

Jake M. Farnum

2601 N YOUNG AVE • FAYETTEVILLE, AR 72704
PHONE 479-225-7960 • E-MAIL JAKEFARNUM@GMAIL.COM

Education

University of Arkansas – Fayetteville, AR 01/2008 – present

Master of Science, GPA 3.85

Major: Entomology

Research Thesis: Distribution of *Pseudacteon* spp. (Diptera: Phoridae) in Arkansas and the impact of methoprene and pyriproxyfen on *Pseudacteon tricuspis*, a parasitoid of the red imported fire ant, *Solenopsis invicta* (Hymenoptera: Formicidae).

Texas Tech University – Lubbock, TX 09/1997 – 12/2000

Bachelor of Science, *cum laude*, Fall 2000

Major: Environmental Conservation of Natural Resources with a specialization in land management

Minor: Biology

Employment

University of Arkansas Cooperative Extension – Fayetteville, AR 06/2007 – 12/2007

Seasonal Agriculture Technician – Department of Entomology

- Performed field and laboratory work in conjunction with Cooperative Extension Service with fly control using parasitic wasp species. Educated students of 4-H through outreach programs.
- Immediate Supervisor: Kelly Loftin, Ph.D. kloftin@uaex.edu (479) 575-3462

The Institute for Family Enrichment – Hilo, HI 08/2006 – 04/2007

Skills Trainer – Hawaii DOE

- Provided support to a middle school age youth with autism in school and social settings. Addressed life skills, social engagement, behavior modification, and independent thinking techniques.
- Immediate Supervisor: Susanne Paleka spaleka@tiffe.org (808) 961-5166

The ARC of Hilo – Hilo, HI 05/2005 – 07/2006

Direct Support Worker – Adult Day Health

- Contributed as a member of a 6-staff team working with over forty adults with developmental disabilities. Provided, monitored, documented, and assessed individualized skills trainings. Led outings, planned activities, reported progress, and assured participant safety and hygiene. Drove 12 passenger van equipped with wheelchair lift.
- Immediate Supervisor: Vicki Linter vlinter@hiloarc.org (808) 935-8535 x203

Tyler Independent School District – Tyler, TX 10/2004 – 04/2005

Substitute Teacher – Elementary/Intermediate/Camp Tyler Outdoor School

- Led lessons, initiated discussions with students, and enforced appropriate classroom behaviors.
- Immediate Supervisor: Maxine Marshall maxine.marshall@tylerisd.org (903) 262-1000

U.S. Peace Corps – Malawi, Africa 02/2001 – 02/2004

Parks & Wildlife Extension Volunteer

- Collaborated with villagers on ways to conserve their natural resources through improved agriculture techniques, livestock husbandry, tree nursery establishment, and HIV/AIDS education.
- Immediate Supervisor: Darlene Foote dfoote@gmail.com (977) 1-98411-77473

Texas Tech University – Lubbock, TX 05/2000 – 12/2000

Entomology Laboratory Assistant

- Conducted trials studying the effects of biological control agents on fire ant colonies. Processed a fungal pesticide (*Beauveria bassiana*) in a laboratory setting, and later collected data in the field. Communicated with graduate students and professors in response to data analysis and research modifications.
- Immediate Supervisor: Harlan Thorvilson, Ph.D. harlan.thorvilson@ttu.edu (806) 742-2764

Affiliations

Member, Entomological Society of America, 2008 – present
Member, Arkansas Entomological Society, 2007 – present
Member, Isely-Baerg Entomology Club, University of Arkansas, 2007 – present
Vice President, African Students Organization, University of Arkansas, 2008 – 2009

Certifications

Restricted Use Pesticide Applicator, Arkansas State Plant Board, 2009 – present

Posters

Hopkins, J.D., K.M. Loftin, A.M. Callcott, G. Alexander, D. Petty, R. Corder, J.M. Farnum, and J.P. Reed. Efficacy of new candidate insecticides as quarantine treatments on commercial grass sod. 2009 Imported Fire Ant Conference, Oklahoma City, OK.

Loftin, K.M., J. Pennington, S. Brazil, J.M. Farnum, T. McKay, D. Steelman, A. Szalanski, K. VanDevender, W. Watson, and S. Willard. 2008. Fly control for dairies. Tri-county Dairy Conference, Bee Branch, AR.

Loftin, K.M., J. Hopkins, D. Petty, J.M. Farnum, J. Gavin, R. Herring, J. Clemons, A. Simpson, M. McCarter, and E. Brown. 2008. Current status of Arkansas' *Pseudacteon tricuspis* and *Pseudacteon curvatus* releases against *Solenopsis invicta*. 2008 Imported Fire Ant Conference, Charleston, SC.

Loftin, K.M., S. Brazil, T. McKay, J.M. Farnum, W. Watson, J. Edwards, D. Steelman, A. Szalanski, J. Pennington, K. VanDevender, and S. Willard. 2008. House fly (*Musca domestica*) parasitism following sustained releases of Pteromalid wasps in southern dairies. Organic Dairy Field Day 2008, Farmington, AR.

Brazil, S., K.M. Loftin, J.M. Farnum, J. Pennington, T. McKay, D. Steelman, A. Szalanski, K. VanDevender, W. Watson, and S. Willard. 2007. Parasitism of house flies following parasitic wasp releases. 2007 Arkansas Entomological Society Annual Meeting, Hot Springs, AR.

Brazil, S., K.M. Loftin, J. Pennington, J.M. Farnum, and T. McKay. 2007. Control of flies on organic dairies using parasitic wasps. Organic Dairy Field Day 2007, Beebe, AR.

Presentations

Farnum, J.M., and K.M. Loftin. Impact of methoprene and pyriproxyfen on *Pseudacteon tricuspis* (Diptera: Phoridae), a parasitoid of the red imported fire ant (Hymenoptera: Formicidae). Oral presentation at Entomological Society of America. December 13-16, 2009. Indianapolis, Indiana.

Farnum, J.M., and K.M. Loftin. Phorid fly distribution in Arkansas. Oral presentation at Arkansas Entomological Society Meeting. October 16, 2009. Little Rock, Arkansas.

Media

“Fly Integrated Pest Management on Dairies”, University of Arkansas Cooperative Extension Service, informative video.

Awards

Fall 2009 – John S. Heiss Scholarship

September 2009 – Travel Grant, University of Arkansas, Graduate School and Department of Entomology. (\$660)

Volunteer Service & Outreach

Ag Discovery Camp – Camp for teenagers interested in agricultural careers.

- July 15, 2008 - Demonstrated fire ant evaluations for phorid fly release and explained use of GPS to sixteen 13-17 year olds.

Arkansas 4H Judge

- June 2008 - Pope County Entomology Talks
- June 9, 2009 - Howard County Insect Collections

Northwest Arkansas Emergency Preparedness Fair – Answered questions regarding locally found insects and arthropods that could pose an emergency: brown recluse, black widow, fire ants, etc.

- September 12, 2009

Fayetteville Farmer’s Market – Answered questions from public regarding insects.

- August 16, 2008
- May 16, 2009
- June 13, 2009

Girl Scouts

- March 29, 2008 – Spoke about butterflies and brought live insects to a group of 10 7-9 year olds.
- May 14, 2009 – Spoke about malaria and mosquitoes to a group of 20 5-13 year olds.

Insect Festival – University of Arkansas sponsored festival highlighting insects.

- October 2008 – Answered questions and exhibited live insects at the insect zoo to hundreds of school age children and parents.

Spring Fest- Answered questions and exhibited live and pinned insects to public.

- April 2008