

Curriculum Vitae

M. Andrew Johnston

School of Life Sciences, Arizona State University
Tempe, AZ 85287-4501

Mobile: 302-545-4779
Email: ajohnston@asu.edu

CURRENT POSITION

Graduate Research Assistant Arizona State University, Dr. Nico Franz
July 2013 – Present

Evolutionary Biology doctoral student. Studying insect systematics and evolution under Dr. Nico Franz. Currently working on NSF funded phylogenetic revisions of darkling beetles in the tribe Amphidorini (Coleoptera: Tenebrionidae), combining morphological and molecular data.

EDUCATION

Bachelors of Science, Entomology University of Delaware, Newark
May 2011

RESEARCH INTERESTS

My research interests are broadly focused on insect systematics, speciation and evolution. Specifically I am interested in using combined morphological and molecular data to recover phylogenies to be used to understand patterns and processes of speciation, character evolution and biogeography. My taxonomic focus is the mega diverse beetle family Tenebrionidae Latrille 1802, specifically the North American tribe *Amphidorini* LeConte 1862.

PREVIOUS POSITIONS

Scientific Assistant American Museum of Natural History, Invertebrate Zoology
March 2012 – June 2013

Identified, sorted and prepared insect specimens. Prepared and conserved fossil amber insect specimens. Developed photomicrographs of insects. Assisted visiting researchers with the collection. Prepared specimens for exhibits. Fulfilled loan requests which included specimen handling and customs paperwork.

RESEARCH EXPERIENCE

Research Assistant American Museum of Natural History, Dr. David Grimaldi
April 2012 – June 2013

Examined internal and external genitalic characters of Drosophilidae fruit flies. Used Confocal Laser Scanning Microscopy (CLSM) to image dissected genitalia. Developed and improved CLSM protocols for better imaging results. Imaged characters to be used in the description of new species of Drosophilidae from Ecuador.

Research Assistant University of Delaware, Dr. Charles Mason
June 2009 – Aug 2010

Designed and carried out a study to identify peak pheromone production times of European Corn Borer. Reared and handled live insects. Dissected pheromone glands. Prepared, collected and analyzed gas chromatography sample data. Investigated efficacy of refuge plantings dispersed throughout corn plots with respect to European Corn Borer control. Reared, handled and infested live insects into the field. Collected and managed data. Maintained research field plot.

Research Assistant University of Delaware, Dr. Susan King
July 2002 – April 2003

Curriculum Vitae

As a high school student, designed and installed termite traps in the field to compare design efficiencies. Designed and carried out study protocol. Built, installed, and monitored termite traps

PUBLICATIONS

- Johnston, M.A., Fleming, D., Franz, N.M., Smith, A.D. 2015.** Amphidorini LeConte (Coleoptera: Tenebrionidae) of Arizona: Keys and Species Accounts. The Coleopterists Society Monograph 14:27-54.
- Johnston, M.A. 2015.** A Checklist and New Species of *Eleodes* Eschscholtz (Coleoptera: Tenebrionidae) Pertaining to the Subgenus *Promus* Leconte, with a Key to United States Species. The Coleopterists Bulletin 69(1): 11-19.
- Grimaldi, D., Johnston, M.A. 2014.** The long-tongued Cretaceous scorpionfly *Parapolycentropus* Grimaldi and Rasnitsyn (Mecoptera, Pseudopolycentropodidae) : new data and interpretations. American Museum Novitates. No. 3793.

PRESENTATIONS

- Johnston, M.A., Kanda, K., Smith, A.D. 2015.** Phylogenetic analysis of Amphidorini LeConte: Understanding the evolution of the desert stink beetles (Coleoptera: Tenebrionidae). Entomology 2015, Entomology Society of America Annual Meeting. Minneapolis, MN (Talk)
- Johnston, M.A. 2015.** Darkling Beetle Diversity and an overview of Systematics and Biogeography of the Desert Stink-Beetles. Arizona State University, Social Insect Research Seminar. Tempe, AZ (Talk)
- Johnston, M.A. 2014.** Sand Dune Speciation: Exploring the Evolutionary History of *Trogloderus* LeConte (Coleoptera: Tenebrionidae). Entomological Society of America Annual Meeting. Portland, OR (Talk)
- Johnston, M.A., Smith, A.D., Franz, N. 2014** *Eleodes* and Allies: Phylogenetic Assessment of Amphidorini LeConte (Coleoptera:Tenebrionidae). Entomological Society of America Pacific Branch. Tucson, AZ (Talk)
- Smith, A.D., Johnston, M.A. 2013.** Towards a comprehensive phylogenetic revision of the genus *Eleodes* (Coleoptera: Tenebrionidae). Entomology 2013, Entomological Society of America (Talk)
- Johnston, M.A. 2012** The European Corn Borer: Getting to the Center of Genetically Modified Crops. New York Entomological Society. New York, NY (talk)
- Mason, C., Johnston, M.A. 2011** Optimum yield of sex pheromone in European corn borer (*Ostrinia nubilalis*) during scotophase. Annual Meeting, Entomological Society of America. Reno, NV (poster)

PROFESSIONAL ORGANIZATIONS

Coleopterists Bulletin Editorial Committee	2015-
Coleopterists Society	Member since 2013
Entomological Society of America	Member since 2013
Entomological Collections Network	Sustaining Member since 2013

OUTREACH

- Beer and Bones, Arizona Museum of Natural History – May 24, 2015**
- Night of the Open Door, ASU – Feb 28, 2015**
- Career Day, - Feb 4, 2015**
- Alameda Grand Open House, ASU – Oct. 2, 2014**
- Dragonfly and Butterfly Bash, City of Chandler - Sept. 27 2014**