

## SHALA J. HANKISON

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### EDUCATION

- 2006 Ph.D., Biological Sciences, Clemson University, Clemson, South Carolina  
1999 M.S., Department of Biological Sciences, Ohio University, Athens, Ohio  
1995 B.A., Department of Zoology, Ohio Wesleyan University, Delaware, Ohio

### APPOINTMENTS AND EMPLOYMENT HISTORY

- 2015-present Associate Professor in Zoology, Ohio Wesleyan University  
2009-2015 Assistant Professor in Zoology, Ohio Wesleyan University  
2007-08 Post-doctoral Associate, University of Illinois at Champaign-Urbana  
1995-97 Outreach Education Instructor, National Aquarium in Baltimore

### PUBLICATIONS (\*denotes OWU student or alum)

- 2016 S.J. Hankison & M.S. Palmer\*. Assays to detect UV-reflecting structures and determine their importance in mate preference using the sailfin molly *Poecilia latipinna*. JoVE (Journal of Visualized Experiments) e54453-e54453.
- 2016 T. Cannon\*, M. Heistermann, S. Hankison, M. McLennan, K. Hockings. Tailored Enrichment Strategies and Stereotypic Behavior in Captive Individually-housed Macaques (*Macaca* spp.). Journal of Applied Animal Welfare Science
- 2014 M. S. Palmer\* & S.J. Hankison. Use of ultraviolet cues in female mate preference in the sailfin molly, *Poecilia latipinna*. Acta Ethologica 18 (2) 153-160.
- 2012 M.B. Ptacek & S.J. Hankison. Evolutionary diversification of mating signals in the Mexican sailfin mollies (Poeciliidae: *Poecilia: Mollienesia*). In: Viviparous Fishes II (M.C. Uribe and H. J. Grier, eds). Homestead, Florida: New Life Publications, Inc.
- 2012 S.J. Hankison & M.B. Ptacek. Geographic variation in genetic and morphological structure in the Mexican sailfin mollies, *Poecilia velifera* and *P. petenensis*. In: Viviparous Fishes II (M.C. Uribe and H. J. Grier, eds). Homestead, Florida: New Life Publications, Inc.
- 2011 Y.O. Sanogo, S.J. Hankison, D. Xie, M. Band, A. Obregon, A. Bell. Brain transcriptomic response of threespine stickleback (*Gasterosteus aculeatus*) to cues of a predator. Brain, Behavior, and Evolution 77 (4): 270-285.
- 2011 A.M. Bell, Dingemanse, N., Hankison, S.J., Langerhof, M., Rollins, K. Early exposure to non-lethal predation risk by size-selective predators increases somatic

- growth and decreases size at adulthood in threespined sticklebacks. *Journal of Evolutionary Biology* 24(5) 943-953.
- 2009 A.M. Bell, S.J. Hankison, & K.L. Laskowski. The repeatability of behaviour: a meta-analysis. *Animal Behaviour* 77:771-783.
- 2009 M.B. Ptacek & S.J. Hankison. The pattern and process of speciation. *In: Evolution: the first four billion years* (M. Ruse & J. Travis, eds). Harvard University Press.
- 2008 S.J. Hankison & M.B. Ptacek. Geographic variation of genetic and phenotypic traits in the Mexican sailfin mollies, *Poecilia velifera* and *P. petenensis*. *Molecular Ecology* 17:2219-2233.
- 2007 S.J. Hankison & M.B. Ptacek. Comparing mating behaviors in the Mexican sailfin mollies *Poecilia velifera* and *Poecilia petenensis*. *Ethology* 113:802-812.
- 2006 S.J. Hankison, M.J. Childress, J.J. Schmitter-Soto, & M.B. Ptacek. Morphological divergence within and between the Mexican sailfin mollies, *Poecilia velifera* and *P. petenensis*. *Journal of Fish Biology* 68:1610-1630.
- 2003 S.J. Hankison & M.R. Morris. Avoiding a compromise between sexual selection and species recognition: female swordtail fish assess multiple species-specific cues. *Behavioral Ecology* 14(2): 282-287.
- 2003 R.E. Lee, Jr. & S.J. Hankison. Acquisition of freezing tolerance in early autumn and seasonal changes in gall water content influence inoculative freezing of gall fly larvae, *Eurosta solidaginis* (Diptera, Tephritidae). *Journal of Insect Physiology* 49: 385-393.
- 2002 S.J. Hankison & M.R. Morris. Sexual selection and species identification in the pygmy swordtail, *Xiphophorus pygmaeus*: conflicting preferences. *Behavioral Ecology and Sociobiology* 51: 140-145.

### Manuscripts in progress

K.V. Summers\* & S.J. Hankison. Influence of Social Behavior on Asian Elephant (*Elephas Maximus*) Dusting in Captivity.

### GRANTS and SCHOLARSHIPS

- 2015 Theory to Practice Grant (TPG) on the Influence of Courtship behaviors on Paternity in the Sailfin Molly, *Poecilia latipinna*
- 2013 Thomas E. Wenzlau (TEW) Grants for Faculty. Enhancement of Animal Behavior Classroom Exercises through the Use of the State-of-the-Art Recording Software, "The Observer."
- 2011 National Science Found (NSF) Grant Collaborator, "Maternal and paternal effects on behavior in threespined sticklebacks" with Alison Bell and Katie McGhee.
- 2011 Thomas E. Wenzlau (TEW) Grants for Faculty. Use of a new DNA sequencing technique in the identification and use of major histocompatibility complex (MHC) molecules in fishes. Tami Panhuis, Co-PI.

- 2010 Theory to Practice Grant (TiPiT). Does the MHC complex influence female mating preferences in livebearing fish, *Poecilia latipinna*? Tami Panhuis, Co-PI.
- 2008 Postdoctoral Research Leave Fellowship, American Association of University Women
- 2005 P.E.O. Scholar Award
- 2005 Wade Stackhouse Graduate Fellowship
- 2004-2005 Clemson University Graduate Student Association Travel Awards (multiple)
- 2003 Sigma Xi Grants In Aid of Research

### AWARDS

- 2016 Sherwood Dodge Shankland Award for Encouragement of Teachers, Ohio Wesleyan University
- 2005 Best Graduate Student Presentation, Natural Resources Research Symposium, Clemson University
- 2004 R.C. Edwards Outstanding Graduate Assistant Award (for Teaching and Research) Clemson University

### PROFESSIONAL PRESENTATIONS

- 2017 K. Summers\* & S.J. Hankison. Elephant dusting: an example of behavioral influences. *Animal Behavior* (regional conference, poster)
- 2014 S. Gorbett\* & S.J. Hankison. Social behavior and sex ratio in *Poecilia latipinna*. IV International Symposium on Viviparous Fishes (invited talk)
- 2014 S. Gorbett\* & S.J. Hankison. Impact of male-female ratio on male behaviors in *Poecilia latipinna*. *The Society for the Study of Evolution* (poster)
- 2012 C.A. Smith\*, L Tuhela-Reuning & S.J. Hankison. A morphological study of the gonopodia of the Mexican sailfin mollies, *Animal Behavior* (regional conference, poster)
- 2011 M.S. Palmer\* & S.J. Hankison. Ultraviolet vision and mate choice in the sailfin molly. *Society for Integrative and Comparative Biology* (poster)
- 2008 A.M. Bell, S.J. Hankison & K. Laskowski. The repeatability of behavior: a meta analysis. *International Society of Behavioral Ecology* (poster)
- 2007 S.J. Hankison. Understanding population divergence in the Mexican sailfin mollies, *Animal Behavior Society* (contributed talk)
- 2006 S.J. Hankison & M.B. Ptacek. Geographical variation in morphological and population and population genetic structure in the Mexican sailfin mollies, III International Symposium on Viviparous Fishes (1<sup>st</sup> author on poster, 2<sup>nd</sup> author on invited talk)
- 2006 S.J. Hankison. Geographical variation in population genetic structure in the Mexican sailfin mollies, *Southeastern Population Ecology and Evolutionary Genetics* (poster)
- 2006 S.J. Hankison. Variation in alternative male mating behaviors in Mexican sailfin mollies. *Animal Behavior Society* (contributed talk)

- 2005 S.J. Hankison. Population divergence in the Mexican sailfin mollies. The Society for the Study of Evolution (contributed talk)
- 2005 S.J. Hankison. Population divergence in the Mexican sailfin mollies, *P. velifera* and *P. petenensis*. Southeastern Ecology and Evolution Conference (poster)
- 2005 S.J. Hankison. Fish, genetics, and what males like: studying sexual selection, population genetics, and conservation at Clemson University. Teacher's workshop on genetics and biotechnology (invited talk).
- 2004 S.J. Hankison. Population divergence in behavior in Mexican sailfin mollies. Southeastern Ecology, Population Genetics, and Evolution (contributed talk)
- 2004 H. Rodd, A. Price, S.J. Hankison, W.M. Greggs III, S.C. Darley, M. Childress & M.B. Ptacek. Is the guppy's sensory bias for orange a pre-existing bias? The Society for the Study of Evolution (poster)
- 2004 S.J. Hankison & M.B. Ptacek. Comparative study of three species of Mexican sailfin mollies. Animal Behavior Society (contributed talk)
- 2004 S.J. Hankison. Population divergence in morphology in the Mexican sailfin mollies *Poecilia velifera* and *P. petenensis*. Southeastern Ecology and Evolution (contributed talk)
- 2003 S.J. Hankison. The role of geography and sexual selection in explaining morphological divergence among populations of Mexican sailfin mollies, The Society for the Study of Evolution (poster)
- 2002 S.J. Hankison. Intraspecific population variation and population divergence in Mexican Sailfin Mollies, South Eastern Ecology, Population Genetics, and Evolution (contributed talk)
- 2001 S.J. Hankison & R.E. Lee. Water content of the gall regulates susceptibility to inoculative freezing in larvae of the goldenrod gall fly, *Eurosta solidaginis*, Society for Integrative and Comparative Biology, Chicago, IL. American Zoologist 40(6): 1045. (poster)
- 2000 S.J. Hankison & M.R. Morris. Minimizing mistakes in species recognition, Animal Behavior Society (contributed talk)
- 1999 S.J. Hankison & M.R. Morris. Sexual selection and species identification in *Xiphophorus pygmaeus*, Animal Behavior Society (contributed talk)

## SERVICE

- 2018- Faculty Personnel Committee
- 2015- Faculty partner for the women's golf team
- 2015- Membership Committee, Sigma Xi (Scientific Research Society)
- 2016-2018 Chair, Department of Zoology
- 2016-2018 Student Symposium Organizer
- 2017 Hiring committee for Athletic Director
- 2016-17 Animal Behavior Society Student Grant Reviewer
- 2016-17 Committee on Women and Gender
- 2015-16 Howard Hughes Medical Institute OWU grant proposal group
- 2010-16 OWU Committee on Teaching, Learning, and Cross-Cultural Programs (chair 2013-14)

2016 Vern Parish Award Student Grant reviewer  
2015 Hiring committee for VP for Student Engagement and Success  
2015 OWU Strategic Retention Planning Group  
2009-15 OWU Science Lecture Series Coordinator  
2011-14 OWU Committee on Honorary Degrees

**Reviewer:** (Journals) *Animal Behaviour*, *Behavioral Ecology*, *Behavioral Ecology and Sociobiology*, *Behaviour*, *Biological Journal of the Linnean Society*, *BMC Evolutionary Biology*, *Copeia*, *Ecology of Freshwater Fish*, *Ethology*, *Integrative and Comparative Biology*, *Journal of Fish Biology*; (Book Chapters) *Animal Behavior: Concepts, Processes, and Applications*, *Principles of Life*, 2nd edition-chapters 2 and 20, *Evolution: Making Sense of Life*-chapter 12; (Grants) Vern Parish (American Livebearer's Association), Animal Behavior Society Student Research Awards

### **PROFESSIONAL SOCIETIES**

Society for the Study of Evolution	Sigma Xi
Animal Behavior Society	American Livebearers Association