

Curriculum Vitae

Jessie C. Tanner

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EDUCATION

- 2012-present **Ph.D. Ecology, Evolution, and Behavior**, University of Minnesota Twin Cities
(expected August 2018)
Co-advisers: Dr. Mark Bee and Dr. Marlene Zuk
- 2007-2012 **B.S. Zoology and Biomedical Sciences**, *Magna cum laude*, University of Oklahoma
Thesis title: Precopulatory Interactions in a *Hyaella* Amphipod
- 2007-2012 **B.A. French**, *Magna cum laude*, University of Oklahoma
Thesis title: *Observation et allégorisation: le comportement des animaux et des images de renouvellement dans les bestiaires médiévaux* (Observation and Allegory: Animal Behavior and Images of Renewal in the Medieval Bestiaries)
- 2009-2010 Academic year abroad studying Linguistics, French History and Literature, Université Michel-de-Montaigne, Bordeaux, France

RESEARCH INTERESTS

Sexual selection, behavioral plasticity, acoustic communication, multicomponent/multimodal signaling

PROFESSIONAL EXPERIENCE

- Fall 2017 **Laboratory Instructor**,
EEB 3411: Animal Behavior, College of Biological Sciences, University of Minnesota Twin Cities, Saint Paul, MN
- 2015-2016 **Laboratory Instructor**,
BIOL 1003: Evolution and Biology of Sex, College of Biological Sciences, University of Minnesota Twin Cities, Minneapolis, MN
- Fall 2012 **Laboratory Instructor**,
BIOL 2002: Foundations of Biology Research Lab, College of Biological Sciences, University of Minnesota Twin Cities, Saint Paul, MN
- 2012 **Field/Laboratory Technician**,
Animal Communication Lab, University of Minnesota Twin Cities, Saint Paul, MN
- 2010-2012 **Collection Technician**,
Recent Invertebrates Department, Sam Noble Oklahoma Museum of Natural History, Norman, OK
- 2011-2012 **Research Assistant**
“Investigating a pre-existing sensory bias for swordtails in the Amazon molly, *Poecilia formosa*.” Adviser: Dr. Ingo Schlupp

- Summer 2011 **Research Assistant**
 “Masculinizing effects of cortisol on the Amazon molly, *Poecilia formosa*,” with Drs. Edie Marsh-Matthews, Rosemary Knapp and Ingo Schlupp
- 2009-2010 **Collection Manager’s Assistant**,
 Herpetology Department, Sam Noble Oklahoma Museum of Natural History, Norman, OK
- 2008-2009 **Flight Instructor**,
 Riverside Flight Center, Tulsa, OK.
 Taught procedures and maneuvers pertinent to the private and commercial pilot licenses and instrument ratings in both airplanes and simulators. (Summer and winter breaks)

GRANTS AND FELLOWSHIPS

Amounts in US dollars

- 2018 **NSF Postdoctoral Research Fellowship in Biology** (\$207,000)
- 2017 Joyce Davenport Fellowship in Natural History – Bell Museum (\$2,500)
- 2017 **NSF Doctoral Dissertation Improvement Grant – IOS** (\$17,222)
- 2016 Dayton Family Fellowship in Natural History – Bell Museum (\$1,343)
- 2016 UMN Graduate School Thesis Research Travel Grant (\$2,500)
- 2016 Theodore J. Cohn Research Grant – Orthopterists’ Society (\$1,492)
- 2016 Animal Behavior Society Student Research Grant (\$2,500)
- 2015 Travel Grant – University of Minnesota EEB (\$1,000)
- 2014 Travel Grant – Minnesota Graduate and Professional Student Association (\$200)
- 2014 Travel Grant – University of Minnesota Council of Graduate Students (\$800)
- 2013 Helen T. and Frederick M. Gaige Award – American Society of Ichthyologists and Herpetologists (\$500)
- 2013 Research Grant – Minnesota Herpetological Society (\$997)
- 2013-present **NSF Graduate Research Fellowship** (\$132,000)
- 2013-present **Ford Foundation Pre-Doctoral Fellowship** (\$66,000)

PUBLICATIONS

- Ditmer, MA, LK Werden, **JC Tanner**, JB Vincent, PA Iazzo, TG Laske, and DL Garshelis. *Submitted*. Bears habituate to the repeated exposure of a novel stimulus, unmanned aerial vehicles. *Biology Letters*.
- Olzer, RM, R Ehrlich, JL Heinen-Kay, **JC Tanner**, and M Zuk. Insect Reproductive Behavior. In *Insect Behavior: from mechanisms to ecological and evolutionary consequences*. Alex Córdoba-Aguilar, Daniel González-Tokman, and Isaac González-Santoyo, eds. Oxford: Oxford University Press. *In Press*.
- Tanner, JC**, JL Ward, RG Shaw, and MA Bee. 2017. Multivariate phenotypic selection on a sexual signal. *Evolution* 71(7): 1742-1754.
- Zuk, M, **JC Tanner**, E Schmidtman, MA Bee, and S Balenger. 2017. Calls of Recently Introduced Coquí Frogs Do Not Interfere with Cricket Phonotaxis in Hawaii. *Journal of Insect Behavior* 30(1): 60-69.
- Ward, JL, EK Love, AT Baugh, NM Gordon, **JC Tanner**, and MA Bee. 2015. Progesterone and prostaglandin F2 α induce species-typical female preferences for male sexual displays in Cope's gray treefrog (*Hyla chrysoscelis*). *Physiology & Behavior* 152 (2015): 280-287.
- Werden, LK, JB Vincent, **JC Tanner**, and MA Ditmer. 2015. Not quite free yet: clarifying UAV regulatory progress for ecologists. *Frontiers in Ecology and Evolution* 13(10): 534-535.

- Ditmer, MA, JB Vincent, LK Werden, **JC Tanner**, TG Laske, PA Iazzo, DL Garshellis, and JR Fieberg. 2015. Bears show a physiological but limited behavioral response to unmanned aerial vehicles. *Current Biology* 25: 1-6.
- Makowicz, AM, **JC Tanner**, E Dumas, and I Schlupp. 2015. Pre-existing biases for swords in mollies (*Poecilia*). *Behavioral Ecology* 27(1): 175-184. doi:10.1093/beheco/arv130

PRESENTATIONS

- 2018 **Tanner, JC**. Sexual Selection Constrained: the effects of within-individual variation and behavioral plasticity on female preference expression in treefrogs and field crickets. University of Wisconsin, Milwaukee, EEB Journal Club. February 9, 2018.
- 2017 **Tanner, JC**. Measuring multivariate selection on animal signals. Hamline University Mathematics Seminar, Saint Paul, MN. November 7, 2017. Invited speaker.
- Tanner, JC** and MA Bee. The expression of female preferences in natural signaling contexts. International Bioacoustics Congress, Haridwar, India. October 4, 2017. Invited talk in symposium: "Acoustic Communication, Reproductive Systems, and Sexual Selection."
- Tanner, JC**. Sexual Selection Constrained. University of Nebraska Ecology, Evolution, and Behavior Seminar, Lincoln, NE. September 15, 2017. Invited speaker.
- Tanner, JC** and MA Bee. Sources of noise-induced error in animal communication. Society for Integrative and Comparative Biology, New Orleans, LA. January 7, 2017. Oral paper.
- 2016 **Tanner, JC** and MA Bee. Sources of noise-induced error in *Hyla chrysoscelis*, Cope's gray treefrog. Animal Behavior Society, Columbia, MO. August 3, 2016. Oral paper.
- 2016 **Tanner, JC** and MA Bee. Multivariate phenotypic selection on a sexual signal. Society for the Study of Evolution, Austin, TX. June 19, 2016. Oral paper.
- 2015 **Tanner, JC**, JL Ward, and MA Bee. Multivariate selection on the advertisement call of the gray treefrog, *Hyla chrysoscelis*. American Society of Ichthyologists and Herpetologists, Reno, NV. July 17, 2015. Oral paper.
- 2014 **Tanner JC**, JL Ward, and MA Bee. Measuring non-linear selection on the advertisement call of the gray treefrog, *Hyla chrysoscelis*. Animal Behavior Society, Princeton, NJ. August 13, 2014. Poster.
- Tanner JC**, JL Ward, and MA Bee. Multivariate selection on the advertisement call of a North American treefrog. International Society for Behavioral Ecology, New York, NY. August 2, 2014. Poster.

GUEST LECTURES

- November 15, 2017 U of Minnesota EEB 3411: Animal Behavior, Professor Mark Bee
- April 5, 2016 Saint Catherine University: Animal Behavior, Professor Susan Balenger
- Apr. 15, 2015 U of Minnesota EEB 3412W: Animal Behavior, Professor Emilie Snell-Rood
- Nov. 17, 2014 U of Minnesota EEB 3412W: Animal Behavior, Professor Mark Bee

BROADER IMPACTS

- April 2018 Judge: Minnesota State Science & Engineering Fair
- 2017-2018 Directed research mentor: Joshua Justison and Emily Johnson
- Scientific infrastructure: SynSing, a graphical user interface (GUI) for synthesizing animal signals in Matlab
- 2016-2017 Honors research mentor: Sachin Rao and Laura Garbe
- Senior thesis research mentor: Alec Scollard

Directed research mentor: Joshua Justison
 Directed research mentor: Emily Johnson
 Feb. 2017 Elementary school outreach, Southside Family School (Minneapolis): Amphibian
 Communication and Life Cycle
 Feb. 2016 STEM Fair Mentor: one-on-one science fair mentorship (design, data collection, analysis,
 and presentation) with five students at Chelsea Heights Elementary School (Saint Paul)
 2015-2016 Honors research mentor: Matt LaPrade
 2014-2015 Undergraduate research mentor: Patrick O'Hare and Nathan Indresano
 Aug. 2014 Animal Behavior Society Outreach Fair Presentation
 Feb. 2014 Anoka-Hennepin County STEM Fair Judge
 2013-2014 Undergraduate Research Opportunities Program Mentor: Margaret Tierney
 Aug. 2013 Animal Behavior Society Outreach Fair Presentation
 Spring 2013 Teaching SMART Volunteer and Session Leader: Pratt Community School
 Collaboration with undergraduate researcher: Kelia Axler
 January 2013 Anoka-Hennepin County STEM Fair Judge

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

2016-present Society for the Study of Evolution
 2015-present Orthopterists' Society
 2012-present Animal Behavior Society
 2012-present American Society of Ichthyologists and Herpetologists
 2012-present Minnesota Herpetological Society

PROFESSIONAL SERVICE

Ad hoc reviewer: *American Naturalist*, *Animal Behaviour*, *Behavioral Ecology and Sociobiology*,
Bioacoustics, *Biological Journal of the Linnean Society*
 2015 U. of Minnesota UROP Proposal Review Panel
 2014-present EEB Ethics and Aesthetics Committee
 2013-2014 Behavior Group Coordinator
 President, EEB Graduate Students
 2012-present EEB Social Committee (chair 2013-2016)

AVIATION CERTIFICATIONS

Commercial Pilot with Instrument Rating (2007; single-engine, land), Certified Flight Instructor and
 Certified Flight Instructor Instrument Rating (2008), Advanced and Instrument Ground Instructor (2008).