

## **Jessica A. Hartshorn**

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### **Research Interests**

Forest entomology, insect-plant interactions, parasitoid and predator-prey interactions, insect ecology

### **Education**

Southern Illinois University – Carbondale, IL  
B.S. Zoology, Chemistry minor, May 2010, *Cum Laude*

University of Arkansas – Fayetteville, AR  
M.S. Entomology, anticipated May 2012  
Thesis: Biology and interactions of Arkansas *Sirex* with predators, nematodes and symbiotic fungi

### **Experience**

Graduate Assistant, University of Arkansas, May 2010 – May 2012. Designed experiments to test interactions between native Arkansas *Sirex* and their natural enemies.

Undergraduate Assistant, Southern Illinois University, May 2009 – May 2010. Performed a variety of lab and field duties including various sampling techniques of freshwater macroinvertebrates in riparian streams of the Konza Prairie LTER. Lab duties included separating and identifying macroinvertebrates obtained in sampling.

Field Technician, Southern Illinois University, August 2009 – May 2010. Planted rhizomes of Giant Cane (*Arundinaria gigantea*) to establish a nursery; extracted soil cores for analysis of nutrients.

Field Technician, Carey Institute of Ecosystem Studies, May 2008 – August 2008. Performed studies on population densities of the Gypsy Moth and their predators including white-footed and other small mammals. Learned how to identify many small mammals by scat and tracks.

### **Teaching Experience**

Teaching Assistant, ENTO 1023 – Insects and People with Dr. Max Meisch – Spring 2011

### **Outreach Events and Activities**

Fayetteville, AR Farmers Market, 2010 - 2012  
Insect Festival – Insect Theater, October 2010  
Linnaean Games – Entomological Society of America, Southeast Branch Meeting, March 2011  
Linnaean Games, Debate Team – Entomological Society of America, November 2011  
Bentonville, AR Middle School Academic Night, February 2011  
Bentonville, AR Library, Mini Insect Festival, February 2011  
Ozark Natural Science Center, Girls Pursuing Science Camp, July 2011  
Botanical Garden of the Ozarks, Youth Camp, August 2011

### **Professional Organizations and Appointments**

Isley-Baerg Entomology Club, Outreach Coordinator and Secretary, 2011-2012  
Entomological Society of America  
Gamma Sigma Delta, Honor Society of Agriculture

## Other Training

Insect Pathology, University of Illinois, June 2010

Ethics in Research Seminar Series, University of Arkansas, November 2011

Sustainability of Renewable Resources, Universität Graz, Austria, July 2011

## Awards

Richard S. Locke Endowment Scholarship, University of Arkansas, March 2011

Travel Grant – Graduate School, University of Arkansas, March 2011

Travel Grant, University of Arkansas, December 2010

NSF Green Scholarship, Southern Illinois University, August 2009 – May 2010

Undergraduate Assistantship, Southern Illinois University, August 2009 – May 2010

William Hill Scholarship, Southern Illinois University, May 2009

SMART Grant, Southern Illinois University, August 2007 – May 2010

Dean's List, Southern Illinois University, August 2007 – May 2008

President's List, Miami University (OH), August 2006 – May 2007

## Publications

Stephen F.M., Galligan, L.D., **Hartshorn, J.A.**, Keeler, D.M., Lynn-Miller, A. and D.C. Steinkraus. Arkansas *Sirex*: biology, phenology and natural enemies. USDA Interagency Forum on Invasive Species. Annapolis, MD. January 2011. Abstract.

## Presentations

Galligan, L.D., Keeler, D.M., Lynn-Miller, A., Stephen, F.M. and **J.A. Hartshorn**. In pursuit of natural history of native siricids and their natural enemies. South Forest Insect Work Conf. Wilmington, NC. July 2010.

**Hartshorn, J.A.**, Lynn-Miller, A., Galligan, L.D. and FM Stephen. Biology of native Siricidae and their natural enemies. Arkansas Entomological Society. Fayetteville, AR. October 2010. Poster.

**Hartshorn, J.A.**, Lynn-Miller, A., Galligan, L.D. and F.M. Stephen. Oviposition behavior of Arkansas Siricidae (*Sirex* species) in the presence and absence of potential predators. Entomological Society of America, Southeast Branch San Juan, Puerto Rico. March 2011. Poster.

**Hartshorn, J.A.**, Lynn-Miller, A.J., Galligan, L.D., and F.M. Stephen. Biology and oviposition patterns of Arkansas *Sirex*. North American Forest Insect Work Conference. Portland, OR. May 2011. Poster.

Galligan, L.D., **Hartshorn, J.A.**, Keeler, D.M., Lynn-Miller, A.J. and F.M. Stephen. Biology, phenology and natural enemies of Arkansas *Sirex*. North American Forest Insect Work Conference. Portland, OR. May 2011. Poster.

Lynn-Miller, A.J., Galligan, L.D., **Hartshorn, J.A.** and F.M. Stephen. *Sirex nigricornis* oviposition: response to bark thickness. North American Forest Insect Work Conference. Portland, OR. May 2011. Poster.

**Hartshorn, J.A.** and F.M. Stephen. Effects of tree condition on oviposition behavior of *Sirex nigricornis* (Hymenoptera: Siricidae). Entomological Society of America. Reno, NV. November 2011.

*References available upon request*