

Jeremy S. Gibson

University of Missouri – Department of Biological Sciences
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Education

University of Missouri – Columbia: (Columbia, Missouri, USA)

Ph.D. Candidate 2009 – present
Department of Biological Sciences
Dr. Reginald B. Cocroft, Advisor

University of Cincinnati: (Cincinnati, Ohio, USA)

M.S. June 2006
Department of Biological Sciences
George W. Uetz, Advisor

Northern Kentucky University: (Highland Heights, Kentucky, USA)

B.S. August 2000
Department of Biology

Research Experience

Ph.D. Candidate. 2014 – Present.

- “Chewing vibrations interact with other cues of herbivory to influence plant defenses.” Dr. Rex Cocroft & Dr. Heidi Appel. University of Missouri, Department of Biological Sciences, Columbia, Missouri, USA.

Ph.D. Student. 2009 – Present.

- “Localization mechanisms of small plant-dwelling insects.” Dr. Rex Cocroft Advisor. University of Missouri, Department of Biological Sciences, Columbia, Missouri, USA.

Research Assistant III, 2007 – 2009.

- “RON receptor tyrosine kinase and hepatocellular carcinoma.” Dr. Mike Leonis, Primary Investigator. Cincinnati Children’s Hospital Medical Center, Department of Gastroenterology, Cincinnati, Ohio, USA.

Master’s Student. 2002 – 2006.

- “Seismic communication in a wolf spider.” Dr. George W. Uetz, Advisor. University of Cincinnati, Department of Biological Sciences, Cincinnati, Ohio, USA.

Research Assistant. 2001 – 2002.

- “Measurement of priming and satiety thresholds in mice.” Dr. Vladimir Tsibulsky, Primary Investigator. University of Cincinnati, Department of Psychiatry, Cincinnati, Ohio, USA.
- “Passive immunity to cocaine using novel human antibodies.” Dr. Andrew Norman, Primary Investigator. University of Cincinnati, Department of Psychiatry, Cincinnati, Ohio, USA.

Undergraduate Research. Summer 2000.

- “New Mexico cicada field work.” Dr. Jon Hastings, Advisor. Northern Kentucky University, Department of Biological Sciences, Highland Heights, Kentucky, USA.

Undergraduate Research. Summer 1999.

- “The effects of temperature on female response signals in the wing-banger cicada, *Platypedia putnami*.” Dr. Jon Hastings, Advisor. Northern Kentucky University, Department of Biological Sciences, Highland Heights, Kentucky, USA.

Teaching Experience

Graduate Teaching Assistant. 2009 – Present.

University of Missouri, Department of Biological Sciences, Columbia, Missouri, USA.

- Animal Behavior Laboratory (independently developed/implemented)
- Freshman Biology Laboratory
- Invertebrate Zoology Laboratory

GK-12 Fellow. Aug. 2011 – May 2012.

University of Missouri, Department of Biological Sciences, Columbia, Missouri, USA.

- Developed, taught and assisted in the teaching of various science topics to 4th graders at two Columbia, Missouri, USA, public schools.

Outreach Educator. Jan. 2007 – Sept. 2007.

Cincinnati Museum Center, Cincinnati, Ohio, USA.

- Traveled to schools in the Cincinnati area, presenting programs on a variety of natural history topics to students ranging from 3 to 18 years old.

Aquatic Biota Educator. Aug. – Nov. 2006.

ORSANCO (Ohio River Valley Water Sanitation Commission) Ed. Foundation, Cincinnati, Ohio, USA.

- Using an actual riverboat for a high school classroom, we would travel the Ohio River illustrating various techniques to test water quality.

Graduate Teaching Assistant. 2002 – 2006.

University of Cincinnati, Department of Biological Sciences, Cincinnati, Ohio, USA.

- Freshman Biology Laboratory II (Head TA)
- Freshman Biology Laboratory I, II, and III (+ Honors)
- Anatomy and Physiology Laboratory I
- Invertebrate Zoology Laboratory (Graduates & Undergraduates)

Nocturnal Adventures Instructor. 2006 – 2009.

Cincinnati Zoo and Botanical Gardens, Cincinnati, Ohio, USA.

- Assisted and lead programs geared towards the education of children and the general public on topics of adaptations, biodiversity and predator-prey interactions.

Emergency Certified Teacher. Jan. - June 2001.

Simon Kenton High School, Kenton County Schools, Independence, Kentucky, USA.

- Chemistry Lecture and Laboratory

Undergraduate Teaching Assistant. Aug. – Dec. 1999.

Northern Kentucky University, Dept. of Biological Sciences, Highland Heights, Kentucky, USA.

- UTA – Biology Laboratory I

Professional Experience

Administrative Assistant. Jan 2006 – June 2006.

University of Cincinnati, Department of Biological Sciences, Cincinnati, Ohio, USA.

- Assisted in the development and organization of a new field station for the University of Cincinnati.

Grants

American Arachnological Society Research fund. 2004. \$350

- Seismic Communication in a Wolf Spider – Competitive

Wieman/Wendel/Benedict Research Grant. 2004. \$1000.00

- Seismic Communication in a Wolf Spider – Competitive

Greaves Summer Fellowship. 1999. \$3000.00

- Undergraduate summer research fellowship – Competitive

Honors

GK-12 Fellowship recipient. 2011-2013. University of Missouri, Columbia, MO, USA.

Animal Behavior Society Conference – Founder's Award winner. 2010. College of William and Mary, Williamsburg, VA, USA.

American Arachnological Society Conference – Poster competition (\$50.00). 2006. Notre Dame, Baltimore, MD, USA.

Nominated – Outstanding Teaching Assistant. Fall 2005. University of Cincinnati, Cincinnati, Ohio, USA.

University of Cincinnati Graduate Poster Forum – Cincinnati ASA Year of Physics Award. 2005. University of Cincinnati, Cincinnati, Ohio, USA.

University of Cincinnati Graduate Poster Forum – outstanding poster presentation (\$50.00). 2005. University of Cincinnati, Cincinnati, Ohio, USA.

University of Cincinnati Graduate Poster Forum – outstanding poster presentation (\$50.00). 2004. University of Cincinnati, Cincinnati, Ohio, USA.

CINSAM Research Poster Forum - 1st place (\$500.00). 2000. Northern Kentucky University, Highland Heights, Kentucky, USA.

Presentations

Invertebrate Sound and Vibration Conference, Glasgow Scotland, 07/2013. Paper Presentation

- “Treehoppers follow an experimentally imposed amplitude gradient.”

CUE Bioacoustics seminar, Glasgow Scotland, 03/2013. Invited speaker

- “Mate searching and directional accuracy in treehoppers.”

Animal Behavior Society Conference. 06/2012. Paper Presentation

- “Mate searching and directional accuracy in treehoppers.”

Invertebrate Sound and Vibration. 06/2011. Paper Presentation

- “Vibrational communication: mate searching and directional accuracy in treehoppers.”

Animal Behavior Society Conference. 07/2010. Poster Presentation

- “Male searching and vibration localization in treehoppers.”

American Arachnological Society Conference. 06/2006. Poster Presentation

- “The influence of substrata on seismic signals of the wolf spider *Schizocosa ocreata* (Araneae: Lycosidae).”

American Arachnological Society Conference. 07/2005. Paper Presentation

- “Static and dynamic components of male seismic signals reflect influence of past and current condition in the wolf spider *Schizocosa ocreata* (Araneae: Lycosidae).”

Animal Behavior Society Conference. 08/2005. Paper Presentation

- “Static and dynamic components of male seismic signals reflect influence of past and current condition in the wolf spider *Schizocosa ocreata* (Araneae: Lycosidae).”

University of Cincinnati Graduate Poster Forum. 03/2005. Poster Presentation

- “Male seismic courtship cues and female mate choice in a wolf spider.”

American Arachnological Society Conference. 07/2004. Paper Presentation

- “Seismic communication and mate choice in a wolf spider.”

University of Cincinnati Graduate Poster Forum. 03/2004. Poster Presentation

- “The influence of chemical vs. visual cues from females on male courtship behavior in a wolf spider (Araneae: Lycosidae).”

American Arachnological Society Conference. 07/2003. Poster Presentation

- “The influence of chemical vs. visual cues from females on male courtship behavior in a wolf spider (Araneae: Lycosidae).”

Animal Behavior Society Conference. 07/2003. Poster Presentation

- “The influence of chemical vs. visual cues from females on male courtship behavior in a wolf spider (Araneae: Lycosidae).”

Kentucky Academy of Science Conference. 03/2000. Paper Presentation

- “The effects of temperature on female response signals in the wing-banger cicada, *Platypedia putnami*.”

CINSAM Research Poster Forum. 5/2000. Poster Presentation

- “The effects of temperature on female response signals in the wing-banger cicada, *Platypedia putnami*.”

Publications

Gibson, J.S., Swatek, C.A. & Coccoft, R.B. 2013. The influence of amplitude and propagation velocity on directional decisions in the Thornbug treehopper. (In Prep).

Gibson, J.S. & Coccoft, R.B. 2013. Mate searching and directional accuracy in treehoppers. (In Prep).

Coccoft, R.B., Hamel, J.A., Su, Q. & **Gibson, J.S.** 2014. Playback of animal vibrational signals. In: *Vibrational Communication* (Ed. R.B. Coccoft).

Uetz, G.W., Roberts, J.A., Clark, D.L., **Gibson, J.S.** & Gordon, S.D. 2013. Multimodal signals increase active space of communication by wolf spiders in a complex litter environment. *Behavioral Ecology and Sociobiology*, 67, 1471-1482.

Gibson, J.S. & Uetz, G.W. 2012. Effect of rearing environment and food availability on seismic signaling in male wolf spiders (Araneae: Lycosidae). *Animal Behaviour*, 84, 85-92.

Gibson, J.S. & Uetz, G.W. 2008. Seismic communication and mate choice in wolf spiders: components of male seismic signals and mating success. *Animal Behaviour*, 75, 1253-1262.

Profession Service (Manuscript Peer Review)

- Journal of Animal Behaviour
- Journal of Behavioral Ecology
- Naturwissenschaften

Membership in Professional Societies

- American Arachnological Society
- Animal Behavior Society
- Human Behavior and Evolution Society
- Kentucky Academy of Science
- Tri-Beta Honor Society