

Abigail A. Kimmitt, PhD

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EDUCATION

Indiana University, Bloomington, IN
Ph.D. in Ecology, Evolution, and Behavior
Exp. Graduation: May 2019

University of Mary Washington, Fredericksburg, VA
Bachelor of Science in Biology with Honors, 2013
Graduated Magna Cum Laude
Double Major in Environmental Science

RESEARCH EXPERIENCE

Doctoral Dissertation Research, 2013- 2019
Indiana University, Bloomington, Evolution, Ecology and Behavior Program (EEB)
Advisor: Dr. Ellen Ketterson
Project Title: Behavioral and physiological mechanisms of population divergence in seasonal sympatry

Undergraduate Honors Thesis Research, 2011-2013
University of Mary Washington, Department of Biology
Advisor: Dr. Andrew Dolby
*Project title: The effect of handling time on stress responses in the Tufted Titmouse (*Baeolophus bicolor*)*

NSF Research Experience for Undergraduates (REU) Internship, Summer 2012
Mountain Lake Biological Station, University of Virginia
Advisor: Dustin Reichard and Dr. Ellen Ketterson
Project Title: Predictors of courtship effort in male dark-eyed juncos

TEACHING EXPERIENCE

2017. **Principal Instructor.** *BIO-Z460*: Animal Behavior (42 students). Indiana University.
2015. Evidence-based teaching learning community. Center for Innovative Teaching and Learning. Indiana University.
2014, 2015. **Associate Instructor.** *BIO-L376*: Biology of Birds (18-30 students). Indiana University.
2013. **Associate Instructor.** *BIO-L111*: Introduction to Ecology and Evolution (12-25 students). Indiana University.

Guest Lectures

2019. "Speciation". *BIOL-214: Genes, Ecology, and Evolution*. Texas A&M University.
2019. "Learning and Mate Choice". *BIOL-467: Integrative Animal Behavior*. Texas A&M University.
2018. "Studying the role of migration in population divergence" *HIST-A379: The Evolution/Creation Controversy in Modern America*. Indiana University.
2016. "Mating Systems". *BIO-L376: Biology of Birds*. Indiana University.
2016. "Speciation". *BIO-L318: Evolution*. Indiana University.

Workshops

2018. "Student Centered Course Design". Indiana University. Co-led with Leslie Drane.
2017. "Make Lab Sessions Work". Indiana University. Co-led with Alexis Peirce Caudell.
2016. "Effective Lesson Design." Indiana University. Co-led with Dr. Katie Kearns.

PUBLICATIONS

- Justen, H.[†], **Kimmit, A.A.**[†], and Delmore, K.E. Estimating hybridization rates in the wild: easier said than done? *Under review at Evolution*.
- Kimmit, A.A.**, 2020. Females as the gatekeepers to seasonal breeding: what we can learn by studying reproductive mechanisms in both sexes. *Integrative and Comparative Biology*.
- Orr, T.J., Burns, M., Hawkes, K., Holekamp, K.E., Hook, K.A., Josefson, C.C., **Kimmit, A.A.**, Lewis, K., Lipshutz, S.E., Lynch, K.S., Sirot, L.K., Stadtmauer, D.J., Staub, N.L., Wolfner, M.F. and Hayssen, V. 2020. It takes two to tango: including a female perspective in reproductive biology. *Integrative and Comparative Biology*.
- Singh, D., Reed, S.M.* , **Kimmit, A.A.**, Alford, K.A. and Ketterson, E.D., 2020. Breeding at higher latitude as measured by stable isotope is associated with higher photoperiod threshold and delayed reproductive development in a songbird. *Hormones & Behavior*. *Under revision*.
- Kimmit, A.A.**, Webb, A.L.* , Greives, T.J. and Ketterson, E.D., 2020. Migrant and resident female songbirds differ in gonadal response to upstream stimulation during seasonal sympatry. *General and Comparative Endocrinology*, p.113469.
- Kimmit, A.A.**, Sinkiewicz, D.M. and Ketterson, E.D., 2020. Seasonally sympatric songbirds that differ in migratory strategy also differ in neuroendocrine measures. *General and comparative endocrinology*, 285, p.113250.
- Kimmit, A.A.**, Hardman, J* , Ketterson, E.D. 2019. Migratory strategy explains differences in female physiology in seasonally sympatric populations. *Functional Ecology*.
- Kimmit, A.A.**, Dietz, S.L.* , Reichard, D.G., and Ketterson, E.D. Male courtship preference during seasonal sympatry may reinforce population divergence. 2018. *Ecology and Evolution* 8(23), pp.11833-11841.
- Reichard, D.G., **Kimmit, A.A.**, Welklin, J.F. and Ketterson, E.D., 2017. Condition-and context-dependent factors are related to courtship behavior of paired and unpaired males in a socially monogamous songbird. *The Auk*, 134(3), pp.575-586.

[†] Indicates co-first author

* Indicates undergraduate co-author

O'Dell, D.A., Carlo, M.A., **Kimmitt, A.**, Bikowski, E., Morris, K.R. and Dolby, A., 2014. A comparison of techniques measuring stress in birds. *Virginia Journal of Science*, 65(3), p.3.

GRANTS

2019. American Genetics Association Evolutionary, Ecological, or Conservation Genomics (EECG) Research Award (\$8,000)
2019. Texas A&M Schubot Center Research Mini-grant (\$2,472)
2017. Animal Behavior Society Student Research Grant (\$1,000)
2017. Mountain Lake Biological Station Fellowship: Johns Creek Endowment Fund (\$1,000)
2017. Louis Constable Hoover Fellowship (\$1,500)
2016. American Ornithological Union Research Award (\$2,057)
2015. Indiana Academy of Science Senior Research Award (\$2,551)
2015. Indiana University Research and Teaching Preserve Research Grant (\$500)

FELLOWSHIPS

2017. The Avian, Wildlife, and Habitat Studies Scholarship (\$10,883)
2017. Center for the Integrative Study of Animal Behavior (CISAB) Fellowship (\$3,880)
2015. National Science Foundation: Graduate Research Fellowship (GRFP) (\$136,000)

AWARDS

2018. Center for the Integrative Study of Animal Behavior William J. Rowland Mentoring Award
2018. Provost Women in Science Travel Award
2018. Center for the Integrative Study of Animal Behavior Travel Award
2017. Provost Women in Science Travel Award
2016. Provost Women in Science Travel Award
2016. Center for the Integrative Study of Animal Behavior Travel Award
2015. Society for the Study of Evolution Travel Award
2015. Provost Women in Science Travel Award
2015. IU Biology Enrichment Travel Fund
2014. Provost Women in Science Travel Award
2014. Center for the Integrative Study of Animal Behavior Travel Award

INVITED PRESENTATIONS

Kimmitt, A.A., D.M. Sinkiewicz, and E.D. Ketterson. Female songbirds that differ in migratory

strategy also differ in neuroendocrine measures in early spring. “*Reproduction: the female perspective from an integrative and comparative approach*” symposium. Society for Integrative and Comparative Biology. Austin, TX. January 2020.

Kimmit, A.A., S.L. Dietz*, D.G. Reichard, and E.D. Ketterson. Understanding population divergence in seasonal sympatry via behavior and physiology of the understudied sex. Ohio Wesleyan University. Delaware, OH. November 2016.

ORAL PRESENTATIONS

Kimmit, A.A. and E.D. Ketterson. Migratory phenotype explains differences in female physiology in seasonally sympatric populations. *Causes and Consequences of Partial Migration Symposium*. International Ornithological Congress. Vancouver, British Columbia. August 2018.

Kimmit, A.A., S.L. Dietz*, D.G. Reichard, and E.D. Ketterson. Male courtship preference is potentially adaptive in seasonally sympatric population divergence. IU CISAB Animal Behavior Conference. Bloomington, IN. April 2018.

Kimmit, A.A. and E.D. Ketterson. Differences in female reproductive timing may contribute to divergence in seasonally sympatric populations. Society for Integrative and Comparative Biology. San Francisco, CA. January 2018.

Kimmit, A.A., S.L. Dietz*, D.G., Reichard, and E.D. Ketterson. Male mate preference may reinforce population divergence in seasonally sympatric species. Society for Integrative and Comparative Biology. New Orleans, LA. January 2017.

Kimmit, A.A. and E.D. Ketterson. Do female differences in reproductive timing alter gene flow in heteropatric populations? Society for Integrative and Comparative Biology. Portland, OR. January 2016.

POSTER PRESENTATIONS

Kimmit, A.A. and E.D. Ketterson. Do differences in female reproductive timing influence gene flow in seasonal sympatry? North American Ornithological Conference. Washington, D.C. August 2016.

Kimmit, A.A. and E.D. Ketterson. Heteropatric speciation: How females weigh morphology and phenology when choosing mates. Guarujã, Brazil. June 2015.

Kimmit, A.A., S.L. Dietz*, and E.D. Ketterson. Does male preference play a role in subspecies divergence? Society for Integrative and Comparative Biology. January 2015.

Dietz, S.L.* **A.A. Kimmit**, and E.D. Ketterson. No conflict between extra-pair courtship and male parental behavior detected in a socially monogamous songbird. Society for Integrative and Comparative Biology. January 2015.

Kimmit, A.A. and E.D. Ketterson. Heteropatric Speciation: picking a mate over space and time. Evolution. Raleigh, NC. June 2014.

Kimmit, A.A., A.S. Dolby, M.A. Carlo, D.A. O’Dell. Handling prior to blood sampling related to corticosterone but not to heat shock protein 60 in the Tufted Titmouse. Society for Integrative and Comparative Biology. Austin, TX. January 2014.

* Indicates undergraduate co-author

Kimmitt, A.A., D.G. Reichard, J.F. Welklin, and E.D. Ketterson. Differential courtship effort by mated and unmated males in a free-living songbird. Society for Integrative and Comparative Biology. San Francisco, CA. January 2013.

UNDERGRADUATE MENTORING

Mira Woods, Texas A&M University Undergraduate (2020-present)
Ashley Alairo, Texas A&M University Undergraduate (2019-present)
Susan Reed, Indiana University undergraduate. Honor Thesis Writing Mentor (2018)
Ashlee Webb, NSF REU, Center for the Integrative Study of Animal Behavior (CISAB), Indiana University, Bloomington (2017)
Katelyn Doyle, Cox Scholar, Indiana University undergraduate (2015-2019); *Awarded IU Research and Teaching Preserve Grant (2018) (\$1250.00)*
Jack Hardman, Indiana University undergraduate (2015-2017)
Danielle (Howard) Williams, Indiana University undergraduate (2015)
Samantha Dietz, NSF REU at Mountain Lake Biological Station (2014)

SERVICE

2018. Faculty Recruitment Student Committee. Indiana University.
2019. Graduate Research Fellowship (GRFP) Workshop Panelist. CIRTL Institution.
2015-present. Planning Committee for Animal Behavior Conference. Indiana University.
2014, 2016, 2017. Graduate Recruitment Weekend Host. Indiana University.

JOURNAL REVIEWS

Animal Behavior
Behavioral Ecology
Naturwissenschaften
Wilson Journal of Ornithology

OUTREACH

2020. Volunteer at Texas A&M Ecology and Evolutionary Biology Darwin Day Event.
2019. Wabash Valley Audubon Bird Festival Volunteer. Terre Haute, IN.
2018. Bloomington Bird Fest Volunteer. Bloomington, IN.
2017- present. SciU Blog Writer. Indiana University.
2015-17. "Studying songbirds as a field biologist". WonderLab Science Camp. Bloomington, IN.
2015, 2017, 2018. ScienceFest Volunteer. Indiana University.
2014. Mentoring high school student in a research class. Harmony School. Bloomington, IN.
2014. ESA Seeds Program. Mountain Lake Biological Station, University of Virginia.
2014. Undergraduate mentoring in high school lesson design. Z460 Animal Behavior Course.

Indiana University.