

Jason Michael Meyers

Curriculum Vita

Address Information

Dept. of Entomology, Center for Urban and Structural Entomology, Texas A&M University,
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EDUCATION

TEXAS A&M UNIVERSITY, COLLEGE STATION, TX

Doctor of Philosophy, Entomology major, Urban and Structural Pest Management:
expected graduation May, 2008.

Major Advisor: Dr. Roger E. Gold

Current GPA: 3.79

Dissertation title: Morphological and biological assessment of an exotic pest ant,
Paratrechina sp. nr. *pubens* (Hymenoptera: Formicidae), in Texas

UNIVERSITY OF ARKANSAS, FAYETTEVILLE, AR

Master of Science, Entomology major, Insect Pathology emphasis: Graduated
December, 2004.

Major Advisor: Dr. Donald C. Steinkraus

GPA: 3.50

Thesis title: Interactions of *Beauveria bassiana* with red oak borer (Cerambycidae:
Coleoptera) and northern red oaks, *Quercus rubra*, in northwest Arkansas

SOUTHWEST MISSOURI STATE UNIVERSITY, SPRINGFIELD, MO

B.S., Wildlife Conservation and Management: Graduated December, 2002.

Work History and Experience

TEXAS A&M UNIVERSITY, DEPARTMENT OF ENTOMOLOGY

*Graduate Research and Teaching Assistant, Urban and Structural Entomology
Lab, 2005-present*

- Analyzed morphometrics of *Paratrechina* sp. nr. *pubens* for identification and comparison to other *Paratrechina* spp.
- Surveyed for *P.* sp. nr. *pubens* distribution in various Texas cities.
- Evaluated insecticides in laboratory and field for *P.* sp. nr. *pubens* control.
- Evaluated various house and field treatments against *P.* sp. nr. *pubens* infestations.
- Assisted installation of above-ground termite baiting units for proof-of-concept.
- Surveyed for termites using field-monitoring stations surrounding apartment, homes, and trees.
- Conducted phylogenetic analyses of Palearctic *Reticulitermes* spp.
- Collected bedbugs for phylogenetic analyses and laboratory colonies.

- Assessed knowledge of local (Brazos Valley) pest control operators regarding bedbug infestations.
- Conducted survey and experimental treatment of apartment-dwelling roaches.
- Teaching assistant for Insects in Human Society (2005-current).
- Teaching assistant for Forensic Entomology Lab (2005).
- Teaching assistant for Medical Entomology Lab (2006).

UNIVERSITY OF ARKANSAS, DEPARTMENT OF ENTOMOLOGY

Graduate Research Assistant, Insect Pathology Lab, 2003-2004

- Conducted lab bioassays with entomopathogenic fungi against red oak borer.
- Surveyed natural enemies of red oak borer in oak trees using chain saw, hydraulic wood splitter, and drawknives.
- Analyzed individual trees for red oak borer population estimation pre-felling (Rapid Estimation Procedure).
- Identified and cultured entomopathogenic fungi from red oak borer.
- Analyzed DNA of *Beauveria bassiana* isolated from red oak borer.
- Conducted field study on efficacy of *B. bassiana* for red oak borer control.
- Assisted in sampling cotton aphids for infection by *Neozygites fresenii*.

SOUTHWEST MISSOURI STATE UNIVERSITY, DEPARTMENT OF BIOLOGY

Behavior Study Assistant, April 2002.

- Participated in field anti-predator behavioral experiment of Southern Red-backed Salamander (C.R. Hickman *et al.* Unpublished data).
- Surveyed for salamanders and collected data on size, location, temperature, etc.
- Helped determine response of salamanders to stimuli (predator, non-predator, blank).

Awards and Scholarships

- 2003** Masters Student Travel Grant Award, University of Arkansas Graduate School, ESA Annual Meeting, Cincinnati, OH. For poster presentation.
- 2004** Dwight Isely Outstanding Masters Student Award, University of Arkansas, Department of Entomology.
- Masters Student Travel Grant Award, University of Arkansas Graduate School, ESA Annual Meeting, Salt Lake City, UT. For paper presentation.
- 2005** Clayton Wright Memorial Endowed Scholarship. Urban Entomology. TAMU.
- Office of Graduate Studies Scholarship. Teaching Assistant. TAMU.
- 2006** Robert W. Jenkins, Sr. Memorial Endowed Scholarship. Urban Entomology. TAMU.

Orkin Research Assistantship. Urban Entomology. TAMU.

Pi Chi Omega Scholarship. Urban Entomology.

Clay Stroope Memorial Endowed Scholarship. Urban Entomology. TAMU.

Bill and Casey Clark Endowed Scholarship. Urban Entomology. TAMU.

Alice Jean and George E. Novy Memorial Endowed Scholarship. Urban Entomology. TAMU.

Coastal Bend Scholarship. Urban Entomology. TAMU.

Office of Graduate Studies Scholarship. Teaching Assistant. TAMU.

2007 Robert W. Jenkins, Sr. Memorial Endowed Scholarship. Urban Entomology. TAMU.

Jim & Marilyn Ivey Memorial Scholarship. Urban Entomology. TAMU.

Donor Scholarship. Urban Entomology. TAMU.

Professional Memberships

- UA Entomology Debate Team, 2003-2004-member
- UA Entomology Club, 2003-2004-Vice President
- Entomological Society of America, 2003-current-member
 - Moderator for Urban Entomology Ten-minute Paper, Section Fb. Ft. Lauderdale, FL 2005.
- Pi Chi Omega, 2005-current-member

Research Grants

2005 R.E. Gold (P.I.) and **J.M. Meyers**. Laboratory evaluation of liquid ant bait, Dinotefuran, against an unidentified species of *Paratrechina*. \$6,000. *Granting Agency*: Whitmire.

2006 **J.M. Meyers** and R.E. Gold (P.I.). Field efficacy of Termidor SC (Fipronil 0.06%), Phantom SC (chlorfenapyr 0.5%), and granular bait for *Paratrechina* sp. nr. *pubens* when applied inside/out with present label usage and Termidor expanded usage. \$8,000. *Granting Agency*: BASF.

J.M. Meyers (P.I.) and R.E. Gold. Field efficacy of Dinotefuran granular bait for *Paratrechina* sp. nr. *pubens* control. \$5,000. *Granting Agency*: Whitmire.

2007 J.M. Meyers (P.I.) and R.E. Gold. Laboratory efficacy of insect growth regulator, Novaluron, for *Paratrechina* sp. nr. *pubens* control. \$6,000. *Granting Agency*: Whitmire.

T.C. Keefer, **J.M. Meyers**, and R.E. Gold (P.I.). Field evaluation of Transport 50 WP against the *Paratrechina* sp. nr. *pubens*. \$10,000. *Granting Agency*: FMC.

Professional Presentations at Meetings or Conferences

- 2003** Poster presentation: **Meyers, J.M.**, D.C. Steinkraus, F.M. Stephen, and D.J. Crook. 2003. Survey of Natural Pathogens of Red Oak Borer, *Enaphalodes rufulus*, in Northwest Arkansas. **Entomological Society of America National Meeting**: Cincinnati, OH
- 2004** Paper presentation: **Meyers, J.M.**, D.C. Steinkraus, and F.M. Stephen. 2004. Interactions of *Beauveria bassiana* with red oak borer (Coleoptera: Cerambycidae) and northern red oaks, *Quercus rubra*, in northwest Arkansas. **Entomological Society of America National Meeting**: Salt Lake City, UT
- 2005** Poster presentation: **Meyers, J.M.**, C. Keefer, and R. Gold. Evidence of a new *Paratrechina* sp. (Hymenoptera: Formicidae): Description, range and laboratory control. **Entomological Society of America National Meeting**: Ft. Lauderdale, FL
- 2006** Paper presentation: **Meyers, J.M.** Evidence of a new *Paratrechina* sp. (Hymenoptera: Formicidae): Description, distribution and laboratory control. **Urban Pest Management Conference and Workshop**: Texas A&M University, College Station, TX
- Paper presentation: **Meyers, J.M.** and Roger E. Gold. Morphological and biological assessment of an exotic *Paratrechina* sp. (Hymenoptera: Formicidae) in Texas. **National Conference on Urban Entomology**: Raleigh, NC
- Invited speaker: **Meyers, J.M.** and Roger E. Gold. Morphological and biological assessment of an exotic *Paratrechina* sp. (Hymenoptera: Formicidae) in Texas. **Entomology Science Conference** (Dept. Entomology, Texas A&M University): College Station, TX
- 2007** Continuing Education Unit Presentation: **Meyers, J.M.** and Roger E. Gold. Biological assessment of an exotic *Paratrechina* sp. (Hymenoptera: Formicidae) in Texas. **Urban Pest Management Conference and Workshop**: Texas A&M University, College Station, TX

Invited speaker: **Meyers, J.M.** and Roger E. Gold. Biological assessment of an exotic *Paratrechina* sp. (Hymenoptera: Formicidae) in Texas.
Southwestern Branch Entomological Society of America Conference,
Corpus Christi, TX

Guest Lecturer: Social Insects. To be presented in **Entomology 322**, Insects in Human Society, Texas A&M University, College Station, TX

Paper presentation: **Meyers, J.M.** and R.E. Gold. Field efficacy of Phantom SC, Advance granular bait, and present and expanded label usage Termidor SC against exotic pest ant, *Paratrechina* sp. nr. *pubens*. To be presented at the **Entomological Society of America National Meeting**, San Diego, CA

2008 Invited speaker: Meyers, J.M. and R.E. Gold. Biological activity of invasive pest ant, *Paratrechina* sp. nr. *pubens*, in Texas. To be presented during Invasive Pest Ant Symposium at the **National Conference on Urban Entomology**, Tulsa, OK

Publications

Austin, J.W., J.R. Williamson, **J.M. Meyers**, and J.A. Lewter. 2007. Urban Entomology: A student debate. Topic 4, Con Position: Are the current requirements for registering pesticides for use by homeowners suitable for all areas of urban entomology, including schools? Amer. Entomologist. 53: 108-109.

Meyers, J.M., J.W. Austin, A. Szalanski, T. Nobre, and R.E. Gold. Biogeography of euedaphic *Reticulitermes* (Isoptera: Rhinotermitidae) populations from the Palearctic. Sociobiology. (In preparation).

Community Outreach

2003-4

Outreach for the University of Arkansas Entomology Club. Insect presentations to children at public libraries and schools, the city of Fayetteville's "Spring Fest" and the entomology department's Insect Festival.

2006

Provided information and suggestions relevant to concerns of residents and PMPs adversely affected by the invasive pest ant, *P. sp. nr. pubens* during an organized meeting in Deer Park, TX.

2005–current

Provide(d) information to homeowners, businesses, PMPs, and local, state, and federal governments regarding the numerous pest issues encountered by *P. sp. nr. pubens* infestations.

Provide(d) technical support for PMPs calling in for identification confirmation of pest ants.