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Education

Degree Program: Masters of Science, Entomology, University of Arkansas

Expected graduation date: Spring 2012, GPA: 3.812, Hours completed: 39

B.S. 2008, Entomology, University of Wisconsin – Madison

Experience

Graduate Research Assistant, University of Arkansas. Spring 2010 – present.

- Investigating the effects that forest disturbances and associated organisms have on the oviposition behavior and survivorship of *Sirex* woodwasps native to Arkansas.
- Investigating complex interactions among native woodwasps, bark beetles and their associated fungi.
- Formulated index for the relationship between Arkansas *Sirex* pronotal width, body size, ovipositor length and fecundity.
- Isolating and culturing fungi from insects and wood, isolating and identifying nematodes.

Entomology Internship, University of Wisconsin – Madison. 2009.

- Internship for post doc studying the effects of root feeding weevils on northern hardwood ecosystems and the incidence of Lyme disease in areas of red pine pocket mortality.
- Collaborated with the USFS on insect sampling in relation to plant biomass and nutrient cycling.

Undergraduate Research Assistant, University of Wisconsin – Madison. Fall 2007 – summer 2008.

- Located aberration in significant ORP-4 sterol coding region of *Aedes aegypti* mosquito.
- Cloned and analyzed *A. aegypti* genes: created primers, amplified genes, amended target sequence with Kanamycin resistance and inoculated it into bacteria for selection, and analyzed target sequence at different life stages.

Publications

Fu, Q., A. Lynn-Miller, and Q. Lan. 2011. Characterization of the oxysterol-binding protein gene family in the yellow fever mosquito, *Aedes aegypti*. *Insect Molecular Biology*. 20: 541–552.

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

Manuscripts in Review

Petty, B., A. Tripodi, A. Lynn-Miller, J. Hartshorn, and K. Durden. Organic agriculture will solve projected food and water limitations of the American society. Submitted to *American Entomologist*, January 2012.

Johnson, D. and A Lynn-Miller. Brown marmorated stink bug: a potential pest of Arkansas fruit and vegetables. (Fact Sheet).Submitted to University of Arkansas Division of Agriculture Cooperative Extension, October 2011.

Invited Presentations

Lynn-Miller, A. J. Hartshorn, K. Durden, A. Tripodi, and B. Petty. 2011. Pro Team – Organic agriculture will solve projected food and water limitations of the American society. Entomological Society of America, Annual Meeting. Reno, NV.

Presentations

Lynn-Miller, A.J.W., L.D. Galligan, and F.M. Stephen. 2012. Oviposition response of *Sirex nigricornis* to *Ips* colonized bolts. USDA Interagency Forum on Invasive Species. Annapolis, MD. (Poster).

Lynn-Miller, A.J.W. and F.M. Stephen.2011. Factors affecting realized fecundity and offspring fitness of Arkansas *Sirex*. Entomological Society of America, Annual Meeting. Reno, NV.

- Lynn-Miller, A.J., L.D. Galligan, J.A. Hartshorn, and F.M. Stephen. 2011. *Sirex nigricornis* oviposition: response to bark thickness. North American Forest Insect Work Conference. Portland, OR. (Poster).
- Hartshorn, J.A., A.J. Lynn-Miller, L.D. Galligan, and F.M. Stephen. 2011. Biology and oviposition patterns of Arkansas *Sirex*. North American Forest Insect Work Conference. Portland, OR. (Poster).
- Galligan, L.D., J.A. Hartshorn, D.M. Keeler, A.J. Lynn-Miller, and F.M. Stephen. 2011. Biology, phenology and natural enemies of Arkansas *Sirex*. North American Forest Insect Work Conference. Portland, OR. (Poster).
- Stephen, F.M., L.D. Galligan, J.A. Hartshorn, D.M. Keeler, A.J.W. Lynn-Miller, and D.C. Steinkraus. 2011. Arkansas *Sirex*: biology, phenology and natural enemies. USDA Interagency Forum on Invasive Species. Annapolis, MD. (Poster).
- Hartshorn, J.A., A.J.W. Lynn-Miller, L.D. Galligan, and F.M. Stephen. 2011. 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. (Poster).
- Keeler, D.M., L.D. Galligan, A.J.W. Lynn-Miller, D.C. Steinkraus, and F.M. Stephen. 2010. Phenology, diversity, and distribution of Arkansas Siricidae. East Texas Forest Entomology Conference. Nacogdoches, TX.
- Galligan, L.D., D.M. Keeler, A.J.W. Lynn-Miller, K. Dodds, F.M. Stephen. 2010. In pursuit of natural history and natural enemies of Arkansas Siricidae. Southern Forest Insect Work Conference. Wilmington, NC.
- Hartshorn, J.A., A.J.W. Lynn-Miller, L.D. Galligan, and F.M. Stephen. 2010. Biology of native Siricidae and their natural enemies. Arkansas Entomological Society Meeting. Fayetteville, AR. (Poster).

Professional Training

- Responsible Conduct of Research. University of Arkansas Ethics Seminar. 2010.
- Insect Pathology Short Course. Illinois Natural History Survey, University of Illinois, Urbana-Champaign. June 2010. Taught by Leellen Solter, Larry Lacey and Richard Humber.

Scholarships and Grants

- 2010, 2011 Travel Grant. University of Arkansas, Graduate School and Department of Entomology (\$660).
- 2011 Lloyd and Ruby Warren Scholarship. University of Arkansas, Department of Entomology (\$750).

Professional Affiliations

- Entomological Society of America. 2009 – present.
- Isely-Baerg Entomology Club (Treasurer). 2010 – present.

Teams

- Debate (Captain). Department of Entomology, University of Arkansas. 2011.
- Won debate with the pro argument that “Organic agriculture will solve projected food and water limitations of the American society.”

Outreach, Service, and Committees

- Distinguished Alumni Award Committee. Department of Entomology, University of Arkansas. 2010 – 2011 (Chair, 2011).

- Committee sends out call for nominations, selects award winner, organizes department seminar given by award winner, organizes social for award winner, and presents award winner with plaque.

Entomology presentation at First School. Fayetteville, AR. August 2011.

- Short presentation to elementary school students on general insect morphology, interesting insect factoids and the life history of red oak borer.
- Answered general questions about morphology, taxonomy, biology, and physiology of insects.
- Displayed and answered questions about red oak borer life stages, damage and mortality factors.

Entomology presentation at Ozark Natural Science Center. Huntsville, AR. June 2011.

- Brainstormed with camp counselors about entomology activities to utilize during summer camps.
- Identified forest insects, their galleries, emergence holes and described their biology and ecology.

Block Street Block Party: Insects of Arkansas. Fayetteville, AR. May 2011.

- Provided educational material on common and pestiferous insects in Arkansas.
- Answered questions regarding Arkansas arthropods.
- Displayed *Sirex* woodwasp adults, larvae and colonized host material and explained the general biology and ecology of the wasp.

Mini Insect Festival at public library. Bentonville, AR. February 2011.

- Used games to introduced and educated children about insects.
- Answered general questions about arthropod displays.

11th Arkansas Insect Festival. Fayetteville, AR. October 2010.

- Acted in informational play delivered to hundreds of children.
- Answered questions about forest insect and trap displays.
- Described the biology and ecology of red oak borer and *Sirex* woodwasps on display.

Coordinator for poster presentations. Southern Forest Insect Work Conference. Wilmington, NC. July 2010.

- Received submissions and answered questions regarding student poster competition.
- Organized, set up and broke down poster displays.

Farmer's Market: Arthropod pests of local crops, gardens, and households. Fayetteville, AR. July 2010, August 2011.

- Provided leaflets and educational material on local crop, garden and household arthropod pests.
- Answered questions regarding local crop, garden and household arthropod pests.
- Displayed insect collections and answered questions about insect biology and taxonomy.

Entomology presentation at The New School. Fayetteville, AR. June 2010.

- Short presentations to middle school classes on general insect morphology and interesting factoids.
- Answered general questions about morphology, taxonomy and biology of insects.
- Answered questions regarding displays of native and exotic insects.

References available upon request