### Curriculum Vitae- Sarah E. Bengston

Rice University, Department of BioSciences / sbengsto@gmail.com / (860) 575-4534

Academic Appointments	
Huxley Faculty Fellow	2017 - current
Rice University	
Department of BioSciences	
National Science Foundation Postdoctoral Fellowship in Bi	ology 2015 - 2017
University of Rochester	
Department of Biology	
Mentor: Christian Rabeling	
Education	
University of Arizona	Ph D.
Department of Ecology and Evolutionary Biology	2010 - 2015
Mentor: Anna Dornhaus	
University of Tennessee	<b>Bachelor of Science</b>
Honors Ecology and Evolutionary Biology	2007 - 2010
Mentor: Susan Riechert	

#### **Publications**

- 1) **Bengston SE,** Dahan RA, Donaldson Z, Phelps S, Sih A, Bell A. (*in revision*). Genomic tools for behavioral ecologists: advancing the understanding of repeatable behavioral variation. *Nature Ecology and Evolution*.
- 2) **Bengston SE**. (*in revision*) Pace of life at the colony level: a test of between population variation in *Temnothorax* ants. *Behavioral Ecology and Sociobiology*.
- 3) **Bengston SE,** Dornhaus A, Rabeling C. (*submitted*). Facultative social parasitism in *Temnothorax* ants supports the territoriality hypothesis of slave-making ant evolution. *Proceedings of the Royal Society B.*
- Bengston SE, Shin M, Dornhaus A. 2017. Life-history strategy and behavioral type: Risk-tolerance variation reflects differing growth rates and energy allocation in *Temnothorax* ant colonies. *Oikos*. 126: 556-564
- 5) **Bengston SE**, Dornhaus A. 2015. Latitudinal variation in risk-tolerance is driven by competition and spatial distribution in *Temnothorax* ants. *Behavioral Ecology & Sociobiology*. 69:1265-1274.
- 6) **Bengston SE,** Jandt J. 2014. The development of collective personality: the ontogenetic drivers of behavioral variation across groups. <u>Invited review</u>, *Frontiers in Ecology and Evolutionary Biology*. Published online. doi: 10.3389/fevo.2014.00081
- 7) **Bengston SE**, Dornhaus A. 2014. Be meek or be bold? A colony-level behavioral syndrome in ants. *Proceedings of the Royal Society B*. doi:10.1098/rspb.2014.0518
- Bengston SE, Pruitt JN, Riechert SE. 2014. Natal environment induces the formation of correlated behavioral traits in *Brachypelma smithi* tarantulas. *Animal Behaviour*. 93: 105-110.

- Jandt J, Bengston SE, Pinter-Wolman N, Pruitt J, Raine N, Dornhaus A, Sih A. 2014. Behavioral syndromes and social insects: personality at multiple levels. *Biology Review*. 89: 48-67.
- 10) Westling J\*, Harrington K\*, **Bengston S**, Dornhaus A. 2014. Morphological differences between foragers and non-foragers in the ant *Temnothorax rugatulus*, but no effect of body size on foraging distance. *Insectes Sociaux*. 1-3.
- 11) Bibbs CS, Bengston SE, Gouge DH. 2014. Exploration of refuge preference in the Arizona bark scorpion, *Centruroides sculpturatus* (Scorpiones: Buthidae). *Environmental Entomology*. 43: 1345-1353.
- 12) Bibbs CS, **Bengston SE**, Gouge DH. 2014. Activity trends and movement distances in the Arizona bark scorpion, *Centruroides sculpturatus* (Scorpiones: Buthidae). *Journal of Environmental Entomology*. 43: 1613-1620
- 13) **Bengston SE**, Dornhaus A. 2013. Colony size does not predict foraging distance in the ant *Temnothorax rugatulus*: a puzzle for standard scaling models. *Insectes Sociaux* 60: 93-96.
- 14) Dornhaus A, Powell S, **Bengston SE.** 2012. Group size and its effects on collective organization. *Annual Review of Entomology* 57: 123-141

\*Indicates mentored undergraduate student

#### Manuscripts in Preparation

Bengston SE, Rabeling C. The evolutionary bifurcation of socially parasitic strategy.

- **Bengston SE**, Fischer N, Jandt J. Colony considerations: Lab vs field strengths and limitations in the study of social insects.
- **Bengston SE**, Binder C, Papaj D. Multimodal cues and collective navigation during next emigration in *Temnothorax* ants.

Lanan M, Bengston SE, McGlynn T. Competition is not the hallmark of ant ecology.

<b>Awards and Fello</b>	wships
-------------------------	--------

\$138,000
\$1500
\$500
\$600
\$200
\$200
\$600
\$500
\$1000
\$1000
\$500
\$500

## 

2012 Center for Insect Science Travel Award International Society of Behavioral Ecology Travel Grant Graduate & Professional Student Council Travel Award Animal Behavior Society Travel Grant Honorable Mention for NSF Graduate Research Fellowship Program	\$500 \$500 \$500 \$500
<b>2009</b> U Tenn. Undergraduate Summer Internship Scholarship	\$2000
University Teaching 2017	
Instructor of Record Intro to Ecology and Evolutionary Ecology- 3-unit lecture cou	urse Rice University
Lab Module in Animal Behavior – 1-unit lab course, Rice Uni 2016	
Guest Lecture- University of Rochester; Introduction to Organismal E Topic – Cooperation and Conflict Topic – Kin selection Topic – Eusociality	Evolution
2015	
<ul> <li>Guest Lecture – University of Rochester; Animal Behavior course. Topic - Personality and Behavioral Syndromes in Animals Topic - The Evolution of Altruism</li> <li>Guest Lecture – SUNY Geneseo, Departmental Seminar Topic – Collective Animal Personality, Risk-taking at the cold Teaching Assistant – University of Arizona, Evolution course Head TA for lecture and discussion</li> <li>2014</li> </ul>	ony level
Guest Lecturer – University of Arizona Animal Behavior course Topic – Personality and Behavioral Syndromes in Animals Teaching Assistant – University of Arizona, Evolution course Head TA for lecture and discussion Teaching Assistant – Sociobiology Lecturer, grader	
<ul> <li>2013 Teaching Assistant – University of Arizona, Evolution course Head TA for lecture and discussion Teaching Assistant – Sociobiology Lecturer, grader </li> <li>2012 Teaching Assistant – University of Arizona, Evolution course Head TA for lecture and discussion Teaching Assistant – Animal Behavior Lab designer and organizer, Grader, Lecturer</li></ul>	

2011

Teaching Assistant – University of Arizona, Evolution course

Head TA for lecture and discussion

Teaching Assistant – Sociobiology Lecturer, grader

### 2010

Teaching Assistant – Sociobiology

Lecturer, grader

Undergraduate Assistant – Introductory Biology, University of Tennessee Lab assistant

# Conference Presentations

Poster presentation, International Society for Behavioral Ecology, Lund, Sweden

### Outreach

Rice To Rural Community Connection (R2C2)	2017- current	
Co-founder and organizer of a rural outreach program to provide STEM teachers		
in rural Texas with resources, access to teaching pedagogy and training opportunities.		
Arizona Desert Museum	2015, 2014	
Volunteered as a handler for the arthropod exhibits during outreach events		
Arizona Insect Festival	2014, 2013, 2012, 2011	
Designed exhibits and volunteered at the social insects booth		
Sonoran Arthropods Studies Institute	Nov. 25, 2012	
Guest Lecturer: "Personalities in Arthropods"		
Biology in a Box –University of Tennessee	2009-2010	

Lesson development, construction, K-12 teacher instruction

## Service \_\_\_\_\_

Animal Behavior Society- Strategic Planning Committee	2015- Current	
Develop a mission statement and plan to execute these goals over the next 5-10		
years.		
Peer review for:	2011- Current	
Animal Behaviour, Frontiers in Ecology and Evolution, Bel	havioral Ecology and	
Sociobiology, Behavioral Ecology, Ethology, Insect Ecology, Insectes Sociax,		
The Science of Life		
Insect Behavior Journal Club	2011-2013	
Founder and organizer, ~25 members		
EEB Rep. to Associated Graduate Council for the College of Science 2011-2012		
Attended monthly meetings with the Dean to provide feedback to the CoS on		
graduate affairs in the EEB department.		
Graduate Student Rep. to Department of EEB	2012	
Attended faculty meetings, solicited graduate student feedback on faculty hires		
and P & T decisions, organized student lunches with guest lecturers, organized		
recruitment events		
Graduate Recruitment Coordinator	2011	
Worked with the graduate representatives to organize graduate student		
recruitment, with a recruiting class of 45 students.		

### Students Mentored

Cara Brand- Graduating 2017, applying to medical school Aaron Scott- Graduating 2017, applying to medial school Romain Dahan- Ph.D Student, Arizona State University Colby Behrens- Graduating 2018, University of Iowa Teva Mayer- Graduating 2017, University of Washington Hunter Guerin- High school student, SArSEF (state-wide science fair) finalist Eric Vornholt- Graduated 2015, attending graduate school in Psychology Jeffrey Westling- Graduated 2014, attending law school Chantal Binder- Graduated 2012, currently nurse practitioner Dakota Manness- Graduated 2012, attending graduate school in Biology Kevin Harrington- Undergraduate senior, graduated winter 2015 Kory O'Hara-Hanley- 2012 Angela Kristof- 2011, funded by Minority Health Disparities Summer Research program

# Collaborators \_\_\_\_\_

Anna Dornhaus - University of Arizona	Christian Rabeling- U of Rochester
Susan Reichert – University of Tennessee	Jonathan Pruitt – UC Santa Barbara
Jennifer Jandt – University of Otago	Andy Sih – UC, Davis
Noa Pinter-Wollman – UC, San Diego	Nigel Raine – Guelph University
Denis Reale – University of Quebec	Minsul Shin – UNC, Charlotte
Scott Powell – George Washington University	Michele Lanan – Deep Springs College
Christopher Bibbs - University of Arizona	Dawn Gouge - University of Arizona
Daniel Papaj – University of Arizona	Terry McGlynn – Cal. State University
Amy Toth- University of Iowa	