

# Jake M. Farnum

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## Education

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

Master of Science, GPA 3.8

Major: Entomology

Research Thesis: The impact of insect growth regulators used for fire ant control on phorid fly species.  
Expansion and distribution of phorid flies in Arkansas.

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: Dr. Kelly Loftin (479) 575-3462

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 (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: Peter Jensen (011) 265-175-7157

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 (mortality, soil temperature, mound size, dissemination of pellets) in the field. Communicated with graduate students and professors in response to data analysis and research modifications.
- Immediate Supervisor: Dr. Harlan Thorvilson (806) 742-2838

## 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

## **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 tricuspidis* 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.

## **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 16 13-17 year olds.

Arkansas 4H Judge

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

Fayetteville Farmer's Market – Answered questions regarding insect pests, displayed common insects of Arkansas, interacted with children using microscope.

- 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 over 100 people of Northwest Arkansas.

- April 2008