

Jennifer Jandt

Curriculum Vitae

Department of Ecology and Evolutionary Biology
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Education

University of Arizona

Degree: PhD Ecology & Evolutionary Biology
Advisor: Dr. Anna Dornhaus
Thesis Title: Mechanisms of organization in social insects: The influences of spatial allocation, dominance interactions, worker variation in bumble bees
Current GPA: 3.92

Anticipated
Graduation Date
May 2010

University of Wisconsin - Madison

Degree: MS Entomology
Advisor: Dr. Robert L. Jeanne
Thesis Title: Communication strategies among foragers of the German yellowjacket, *Vespula germanica* (Hymenoptera: Vespidae)
GPA: 3.88

August 2004

University of Wisconsin - Madison

Degree: BS Zoology, Psychology; Conc. in Environmental Studies
GPA: 3.03

May 2001

Research

- **Bumble bees (*Bombus impatiens*):** Behavioral experiments conducted to determine the role of each individual on colony performance 2005-Present
 - ♦ Advisor: Dr. Anna Dornhaus
 - ♦ Dept of Ecology & Evolutionary Biology, University of Arizona
 - **Individual-based models:** Models designed to test how (1) dominance hierarchy or (2) within-group phenotypic variation affects group performance Summer 2007
 - ♦ Advisors: Dr. Anna Dornhaus & Dr. John Pepper
 - ♦ Dept of Ecology & Evolutionary Biology; Bio5 Institute, University of Arizona
 - **Honey bees (*Apis mellifera*):** Bee biology and husbandry; 5 week course Spring 2008
 - ♦ Instructor: Dr. Rob Page
 - ♦ Arizona State University
 - **Yellowjacket wasps (*Vespula germanica*):** Behavioral experiments conducted to study foraging and recruitment 2001-2004
 - ♦ Advisor: Dr. Robert Jeanne
 - ♦ Dept of Entomology, UW-Madison
 - **Rhesus macaques (*Macaca mulatta*):** WGTA cognitive testing on juveniles 1999-2001
 - ♦ Advisor: Dr. Mary Schneider
 - ♦ Dept of Kinesiology, UW-Madison
 - **Rainforest Dynamics:** Pollinator variability & Great-tailed grackle distribution Summer 2000
 - ♦ Study abroad in Monteverde, Costa Rica
 - **Shorebirds:** Density & aggressive behavior at Tijuana Estuary Reserve, San Diego Winter 2001
 - ♦ Senior Thesis; Dept of Zoology, UW-Madison
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Publications

- **Jandt, J. M.**, Dornhaus, A. 2009. Spatial organization and division of labor in the bumble bee, *Bombus impatiens*. *Animal Behaviour* 77: 641-651.
- **Jandt, J. M.**, Huang, E., Dornhaus, A. In Review. Weak specialization of workers inside a bumble bee nest. *Behavioral Ecology & Sociobiology*.
- **Jandt, J. M.**, Dornhaus, A. In Prep. Queen presence affects the division of labor and space use in the bumble bee, *Bombus impatiens*.
- **Jandt, J. M.**, Taylor, B., Jeanne, R. L. In Prep. Environmental and physical constraints affect carbohydrate collection in German yellowjackets, *Vespula germanica* (Hymenoptera: Vespidae).
- **Jandt, J. M.**, Riel, L., Crain, B., Jeanne, R. L. 2005. *Vespula germanica* foragers do not scent-mark carbohydrate food sites. *Journal of Insect Behavior* 18: 19-31.
- **Jandt, J. M.**, Jeanne, R. L. 2005. German yellowjacket (*Vespula germanica*) foragers use odors inside the nest to find carbohydrate food sources. *Ethology* 111: 641-651.
- **Jandt, J. M.**, Curry, C., Hemauer, S., Jeanne, R. L. 2005. The accumulation of a chemical cue: Nest entrance trail in the German yellowjacket, *Vespula germanica*. *Naturwissenschaften* 92: 242-245.

Presentations

- **Jandt, J.** 2008. The relationship between spatial organization and division of labor in the bumble bee, *Bombus impatiens*. North American Section (NAS) of the International Union for the Study of Social Insects (IUSI) Breakout Meeting, Arecibo, Puerto Rico.
- **Jandt, J.** 2008. The relationship between spatial organization and division of labor in the bumble bee, *Bombus impatiens*. 4th IUSI European Meeting. La Roche-en-Ardenne, Belgium.
- **Jandt, J.**, Dornhaus, A. 2007. In-Nest Task Specialization in the Bumble Bee, *Bombus impatiens*. The Entomological Society of America (ESA) Annual Meeting, San Diego, CA.
- **Jandt, J.**, Dornhaus, A. 2006. Spatial Distribution of Bumble Bees (*Bombus impatiens*) Inside the Nest: Evidence for Spatial Fidelity Zones among Workers. International Union for the Study of Social Insects (IUSI) International Meeting, Washington, D.C.
- **Jandt, J.**, Klein, T., Dornhaus, A. 2006. Modeling Complexity: How dominance affects spatial organization. IT-Biosciences Internship Program, University of Arizona.
- **Jandt, J.**, Jeanne, R. L. 2005. How yellowjackets find food. Ecology & Evolutionary Biology Seminar, University of Arizona.
- **Jandt, J.**, Riel, L., Crain, B., Jeanne, R. L. 2003. *Vespula germanica* foragers do not scent mark food sites. Entomological Society of America (ESA) National Meeting, Cincinnati, OH.

Awards and Fellowships

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| • Graduate Student Research Support Award – Center for Insect Science, University of Arizona | \$2,000 | March 2008 |
| • Outstanding Mentor/Teaching Assistant – College of Science, U of A | \$100 | March 2008 |
| • BioME Graduate Fellowship – University of Arizona, Bio5 Institute | \$30,000 | June 2007 |
| • IT-Biosciences Summer Internship – University of Arizona, Bio5 Institute | \$5,000 | June 2006 |
| • Travel Awards | | |
| ♦ University of Arizona, Women in Science & Engineering (WISE) | \$300 | Fall 2008 |
| ♦ International Union for the Study of Social Insects (IUSI) | \$100 | Fall 2008 |
| North American Section (NAS) | \$600 | Spring 2006 |
| ♦ University of Arizona, Graduate & Professional Student Council | \$500 | Summer 2008 |
| | \$300 | Spring 2006 |
| ♦ University of Arizona, Center for Insect Science | \$500 | Fall 2007 |
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Teaching

University

- Marine Biology: University of Arizona – Lecture TA, Lab Instructor Spring 2009
- Animal Behavior: University of Arizona - Lecture TA, Lab Instructor Fall 2008
- Sociobiology: University of Arizona Fall 2006
- Introductory Biology Lab Instructor: University of Arizona
 - ♦ Ecology & Evolutionary Biology Spring 2006, 2007
 - ♦ Molecular Biology Fall 2005
- Introductory Entomology Lab Instructor: University of Wisconsin-Madison Spring 2003

K-12

- BioME: 3rd & 4th Grade Science Instructor 2007 / 2008
 - ♦ NSF sponsored K-12 outreach program
 - ♦ University of Arizona, Bio5 Institute
- AmeriCorps: K-5 Literacy Tutor 2004 / 2005
 - ♦ Wisconsin Department of Public Instruction
- After-School K-5 Activity Leader 2004 / 2005
 - ♦ Madison School & Community Recreation, WI

Departmental Positions

- Graduate Student Recruitment Co-Coordinator – U of A, Ecology & Evolutionary Biology Spring 2007
- Fund Raising Chair - UW Entomology Graduate Student Association 2003/2004
- Secretary/Treasurer - UW Entomology Graduate Student Association 2002/2003
- Search & Screen Committee - UW Extension Entomology Hire 2002/2003

Volunteer / Outreach

- BioME 2007-08
 - ♦ 3rd & 4th Grade science instructor at Lynn-Urquides Elementary School
 - ♦ NSF sponsored program through University of Arizona and Bio5 Institute
- Primates Inc. 2004-Present
 - ♦ Non-profit organization to promote retirement of non-human primates
 - ♦ Madison, WI
- AmeriCorps 2004/05
 - ♦ K-5 Literacy Tutor
 - ♦ Wisconsin Department of Instruction, Madison, WI
- Insect Ambassador Program 2001-04
 - ♦ PreK-12 insect education outreach
 - ♦ Dept of Entomology, UW-Madison
- Henry Vilas Zoological Society Summer 1999, 2000
 - ♦ Visitor Information Center Volunteer
 - ♦ Madison, WI