

Bill D. Wills

Postdoctoral Research Associate, Michigan State University
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EDUCATION

- Ph.D. in Biology**, University of Illinois Urbana-Champaign, 2013
Dissertation: “The Implications of Ecology on Body Size Distributions in Social Insects”
Advisor: Andrew V. Suarez
- BS in Evolution, Ecology, and Biodiversity**, University of California Davis 2006
Regents Scholar, High Honors

PROFESSIONAL TRAINING

- Postdoctoral Research Associate** October 2014-Present
Michigan State University
Supervisor: Doug A. Landis Ph.D.
- Postdoctoral Research Associate** December 2013-September 2014
University of Illinois Urbana-Champaign,
Supervisor: Andrew V. Suarez Ph.D.
- Ant Course**, Cal Academy of Sciences, 2009
Southwest Research Station, AZ
- Tropical Biology: An Ecological Approach**, Organization for Tropical Studies 2008
San José, Costa Rica

PUBLICATIONS

- Wills BD**, Moreau CS, Wray BD, Hoffman B, and Suarez AV. 2014. Body size variation in geographically distinct populations of the invasive ant *Pheidole megacephala* (Hymenoptera: Formicidae). *Biological Journal of the Linnean Society*.
- Tillberg CV, Edmonds B, Freauff A, Hanisch P, Paris C, Smith CR, Tsutsui ND, **Wills BD**, Wittman SE, and Suarez AV. 2014. Foraging and nesting ecology of the giant, queen-less ant *Dinoponera australis* (Hymenoptera: Formicidae). *Biotropica*.
- Wills BD**, Chong CD, Wilder SM, Eubanks MD, Holway DA, and Suarez AV. 2015. Influence of nutrition on investment in worker number, size, and condition in a polymorphic social insect. *PLoS ONE*.
- Wills BD**, Hood N, Wilder SM, Eubanks MD, Holway DA, and Suarez AV. Diet and investment in worker number, size, and condition of two ant species. *In Preparation*
- Wills BD** and Suarez AV. Testing the predictions of Lanchester's laws of combat with a continuously polymorphic ant: tradeoffs between worker number and size. *In Preparation*.

FELLOWSHIPS, GRANTS, AWARDS

- Summer Research Grant, *Univ. of Illinois (UIUC), Dept. of Animal Biology* (\$1,000) 2008, 2011, & 2012
- Edwin R. Banks Memorial Award, *UIUC, Dept. of Animal Biology* (\$500) 2009 & 2012
- Dissertation Travel Grant Fall, *UIUC, Graduate College* (\$3,125) 2011
- Tinker Fellowship, *UIUC, School of Latin American Studies* (\$1,450) 2009 & 2011
- Clark Research Award, *UIUC, School of Integrative Biology* (\$1,250) 2009
- Phillip Smith Memorial Fund, *UIUC, Dept. Natural Resources and Environmental Sciences* (\$750) 2009
- Sigma Xi Grants-in-Aid of Research Program Grant, *Sigma Xi* (\$400) 2009

FELLOWSHIPS, GRANTS, AWARDS CONT.

Organization for Tropical Studies Grant, <i>Universidad de Costa Rica</i> (\$1,500)	2008
Graduated with High Honors, <i>University of California Davis (UC Davis)</i>	2006
Departmental Citation for Outstanding Academic and Research Achievement, <i>UC Davis</i>	2006
Recipient of Regents Scholarship, <i>UC Davis</i> (\$15,000)	2006

TEACHING EXPERIENCE

IB 203 Ecology , Teaching Assistant School of Integrative Biology, UIUC	Fall 2009, Fall 2010*, Fall 2013*
IB 105 Environmental Biology , Teaching Assistant School of Integrative Biology, UIUC	Fall 2011, Spring 2012*
IB 496 Foundations in Ecology , Course Coordinator School of Integrative Biology, UIUC	Spring 2012
IB 203 Anatomy and Physiology , Teaching Assistant School of Integrative Biology, UIUC	Spring 2011*
IB 150 Organismal and Evolutionary Biology Teaching Assistant School of Integrative Biology, UIUC	Fall 2007, Spring 2009*
IB 429 Animal Behavior , Teaching Assistant School of Integrative Biology, UIUC	Fall 2009
Guest Lecturer , IB 105 Environmental Biology, UIUC	Spring 2012

Teaching Certificates

Teacher Scholar Certificate, UIUC	2012
Graduate Student Certificate, UIUC	2011
Postdoctoral Teaching Scholar, Michigan State University	2015

*Listed: Teacher Ranked as Excellent by Their Students

MENTORING

Undergraduate Independent Research Projects

Newton Hood , Co-author on manuscript in preparation	2012-2014
Cody Chong , Co-author on manuscript	2010-2012
Amanda Robinson , Graduated with Distinction and Awarded: Harriet Long Research Award for Outstanding Research	2009-2010
Stephanie Tham , Awarded: Mildred Award for Outstanding Achievement	2009-2010
Undergraduate Research Assistants (2+ semesters)	2012-Present
Akins, S, Budde Z, Choi C, DeAnda T, Duffy M, Ferchau J, Forster E, Hinz M, Kalin J, Robinson C, Tucker M, Skrekut A, Wszalek A, Wong K, and Zheng H	

PRESENTATIONS

The role of ants in temperate managed grasslands. Great Lakes Bioenergy Research Center Symposium, South Bend, IN. May 20-22, 2015.

The causes and consequences in body size variation in ants. Saint Mary's University (*Liberal Arts College*) Invited Speaker, Winona, MN. March 13, 2014.

The influence of ecology on body size variation in ants. University of Illinois, Program in Ecology, Evolution and Conservation Biology Seminar Series, Urbana, IL. September 25, 2013.

PRESENTATIONS CONT.

Testing Lanchester's laws with a continuously polymorphic ant species. Entomological Society of America, Austin, TX. November 10-13, 2013.

The role nutrition on worker demography in an invasive social insect: *Solenopsis invicta*. Entomological Society of America, Knoxville, TN. November 11-14, 2012.

Considerations and preparation for graduate school: Where to start and how to move forward. School of Integrative Biology Career Development Workshop Series, Urbana IL. October 11, 2012

Ecological influences on body size distribution in ants. International Union for the Study of Social Insects-North American Branch Meeting, Greensboro, NC. October 5-7, 2012.

Geographical variation in body size of the dimorphic invasive species: *Pheidole megacephala*. Entomological Society of America, San Diego, CA. December 12-15, 2011.

SERVICE

Journal Reviewer, Biological Invasions and Ecological Entomology

Board Member, Provost and Graduate College Advisory Board, UIUC 2012-2013

President Graduates in Ecology and Evolutionary Biology (GEEB), UIUC 2010-2012

Workshop Coordinator GEEB, UIUC 2009-2010

Ecolunch Coordinator GEEB, UIUC 2008-2009

Member

International Union for the Study of Social Insects 2010-Present

Entomological Society of America 2009-Present

OTHER PROFESSIONAL EXPERIENCE

Laboratory Assistant 2007

West Valley Mosquito and Vector Control, Ontario, CA

Entomology Intern 2006

USGS-BRD, Volcanoes National Park, HI

Endangered Species Intern 2005-2006

Fish and Wildlife Service, Sacramento, CA

Wildlife Biology Intern 2005

Santa Monica National Recreational Area, Thousand Oaks, CA