

EDUCATION

Indiana University, Bloomington, IN
Ph.D. in Ecology, Evolution, and Behavior, July 2019

University of Mary Washington, Fredericksburg, VA
Bachelor of Science in Biology with Honors, May 2013
Double Major in Environmental Science

RESEARCH EXPERIENCE

Postdoctoral Research Associate, 2019-present
Texas A&M University, Department of Biology
Advisor: Dr. Kira Delmore
Project title: Molecular basis of divergent migratory behavior in a songbird hybrid zone

Doctoral Dissertation Research, 2013- 2019
Indiana University, Bloomington, Evolution, Ecology and Behavior Program (EEB)
Advisor: Dr. Ellen Ketterson
Project Title: Physiological and behavioral 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

PUBLICATIONS

† Indicates co-first author, * Indicates undergraduate co-author

9. Justen, H.[†], **Kimmitt, A.A.**[†], and Delmore, K.E. 2020. Estimating hybridization rates in the wild: easier said than done? *Evolution*. *In press* <https://doi.org/10.1111/evo.14082>
8. **Kimmitt, 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*. *In press*. <https://doi.org/10.1093/icb/icaa095>

7. 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*. *In press*. <https://doi.org/10.1093/icb/icaa084>
6. **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*, 293, p.113469.
5. **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.
4. **Kimmit**, A.A., Hardman, J.W.*, Stricker, C.A. and Ketterson, E.D., 2019. Migratory strategy explains differences in timing of female reproductive development in seasonally sympatric songbirds. *Functional Ecology*, 33(9), pp.1651-1662.
3. **Kimmit**, A.A., Dietz, S.L.* , Reichard, D.G., and Ketterson, E.D., 2018. Male courtship preference during seasonal sympatry may reinforce population divergence. *Ecology and Evolution* 8(23), pp.11833-11841.
2. 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.
1. O'Dell, D.A., Carlo, M.A., **Kimmit**, 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

- 2020. 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 AND AWARDS

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

INVITED PRESENTATIONS

* Indicates undergraduate co-author

- Kimmit, 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

* Indicates undergraduate co-author

- 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

* Indicates undergraduate co-author

- 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. Guarujá, 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.

Kimmit, 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.

TEACHING EXPERIENCE

2017. **Instructor of Record.** *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.

2018. "Make Lab Sessions Work". Indiana University. Co-led with Alexis Peirce Caudell.

2016. "Effective Lesson Design." Indiana University. Co-led with Dr. Katie Kearns.

UNDERGRADUATE MENTORING

Mira Woods, Texas A&M University Undergraduate (2020)

Ashley Alairo, Texas A&M University Undergraduate (2019-2020)

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, University of Virginia (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, Integrative and Comparative Biology,
Naturwissenschaften, Wilson Journal of Ornithology

OUTREACH

2020. Co-designed a case study activity for Birds Canada Motus Wildlife Tracking System Education.
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- 2019. 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. Mentoring undergraduates in lesson design for AP Biology. Indiana University.