee**) **$3000**
5. **Henry A. Jastro Award 2011-2013** Effectiveness of silicon fertilization against rice water weevil damage in rice (PI. **M.A. Aghaee**) **$3000**

**REFEREED PUBLICATIONS**

**Aghaee, M-A.,** and L.D. Godfrey. 2016. Winter flooding of California rice fields reduces rice water weevil (Coleoptera: Curculionidae) larval populations in the spring. Pest Management Science DOI: 10.1002/ps.4507

**Aghaee, M-A**., L. Espino, K. Goding, E. Goldman, and L.D Godfrey. 2016. Effects of Seeding Rates and Rice Water Weevil (Coleoptera: Curculionidae) Density on Damage in Two Medium Grain Varieties of Rice. Journal of Economic Entomology. 109(2): 667-678

**Aghaee, M.,** Olkowski, S., Shelomi, M., Klittich, D., Kwok, R., Maxwell, D., and M, Portilla. 2015. Waiting on the Gene Revolution: Challenges for Adopting GM Crops in the Developing World. Trends in Food Science and Technology. 46(1): 132-136

**Aghaee, M.** and Godfrey, L.D. 2015. Effect of *Bacillus thuringiensis* ssp. *galleriae* on rice water weevil in California rice. Journal of Economic Entomology 1(8): 45-52

**Aghaee, M.** and L.D. Godfrey. 2014. A Century Rice Water Weevil: A History of Research and Management with an Emphasis on the United States. Journal of Integrated Pest Management 5(4): D1-D14

**NON-REFEREED PUBLICATIONS**

**Aghaee, M**-**A**., Carlson, J., Klittich, D., Scampavia, M. and R. Washington Jr. 2016. ESA 2014 Student Debates Management Strategies-Solutions to Grand Challenges:

Neonicotinoids are causing the death of bees essential for pollinating our food crops. The use of neonicotinoids should end. Con position. American Entomologist. 62(2):102-103.

**Aghaee, M.,** Klittich, D., Shapiro, I., and M. Shelomi. 2015. Entomological Society of America student debates 2013: Scientific issues arising from a connected world: Using GMOs to Increase Food-Security in Regions Where the Technology is not Universally Accepted. Con Position. *American Entomologist.* 61(3): 157

**Aghaee, M-A**., book review. Methods for Catching Beetles by Carlos J. Aguilar American Entomologist. 2015. 61 (3): 191-192

Carlson, J., Shelomi, M., **Aghaee**, **M-A.,** and I. Shapiro. 2014. Entomological Society of America Student Debates: Identify, Clarify and Speak Out about the Land-Grant Mission, Organic Agriculture, and Host Plant Resistance Programs. Topic: “What is the best individual solution to the threat of global climate change? Afforestation and Reforestation.” American Entomologist. 60(4): 216-217.

Merwin, A., **Aghaee, M.,** Shapiro, I., and M. Shelomi. 2013. Entomological Society of America Student Debates: Identify, Clarify and Speak Out about the Land-Grant Mission, Organic Agriculture, and Host Plant Resistance Programs. Topic: Is the land grant mission still economically relevant to departments of entomology. Pro Position. *American Entomologist* 59(4):217-218

**TRADE JOURNAL ARTICLES**

Hart, J. 2016. Bollworm problems in North Carolina cotton due to more corn acres Southeast Farm Press

--Quoted on extension presentation regarding plant bug management for North Carolina

**TEACHING HISTORY**

**Co-instructor** and **Course Creator**. Fall 2013-2014. Freshman Seminar: Bugs, Germs, and Steel: A History of Entomology in Warfare**.** Introduction to insect biology through the context of human conflict

**Teaching assistant**. Fall 2013-2014. Scientific Method through Practice.

Course focused on fish and their parasites as way to teach undergraduates about the process of research, experimentation and writing scientific papers.

**Teaching assistant**. Winter 2012. Arthropod Pest Management Course was centered on the identification of insects important to California agriculture and methods of pest management with focus on sustainable tactics

**Guest Lecturer**. Fall 2012. Introduction to Insects

Agricultural entomology and the insecticide arms race between humans and insect pests of crops.

**Guest Lecturer**. Fall 2011. Introduction to Insects

Role of arthropod related themes in comic books and related media and its impacts on public perceptions.

**Teaching assistant/Instructor**. Summer 2008-2016. UC Berkeley Forestry Summer Camp

A one day field course in aquatic entomology and Sierra Nevada aquatic ecosystems with a special on biomonitoring, habitat assessment and insect identification.

**INVITED PRESENTATIONS**

**Aghaee, M.** Oh When the Weevils Come Marching In: Improving management of *Lissorhoptrus oryzophilus* California Rice. Pacific Branch Entomological Society of America Coer d’Alene, ID 2015

**Aghaee, M.** Charge of the Bug Brigade: An Interactive Project on Insects, Disease, and the Crimean War Pacific Branch Entomological Society of America Coer d’Alene, ID 2015

**EXTENSION PRESENTATIONS**

D.D. Reisig and **Aghaee, M.** Tarnished plant bug and recommendations. Cotton Field Day. Upper Coastal Plains Station. Rocky Mount, NC 2016.

**Aghaee, M.,** Braswell, L., and D.D. Reisig**.** Cotton Entomology 2017. Cotton Production Meeting. Edenton, NC 1/31/2017.

**Aghaee, M.,** Braswell, L., and D.D. Reisig**.** Cotton Entomology 2017. Cotton Production Meeting. Elizabethtown, NC 2/7/2017.

**Aghaee, M.,** Braswell, L., and D.D. Reisig**.** Cotton Entomology 2017. Cotton Production Meeting. Greenville, NC 2/9/2017.

**Aghaee, M.,** Braswell, L., and D.D. Reisig**.** Cotton Entomology 2017. Cotton Production Meeting. Rocky Mount, NC 2/27/2017.

**CONTRIBUTED PRESENTATIONS**

**Aghaee, M.** and D.D. Reisig. Reevaluating *Lygus lineolaris* Thresholds in North Carolina Cotton. Oral Presentation. Beltwide Cotton Meeting Dallas, TX 2017

**Aghaee, M-A**, Reisig, D.D., Caprio, M., Cook, D., Green, J., Musser, F., and F. R-Jones. Bract Feeding on Bolls as a Plant Bioassay for Resistance Monitoring in Bt Cotton. Oral Presentation. International Congress of Entomology, Orlando, FL 2016

**Aghaee, M-A**, Reisig, D.D., Caprio, M., Cook, D., Green, J., Musser, F., and F. R-Jones. Characterizing *Helicoverpa zea* Injury to Different Cotton Tissue Types and Different Bt Protein Combinations for Use in IRM Modeling. Oral Presentation. World Cotton Conference Goiânia, Brazil 2016

**Aghaee, M.** and D. D. Reisig. Bract Feeding as an Indicator of In-Field Resistance by *Helicoverpa zea* in Bt Cotton. Poster Presentation. Bayer Research Symposium Durham, NC 2016

**Aghaee, M-A**, Reisig, D.D., Caprio, M., Cook, D., Green, J., Musser, F., and F. R-Jones.

Characterizing the Development and Survival of *Helicoverpa Zea* and Injury to Different Cotton Tissue Types and Different Bt Protein Combinations for Use in IRM Modeling. Oral Presentation. Beltwide Cotton Meeting New Orleans, LA 2015

**Aghaee, M.** and L.D. Godfrey. Brown Marmorated Stinkbug (*Halyomorpha halys*) may pose a threat to California Rice. Oral Presentation. Entomological Society of America Annual Meeting Minneapolis, MN 2015

**Aghaee, M.** and L.D. Godfrey. Brown Marmorated Stinkbug (*Halyomorpha halys*) may post a threat to California Rice. Oral Presentation. Pacific Branch Entomological Society of America Coer d’Alene, ID 2015

**Aghaee, M.** and L.D. Godfrey. Effect of Silicon Augmentation on Rice Water Weevil (*Lissorhoptrus oryzophilus*, Kuschel) in California Rice. Oral Presentation. Entomological Society of America Annual Meeting Portland, OR 2014

**Aghaee, M.** and L.D. Godfrey. Effect of *Bacillus thuringiensis* ssp. *galleriae* on Rice Water Weevil (*Lissorhoptrus oryzophilus*, Kuschel). Oral Presentation. Pacific Branch Entomological Society of America Tuscon, AZ 2014

**Aghaee, M.** and L.D. Godfrey. New IPM strategies for control of Rice water weevil (*Lissorhoptrus oryzophilus* Kuschel). Oral Presentation. 35th Rice Technical Working Group New Orleans, LA 2014

**Aghaee, M.** and L. D. Godfrey. Effects Silicon Augmentation on Rice Water Weevil (*Lissorhoptrus oryzophilus*, Kuschel). Poster Presentation. Rice Field Day Rice Experiment Station Biggs, CA 2014

**Aghaee, M.** and L. D. Godfrey. Effects of *Bacillus thuringiensis* spp. *galleriae* on Rice Water Weevil (*Lissorhoptrus oryzophilus*, Kuschel). Poster Presentation. University of California Cooperative Extension Workshop UC Davis, CA 2014

**Aghaee, M.** and L.D. Godfrey. Mechanisms of Winter Flooding Effects on Rice Water Weevil (*Lissorhoptrus oryzophilus*, Kuschel) survival in California Rice Fields. Oral Presentation. Entomological Society of America Annual Meeting Austin, TX 2013

**Aghaee, M.** and L.D. Godfrey. Effect of *Bacillus thuringiensis* ssp. *galleriae* on Rice Water Weevil (*Lissorhoptrus oryzophilus*, Kuschel). Oral Presentation. Pacific Branch Entomological Society of America Reno, NV 2013

**Aghaee, M.** and L. D. Godfrey. Effects of *Bacillus thuringiensis* serovar *galleriae* on Rice Water Weevil (*Lissorhoptrus oryzophilus*, Kuschel). Poster Presentation. Rice Field Day. Rice Experiment Station Biggs, CA 2013

**Aghaee, M.** and L.D. Godfrey. Effect of Straw Amendment on Rice Water Weevil (*Lissorhoptrus oryzophilus*, Kuschel) Oral Presentation. Entomological Society of America Annual Meeting Knoxville, TN 2012

**Aghaee, M.** and L. D. Godfrey. Effects of *Bacillus thuringiensis* spp. *galleriae* on Rice Water Weevil (*Lissorhoptrus oryzophilus*, Kuschel) Poster Presentation. Rice Field Day. Rice Experiment Station Biggs, CA 2012

**Aghaee, M.** and L.D. Godfrey. Sampling Methods of Lygus bug (*Lygus hesperus*) in Green Bean (*Phaseolus vulgaris*). Oral Presentation. Entomological Society of America Annual Meeting Reno, NV 2011

Godfrey, L.D., R. Long, S. Temple, E. Goldman, and **M. Aghaee**. Refined Management for Western Tarnished Plant Bug in Baby Lima Beans. Poster Presentation. Bean Field Day. University of California, Davis, CA 2011

**AWARDS**

Student and Early Professionals (STEP) Travel Award ICE 2016

$1000 Travel award for participation in the International Congress of Entomology

John Henry Comstock Award- Pacific Branch 2015

Outstanding PhD student

William and Kathleen Golden International Agriculture Fellowship 2014-2015

Fellowship for supporting graduate student research in rice production

ESA Student Debates 1st Place 2014

Entomological Society of America Portland, OR

*Neonicotinoids are causing the death of bees essential for pollinating our food crops. The use of neonicotinoids should end*. Con position

President’s Prize 1st Place 2013

Entomological Society of America Austin TX

ESA Student Debates 1st Place 2013

Entomological Society of America Austin TX

*Using GMOs to Increase Food-Security in Regions Where the Technology is not Universally Accepted. Con Position*

Eugene Cota-Robles Fellowship 2010-2012

Fellowship for students demonstrating high potential and promise, with an interest in an academic career in teaching and research.

Bill and Jane Vegetation Management Award 2010

$1000 university scholarship for investigating the effects of weed management on overwintering rice water weevils

**ACTIVITIES**

NC State Postdoctoral Association Social Media 2016-2017

Entomology Graduate Student Association- *Secretary/GSA representative* 2013-2014

UC Davis Graduate Student Recruitment Coordinator 2012-2014

UC Davis ESA Debate Team 2011-2014

(*Captain 2013-2014*)

UC Davis Linnean Games Team 2012-2014

*(Captain* *2014)*

**PROFESSIONAL AFFILIATIONS**

Entomological Society of America (2011-present)  
-Pacific Branch member (2010- 2015)

-Southeastern Branch member (2015-present)

Berkeley Model United Nations Alumni Association (2010 – present)

Cal Forestry Alumni Association (2009- present)

**VOLUNTEERING**

North Carolina Science Fair 2015- Judge

North Carolina 4-H State Presentation Competition 2016- Judge

BugFest Volunteer 2016- NCSU Entomology booth

STEM Mentor East Wake High School Fall 2016

Darwin Day Volunteer 2017- NCSU Entomology booth