

## **Ryan J. Stork Ph.D.**

### *Curriculum Vitae*

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## **PROFESSIONAL GOALS**

I am passionate about teaching and plan to continue to develop courses and degree paths, as well as my own teaching methods, to help students prepare for positions in graduate and professional schools.

Research is also an important part of my career and I plan to continue my research in the areas of invertebrate ecology, behavior, and physiology including undergraduates in my work so that they can gain experience in the areas of research and publication of this research providing a more complete scientific education.

## **PROFESSIONAL BACKGROUND**

### **EDUCATION**

Ph.D. The University of Texas at Arlington, Quantitative Biology, 2011  
B.S. Harding University, Biology, 2005

## **TEACHING EXPERIENCE**

### **UNIVERSITY TEACHING EXPERIENCE**

Graduate Teaching Assistant

(Fall 2005-Spring 2011)

1441-lab Introductory Cell and Molecular Biology lab

1442-lab Introductory Organismal Biology lab

3457- Ecology lab

2457-lab Human Anatomy and Physiology I lab

2458-lab Human Anatomy and Physiology II lab

Supervisor for undergraduate research assistants (2009-2010)

Assistant Professor of Biology at Greenville College

(Fall 2011- Spring 2013)

Bio245 Human Anatomy & Physiology I

Bio 345 Human Anatomy & Physiology II

Bio309 Vertebrate Zoology\* (In transition to become Comparative Vertebrate Anatomy)

Bio112 General Biology II

Bio245L, Bio345L, Bio309L, Bio 112L, & Bio370L (Ecology Lab)

Human Cadaver Lab (for Biol 245 & 345)

Assistant Professor of Biology at Harding University (Fall 2013-Spring 2018)

Associate Professor of Biology at Harding University (Fall 2018 – Present)

Biol 249/3200 Human Anatomy & Physiology I

Biol 3210 Human Anatomy & Physiology II

Biol 307 Ecology  
Biol 121 Zoology  
Biol 315 Medical Entomology  
Biol 3120 Environmental Science  
Biol 111 General Biology  
Biol 2400 Nursing A&P 1 + lab  
Biol 2405 Nursing A&P II + lab  
Biol 3730L Spider Venom Lab  
Biol 2420.AN Online Nursing A&P 1  
Biol 2425.AN Online Nursing A&P 2  
Biol 1302-OL1 Bugs in the System Online

### **FUNDED EXTERNAL GRANTS**

- Stork, R. (2008) American Arachnological Society Student Research Award: one-time \$250. A Potential Temperature Immunity Tradeoff in an Ecologically Important Spider *Rabidosia rabida* (Araneae: Lycosidae) from Arkansas
- Stork, R. (2015) American Arachnological Society Research Award: one-time \$400. Testing the assumptions of venom for trophic activities in *Rabidosia rabida* (Walckenaer 1837) (Araneae: Lycosidae)
- Hogland, B. (2019) Arkansas Space Grant Consortium. Numerous Antimicrobial Peptides found in the venom of *Rabidosia rabida* using MALDI-TOF MS.
- Fronek, E. & Stork, R. (2022) Arkansas Space Grant Consortium. A first 2D gel of the venom of *Rabidosia rabida* (Walckenaer 1837) (Araneae: Lycosidae).
- Gooden, M. & Stork, R. (2023) Arkansas Academy of Science Undergraduate Research Fund: \$1500. Evaluation of the Cytotoxicity of Rabid Wolf Spider Venom on Cells from Different Taxonomic Groups.

### **PUBLICATIONS**

- Campbell, P.M., R.J. Stork, and A.G. Hug. 2020. The common feeder cockroach *Blattella germanica* shows increased transmission distance based on mode of acquisition of environmental bacteria. *Journal of the Arkansas Academy of Science* 74 (2020): 21-25.
- Hogland, B., R. Stork, and A. Hug. 2017. A description of variation in fecundity between two populations of the wolf spider *Rabidosia rabida* in Searcy Arkansas using brood size measurements. *Proceedings of the Arkansas Academy of Science*. 71(1): 47-50.

- Plummer, M.V., C.S. O’Neal, S.M. Cooper, and R. Stork. 2020. Red-bellied mudsnake (*Farancia abacura*) home ranges increase with precipitation in an isolated wetland. *Herpetological Conservation and Biology* 15(1): 160-168.
- Plummer, M.V., C.S. O’Neal, S.M. Cooper, R. Stork, N.E. Mills, A.B. McKinney. 2020. Leave or die: dispersal of red-bellied mudsnakes (*Farancia abacura*) from their home ranges in an isolated wetland. *Wetlands Conservation* (2020): 1-10.
- Plummer, M.V., C.S. O’Neal, R. Stork, S.M. Cooper, and A.B. McKinney. 2020. Leave or Die: Dispersal of Red-Bellied Mudsnakes (*Farancia abacura*) from their home ranges in an isolated wetland. *Wetlands*40(6): 2489-2498
- Rivera, P., R. Stork, and A. Hug. 2017. A First Look at the Microbiology of *Rabidosia rabida*, a Wolf Spider in Searcy, Arkansas. *Arkansas Academy of Science*. 71(1): 51-55.
- Stork, R. 2012. Intraspecific Variation in Thermal Biology of *Rabidosia rabida* (Araneae: Lycosidae) (Walackenaer 1837) from the Mountains of Arkansas. *Environmental Entomology*. 41(6): 1631-1637
- Stork, R., P. Smith, and S. Cooper. 2020. Observations of undescribed diel activity in the wolf spider *Rabidosia rabida* show cathemeral behavior. *Journal of the Arkansas Academy of Science* 74 (2020): 59-60.
- Stork, R., P. Smith, C. Aaen, and S. Cooper. 2021. Field observations of body temperature for the wolf spider *Rabidosia rabida* (Walckenaer 1837) (Araneae: Lycosidae) differ from reported lab temperature preference suggesting thermoconforming. *Environmental Entomology*.
- Stork, R. & S. Wilmsen. 2017. *Rabidosia rabida* (Araneae: Lycosidae) does not require venom injection to capture prey in the lab. *Journal of Arachnology*.

### **IN PREPERATION**

- Animal Physiology Lab, S. Cooper, and R. Stork. Variation in venom volume between reproductive states in the wolf spider *Rabidosia rabida* (Araneae: Lycosidae). In preparation for submission to the Proceedings of the Arkansas Academy of Science.
- Student TBD, S. Cooper, and R. Stork. The wolf spider *Rabidosia rabida* (Araneae: Lycosidae) builds silk enclosures in sweetgum trees at the GBRS. In preparation for the Proceedings of the Arkansas Academy of Science.

## DISSERTATION

Stork, R. 2011. Intra-Specific Variation across a Small Temperature Difference in the Spider *Rabidosa rabida* (Araneae: Lycosidae) from the Mountains in Arkansas. The University of Texas at Arlington. Ph.D. thesis

## Books

Stork, R. 2019. The Human Body for Nurses: the Lab Guide for BIOL 2400. HU Press. Searcy, Arkansas

Stork, R. 2019. The Human Body for Nurses 2: the Lab Guide for BIOL 2405. HU Press. Searcy, Arkansas

## PRESENTATIONS

2009 Fort Worth Texas Master Naturalists “Biogeography of *Loxosceles reclusa* the brown recluse in Texas”

2012 Earth & Sky Day Greenville, Illinois “Spiders of Illinois”

2016 Arkansas Academy of Science Meeting. “*Rabidosa rabida* (Araneae: Lycosidae) does not require venom to capture prey of a common size.”

2019 Arkansas Tech Biology Seminar. “Chasing the rabid wolf spider, the ecology of *Rabidosa rabida*”

## STUDENT POSTERS/PRESENTATIONS

2015. Sara Wilmsen: Arkansas Academy of Science (poster), Arkansas INBRE (poster), and Regional INBRE (won Award for oral presentation)

2016. Patty Rivera: McNair Program (oral presentation & poster)

2017. Brandon Hogland: Arkansas Academy of Science (oral presentation)

2017. Patty Rivera: Arkansas Academy of Science (oral presentation)

2018. Multiple INBRE & AAS Posters

2018. Brandon Hogland. INBRE (oral presentation)

2019. Brandon Hogland. Arkansas Space Grant Consortium (oral presentation)

2019. Payton Smith: Arkansas INBRE

Arkansas Space Grant Consortium student research grant awards: Brandon Hogland (2019), Emily Fronek (2022)

2021. Emily Brown: AAS oral presentation

2022 Emily Fronek: Arakans Space Grant Consortium annual meeting

2023 Martina Gooden AAS

2023 Brian Beto AAS

### **PROFESSIONAL MEMBERSHIPS**

2010-2011, Ecological Society of America

2011-2013, Illinois Academy of Science (ISAS) Zoology Division

2004-Present, American Arachnology Society (AAS)

2011-Present, Entomology Society of America (ESA)

2014-Present, Arkansas Academy of Science