

## **Ta-I Huang**

Graduate Research Assistant, Ph.D. Candidate  
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### **Education**

- 2008 ~ present Pursuing Ph.D. in Department of Entomology, University of Georgia, Athens  
(Anticipate to graduate in May/2012)
- 2006 ~ 2008 M.S. in Entomology and Nematology Department, University of Florida,  
Gainesville
- 1999 ~ 2003 B.S. in Department of Forestry and Nature Conservation, Chinese Culture  
University, Taipei, Taiwan

### **Professional Research**

My doctoral research focuses on the ecology and behavior of stink bugs (Hemiptera: Pentatomidae) in cotton agroecosystem. Specifically, I am studying the stink bug population dynamics and intercrop movement in southern Georgia row crop system by using immunomarking techniques. I also evaluate the movement and feeding behavior of two important stink bug species, *Nezara viridula* and *Euschistus servus*, on individual cotton plant by digital video based technology. The overall goal is to develop an ecological based IPM practice for stink bug control.

### **Area of Interest**

- Insect-plant interaction
- Behavior ecology, population ecology, chemical ecology
- Host-parasitoid interaction & Biological control

### **Professional and Honor Society Membership**

- Entomological Society of America
- Georgia Entomological Society
- Florida Entomologist
- The Coleopterists Society

### **Research Experience** (8+ years)

- 2010 ~ present Graduate Research Assistant, University of Georgia, Tifton campus**
- Conducted field research to investigate stink bug intercrop movement in Georgia farmscape by using immune-marking technique (equipment

including: field scouting skill, protein markers, ELISA assay).

- Conducted field research to survey stink bug population dynamics in cotton-peanut- soybean agroecosystem (equipment including: field scouting skill, GIS spatial mapping software).
- Participation in other research projects including assessment of commercial insecticide efficacy in boll worm trial and whitefly trial. Planting date project in stink bug and thrips trials.

**2008 ~ 2010**

**Graduate Research Assistant, University of Georgia, Athens campus**

- Conducted lab research to study stink bug feeding behavior and movement on individual cotton plant (equipment including: environmental growth chamber, digital cameras and time lapse video recording system).

**2006 ~ 2008**

**Graduate Research Assistant, University of Florida, Entomology & Nematology Department, Gainesville**

- Conducted 4 cultivars of bermudagrass and 17 cultivars of zoysiagrass genotypic resistance to the hunting billbug.
- Conducted cultural control, development time, and population dynamics of turfgrass pest billbug species on 4 golf courses in Florida.

**2006 ~ 2008**

**Research Associate, Florida State Collection of Arthropods, Gainesville**

- Participated statewide insect collection for Florida natural history museum, mainly focused on Coleoptera.

**2003 ~2004**

**Research Technician, Biodiversity Center, Yangmingshan National Park, Taipei, Taiwan**

- Conducted both field and lab research of various insect diversity survey in the Yangmingshan National Park.
- Arranged insect collection for public display.

**Teaching Experience**

Graduate Teaching Assistant, Dept. of Entomology, UGA Tifton campus. Aug 2010 ~ Dec 2010

**ENTO 4000/6000 General Entomology**

- Helped students with insect identification and microscope operation
- Lab arrangement and quiz grading
- Field trip collecting arrangement

**Honors and Awards**

- C.P. & Lynn Steinmetz Assistantship, UF 2006, 2007
- Runner up, Ph.D student paper competition, 75th Annual Meeting of the Georgia Entomological Society. 7 April, 2011

### **Research Publications**

Huang, T., R. Srinivasan, and M. D. Toews. 2012. Quantifying movement patterns of stink bugs (Hemiptera: Pentatomidae) by immunomarking techniques and potential impacts on cotton agroecosystem. *Environmental Entomology* (In preparation).

Huang, T. and M. D. Toews. 2012. Population structure and dynamics of stink bugs (Hemiptera: Pentatomidae) in Georgia farmscape containing cotton, peanut, and soybean. *Environmental Entomology* (In preparation).

Huang, T. and M. D. Toews. 2011. Feeding Preference and Movement of *Nezara viridula* (L.) and *Euschistus servus* (Say) (Hemiptera: Pentatomidae) on Individual Cotton Plants. *Journal of Economic Entomology* (submitted).

Huang, T., O.Kostromytska, K. E. Kenworthy and E. A. Buss. 2011. Genotype resistance of bermudagrass and zoysiagrass to *Sphenophorus venatus vestitus*. *Florida Entomologist* (In press).

Buss, E.A., and T. Huang. 2009. Seasonality, development and cultural control of hunting billbug. *Golf Course Management* 77 (10): 90-98.

Huang, T., and E.A. Buss. 2009. Billbug (Coleoptera: Curculionidae) species composition, abundance, seasonal activity, and development time in Florida. *Journal of Economic Entomology* 102 (1): 309-314.

### **Research Presentations**

Huang, T. and M. D. Toews. 2011. Intercrop movement of the green stink bugs in Georgia. 59th Annual Meeting of the Entomological Society of America, November 13-16, Reno, NV.

Huang, T. and M. D. Toews. 2011. Intercrop movement of the green stink bug, *Acrosternum Hilare*, in Georgia. 75th Annual Meeting of the Georgia Entomological Society, 7 April, Lake Blackshear Resort, Cordele, GA.

Huang, T. and M. D. Toews. 2010. Selection of cotton feeding sites by the southern green stink bug. 84th Annual Meeting of the Southeastern Branch of the Entomological Society of America. 8 March, Atlanta, GA.

Huang, T. and E. A. Buss. 2009. Billbug (Coleoptera: Curculionidae) seasonal phenology and management in Florida. 92nd Annual Meeting of the Florida Entomological Society of America. July 26-29, Fort Myers, FL (presented by Eileen Buss).

Huang, T. and E. A. Buss. 2007. Billbug seasonal phenology and management. Southeast Pest Management Conference, May, Gainesville, FL.

Huang, T. and E. A. Buss. 2006. Billbug integrated pest management on Florida Turfgrasses. 54th Annual Meeting of the Entomological Society of America, December 10-13, Indianapolis, IN.

### **Extension Presentations**

Huang, T. I. and Toews, M.D. 2010. Movement of stink bugs across farmscape. SEREC Field Day, Midville, GA, Aug. 18.

Huang, T. 2007. Billbug integrated pest management on Florida turfgrass. University of Florida Field Day, IFAS Extension, July 2007, Gainesville, FL.

Huang, T. 2006. Current research of Billbug on Florida Turfgrass. University of Florida Field Day, IFAS Extension, July 2006, Gainesville, FL.

### **References**

Dr. Michael D. Toews (Ph.D Advisor)  
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Dr. Eileen A. Buss (M.S. Advisor)  
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Dr. John R. Ruberson (Ph.D Committee member)  
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