

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

EMPLOYMENT HISTORY

2015-present **Associate Professor in Zoology/Biology**, Ohio Wesleyan University
2009-2015 **Assistant Professor in Zoology**, Ohio Wesleyan University
2007-08 **Post-doctoral Associate/Fellow**, University of Illinois at Champaign-Urbana
1999-01 **Laboratory Technician**, Cryo-physiology, Miami University, Oxford, Ohio
1995-97 **Outreach Education Instructor**, National Aquarium in Baltimore

PUBLICATIONS (*denotes OWU student or alum)

2025 C. Perry, M. Gifford, F. Aubret, A. Chaine, S. Hankison, E.H. Livingston*, M. Moore*, E.J. Gangloff. Feeding impacts thermoregulatory behavior and consistency across day and night in a diurnal lizard. *Behavioral Ecology* 36(4)

2025 M.M. Moore*, E.G. Foster*; A. Amer*, L. Fraire*. A. Head*. A. Blanchette*; S.J. Hankison; A.R. Gunderson; E.J. Gangloff. Urban wall lizards are resilient to high levels of blood lead. *Environmental Research* 264, 120248

2022 S. Hankison, E. J. Gangloff, B. Fry*, A. Arnold*, A.J. Lashway*, J.M. Betts*, S.D. Otap*, K. Walter*, M.Y. Juergens*, A. Crawford*, Effects of reliance on stored sperm on reproduction in the sailfin molly *Poecilia latipinna*. *Journal of Fish Biology* 101 1628-1633

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* 19(2), 171-182.

2015 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. Within and between species variation in male mating behaviors in the Mexican sailfin mollies *Poecilia velifera* and *P. 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.

GRANTS and SCHOLARSHIPS

2022 Thomas E. Wenzlau (TEW) Grants for Faculty. TEW proposal (with Tami Panhuis) to fund conference travel to the 9th International Conference of Poeciliid Biologists in the Netherlands.

2019 American Association of University Women -PPG STEM Ambassador Grant “Promoting success in STEM through peer-mentorship.”

2019 Mellon Digital Scholarship Faculty Grant: “Enhancing Ohio Wesleyan University’s Brant Museum of Zoology through Digital Collections and Archiving” (Lisa Tabek and Josh Pletcher, Co-PIs)

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. 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

2022 Bishop Herbert Welch Meritorious Teaching Award, Ohio Wesleyan University

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

PRESENTATIONS (*denotes OWU student or alum)

2024 I-cubed lecture, The Evolution of Dogs, Accidental Best Friends; Ohio Wesleyan University

2022 S. Hankison, E. J. Gangloff, B. Fry*, A. Arnold*, A.J. Lashway*, J.M. Betts*, S.D. Otap*, K. Walter*, M.Y. Juergens*, A. Crawford*, Effects of reliance on stored sperm on reproduction in the sailfin molly *Poecilia latipinna*. 9th International Conference of Poeciliid Biologists (poster)

2021 A. Arnold*, K. Walter*, M. Juergens*, S. Otap*, A.J. Lashway*, & S. Hankison. Maternal allocation to offspring comparing recently mated and stored sperm derived broods in *Poecilia latipinna*. Indiana University Animal Behavior Conference and Animal Behavior Virtual Conference (posters).

2017 I-cubed, Tinder for Fish, Ohio Wesleyan University

2017 K. Summers* & S.J. Hankison. Elephant dusting: an example of behavioral influences. Indiana University Animal Behavior 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, Indiana University Animal Behavior 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 (1st author on poster, 2nd 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)

UNIVERSITY SERVICE

2024-present Academic Status Committee

2024-present CASA; Committee on Academic Support and Advising

2022-present Vern Parish Award Student Grant reviewer (American Livebearers Association)

2022-2024 Moving the Needle Holistic Advising Co-chair

2022-2024 Executive Committee (chair 2022-24)

2022-2024 Peer Mentor for Term and Part-time faculty

2023 Chemistry Search Committee

2022 OWU Spring Student Symposium Organizer (with Lisa Ho)

2021-2024 OWU JED team member

2021-2025 Faculty-Trustee Liaison Committee

2021-present Faculty Marshall

2021 Physics Search Committee

2021 Inclusion Advocate Training

2019-present TLI/TEW Committee

2016-present Animal Behavior Society Student Grant Reviewer

2015-present Faculty partner for the women's golf team

2015-present Membership Committee, Sigma Xi (Scientific Research Society)

2009-present Columbus Zoo and Aquarium Faculty Liaison

2019-2020 OWU Magazine Editorial board (2019-2020)

2018-2021 Faculty Personnel Committee

2016-2018 Chair, Department of Zoology

2016-2018	Student Symposium Organizer
2017-20	OWU Committee on Honorary Degrees
2017	Hiring committee for Athletic Director
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)
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

Animal Behavior Society

Sigma Xi

Society for the Study of Evolution

American Livebearers Association

American Association of University Women