



Abigail A. Kimmitt

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Hofstra University

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Education

July 2019	Indiana University, Bloomington <i>PhD in Evolution, Ecology, and Behavior</i>
May 2013	University of Mary Washington <i>BS in Biology and Environmental Science with Honors</i>

Appointments & Experience

2024–	Assistant Professor Department of Biology, Hofstra University
2021–2024	Postdoctoral Fellow Department of Ecology and Evolutionary Biology, University of Michigan <i>Advised by Dr. Benjamin Winger</i>
2021	Postdoctoral Research Associate Department of Ecology and Conservation Biology, Texas A&M University <i>Advised by Dr. Jacquelyn Grace</i>
2020–2021	Postdoctoral Research Associate Department of Biology, Texas A&M University <i>Advised by Dr. Kira Delmore</i>
2013–2020	Graduate Student Department of Biology, Indiana University <i>Advised by Dr. Ellen Ketterson</i>
2012	NSF Research Experience for Undergraduates (REU) Internship Mountain Lake Biological Station, University of Virginia <i>Advised by Dr. Dustin Reichard and Dr. Ellen Ketterson</i>

Fellowships, Grants, and Awards

Fellowships

2017	The Avian, Wildlife, and Habitat Studies Scholarship	\$10,883
2017	Center for the Integrative Study of Animal Behavior Fellowship	\$3,880
2015–2019	National Science Foundation: Graduate Research Fellowship	\$136,000

Research 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		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	\$500

Honors and Awards

2023		Elective Member, American Ornithological Society
2022		UMPDA Postdoc Conference Award
2017		Center for the Integrative Study of Animal Behavior William J. Rowland Mentoring Award
2015		Society for the Study of Evolution Travel Award
2015		Indiana University Biology Enrichment Travel Fund
2014–2017		Provost Women in Science Travel Award
2014, 2016		Center for the Integrative Study of Animal Behavior Travel Award

Publications

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

Published

18. **Kimmit, A.A.**, Pegan, T.M., Jones A.W., Winker, K., and Winger, B.M., **2024**. How Veeries vary: Whole genome sequencing resolves genetic structure in a long-distance migratory bird. *Ornithology*, 141(2), p.ukado61.
17. Louder, M.I.M., Justen, H., **Kimmit, A.A.**, Lawley, K.S., Turner, L.M., Dickman, J.D., and Delmore, K.E., **2024**. Gene regulation and speciation in a migratory divide between songbirds. *Nature Communications*, 15(98).
16. Pegan, T.M., Berv, J.S., Gulson-Castillo, E.R., **Kimmit, A.A.**, Winger, B.M., **2024**. The pace of mitochondrial molecular evolution varies with seasonal migration distance. *Evolution*, 78(1), pp.160-173.
15. **Kimmit, A.A.**, Pegan, T.M., Jones, A.W., Wacker, K.S., Brennan, C.L., Hudon, J., Kirchman, J., Ruegg, K., Benz, B.W., Herman, R., and Winger, B.M., **2023**. Genetic evidence for widespread population size expansion in North American boreal birds prior to the Last Glacial Maximum. *Proceedings of the Royal Society B*, 290(1991), p.20221334.
14. Smiley, K.O., Lipshutz, S.E., **Kimmit, A.A.**, DeVries, M.S., Cain, K.E., George, E.M., and Covino, K.M., **2022**. Beyond a biased binary: A perspective on the misconceptions, challenges, and implications of studying females in avian endocrinology. *Frontiers in Physiology*, pp. 1878
13. **Kimmit, A.A.**, Becker, D., Friedline, S., Gerlach, N.M., Rosvall, K.A., and Ketterson, E.D., **2022**. Plasticity in female timing may explain earlier breeding in a North American songbird. *Journal of Animal Ecology*, 91(10), pp.1988-1998.
12. Earl, A.D.†, **Kimmit, A.A.**†, and Yorzinski, J.L., **2022**. Circulating hormones and dominance status predict female behavior during courtship in a lekking species. *Integrative and Comparative Biology*, 62(1), pp.9-20
11. Terry, R.*, Ramirez, L.*, Carrera, C.*, **Kimmit, A.A.**, Delmore, K., Goulart, A., **2021**. A Zuginruhe Data Collection System Using Passive Infrared Sensors. *PURSUE: Undergraduate Research Journal*, 4(1).

10. Singh, D., Reed, S.M.*, **Kimmit**, A.A., Alford, K.A. and Ketterson, E.D., **2021**. Breeding at higher latitude as measured by stable isotope is associated with higher photoperiod threshold and delayed reproductive development in a songbird. *Hormones and Behavior*, 128, pp.104907.
9. Justen, H.†, **Kimmit**, A.A.†, and Delmore, K.E., **2021**. Estimating hybridization rates in the wild: easier said than done? *Evolution*, 75(8), pp.2137-2144.
8. **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*, 60(3), pp.703-711
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*, 60(3), pp.796-813
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, pp.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, pp.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), pp.3.

News Coverage

2021. Ogden, L.E. How gender bias has shaped reproductive biology. *BioScience*, 71(3), pgs. 216–222. *News coverage of Integrative and Comparative Biology symposium including Kimmit, Integrative and Comparative Biology, 2020*.
2019. Functional Ecology blog post. “Abigail Kimmit—Seasonal sympatry and timing of reproduction in dark-eyed juncos.” functionalecologists.com. *News coverage of Kimmit et al., Functional Ecology, 2019*.
2018. British Ornithological Union blog post. “Males have preferences too.” <https://bou.org.uk/blog-kimmit-male-courtship-preferences>. *News coverage of Kimmit et al., Ecology and Evolution, 2018*.

Invited Talks

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- 2024 | “Focus on females: insights from studies on female song, behavior, and physiology” symposium. American Ornithological Society Annual Meeting. Estes Park, CO.

- 2024 | Biological Sciences Department, Ohio University, Athens, OH.
- 2024 | Department of Biology, Hofstra University, Hempstead, NY.
- 2024 | Department of Zoology & Physiology, University of Wyoming, Laramie, WY.
- 2024 | Department of Biology, Wake Forest University, Winston-Salem, NC.
- 2024 | Department of Biological Sciences, Eastern Illinois University, Charleston, IL.
- 2023 | Department of Biology, William and Mary, Williamsburg, VA.
- 2023 | Department of Ecology and Evolutionary Biology, University of Arizona, Tuscon, AZ.
- 2022 | Biology Department, Western Washington University, Bellingham, WA.
- 2022 | Department of Biology, West Chester University, West Chester, PA.
- 2022 | Department of Biology, University of Florida, Gainesville, FL.
- 2021 | Biology, Hamilton College, Clinton, NY.
- 2021 | Division of Biological Sciences, University of Missouri, Columbia, MO.
- 2021 | Schubot Center for Avian Health, Texas A&M University, College Station, TX.
- 2021 | Department of Biology, Lakehead University, Thunder Bay, Ontario.
- 2020 | Department of Biology, University of Louisville, Louisville, KY.
- 2020 | “Reproduction: the female perspective from an integrative and comparative approach” symposium. Society for Integrative and Comparative Biology. Austin, TX.
- 2016 | Department of Zoology, Ohio Wesleyan University. Delaware, OH.

Contributed Presentations

* Indicates undergraduate co-author

- 2023 | **Kimmit, A.A.**, Pegan, T.M., Jones, A.W., and Winger, B.M. American Ornithological Society Annual Meeting. London, ON, Canada. *(Talk)*
- 2022 | **Kimmit, A.A.**, Pegan, T.M., Jones, A.W., Brennan, C.L., Hudon, J., Kirchman, J., Ruegg, K., Benz, B.W., Herman, R., and Winger, B.M. Evolution. Cleveland, OH. *(Talk)*
- 2021 | **Kimmit, A.A.**, F. Angelier, and J.K. Grace. Animal Behavior Society. Virtual conference. *(Talk)*
- 2018 | **Kimmit, A.A.** and E.D. Ketterson. Causes and Consequences of Partial Migration Symposium. International Ornithological Congress. Vancouver, British Columbia. *(Talk)*
- 2018 | **Kimmit, A.A.**, S.L. Dietz*, D.G. Reichard, and E.D. Ketterson. IU CISAB Animal Behavior Conference. Bloomington, IN. *(Talk)*
- 2018 | **Kimmit, A.A.** and E.D. Ketterson. Society for Integrative and Comparative Biology. San Francisco, CA. *(Talk)*
- 2017 | **Kimmit, A.A.**, S.L. Dietz*, D.G., Reichard, and E.D. Ketterson. Society for Integrative and Comparative Biology. New Orleans, LA. *(Talk)*

- 2016 | **Kimmit, A.A** and E.D. Ketterson. North American Ornithological Conference. Washington, D.C. *(Poster)*
- 2016 | **Kimmit, A.A** and E.D. Ketterson. Society for Integrative and Comparative Biology. Portland, OR. *(Talk)*
- 2016 | **Kimmit, A.A** and E.D. Ketterson. Evolution. Guarujá, Brazil. *(Poster)*
- 2015 | **Kimmit, A.A.**, S.L. Dietz*, and E.D. Ketterson. Society for Integrative and Comparative Biology. West Palm Beach, FL. *(Poster)*
- 2015 | Dietz, S.L.* **A.A. Kimmit**, and E.D. Ketterson. Society for Integrative and Comparative Biology. West Palm Beach, FL. *(Poster)*
- 2014 | **Kimmit, A.A.** and E.D. Ketterson. Evolution. Raleigh, NC. *(Poster)*
- 2014 | **Kimmit, A.A.** A.S. Dolby, M.A. Carlo, D.A. O'Dell. Society for Integrative and Comparative Biology. Austin, TX. *(Poster)*
- 2014 | **Kimmit, A.A.**, D.G. Reichard, J.F.Welklin, and E.D. Ketterson. Society for Integrative and Comparative Biology. San Francisco, CA.*(Poster)*

Teaching Experience

- 2024 | Instructor of Record. NEUR 001: Introduction to Neuroscience I (18 students). Hofstra University.
- 2024 | Instructor of Record. BIOL 140: Human Physiology (42 students). Hofstra University.
- 2023 | Instructor of Record. EEB 330: Biology of Birds (16 students). University of Michigan Biological Station.
- 2017 | Instructor of Record. BIO-Z460: Animal Behavior (42 students). Indiana University.
- 2014, 2015 | Associate Instructor. BIO-L376: Biology of Birds (18-30 students). Indiana University.
- 2013 | Associate Instructor. Introduction to Ecology and Evolution (12-25 students). Indiana University.

Pedagogy Training

- 2018-2019 | Graduate Teaching Apprenticeship. Associate, Practitioner and Specialist Level. Center for Innovative Teaching and Learning, Indiana University.
- 2015 | Evidence-based teaching learning community. Center for Innovative Teaching and Learning, Indiana University.

Guest Lectures

- 2022 | Animal Migration Seminar. University of Michigan.
- 2020 | Behavioral Endocrinology Seminar. Loyola Marymount University.
- 2019 | BIOL-466: Principles of Evolution. Texas A&M University.
- 2019 | BIOL-467: Integrative Animal Behavior. Texas A&M University.
- 2018 | HIST-A379: The Evolution/Creation Controversy in Modern America. Indiana University.
- 2016 | BIO-L376: Biology of Birds. Indiana University.
- 2016 | 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. Katherine Kearns.

Mentoring

- 2022–2023 | Connor Jordan, University of Michigan undergraduate
- 2022 | Claire Pajka, University of Michigan Post-baccalaureate
- 2022 | Elladiss Fuge, Aspirnaut Summer Research High School Intern
- 2021 | Viridiana Martinez, Texas A&M University PhD student
- 2020 | Mira Woods, Texas A&M University undergraduate
- 2019–2020 | Ashley Alairo, Texas A&M University undergraduate
- 2018–2019 | Susan Reed, Indiana University undergraduate
- 2017 | Ashlee Webb, NSF REU, Center for the Integrative Study of Animal Behavior, Indiana University
- 2015-2019 | Katelyn Doyle, Cox Scholar, Indiana University undergraduate
Awarded IU Research and Teaching Preserve Grant (2018) (\$1250.00)
- 2015-2017 | Jack Hardman, Indiana University undergraduate
- 2015 | Danielle (Howard) Williams, Indiana University undergraduate
- 2014 | Samantha Dietz, NSF REU at Mountain Lake Biological Station, University of Virginia

Professional Service

- 2024– | Associate Editor for *Ornithology*
- 2023– | American Ornithological Society Early Professionals Committee
- 2023 | American Ornithological Society Student Presentation Award Competition Judge
- 2021 | Animal Behavior Society Founders Poster Competition Judge
- 2021 | Animal Behavior Society Postdoc Network Lunch Organizer
- 2018 | Faculty Recruitment Student Committee. Indiana University.
- 2017 | Graduate Research Fellowship (GRFP) Workshop Panelist. CIRTL Institution.
- 2015-2019 | Planning Committee for Animal Behavior Conference. Indiana University.
- 2014, 2015, 2017 | Graduate Recruitment Weekend Host. Indiana University.

Journal Reviews

The American Naturalist, Animal Behavior, Behavioral Ecology, BMC Genomics, Frontiers in Physiology, Integrative and Comparative Biology, Global Ecology and Biogeography, Naturwissenschaften, Journal of Ornithology, Molecular Biology and Evolution, Ornithology, Physiological and Biochemical Zoology, Proceedings of the Royal Society B, Royal Society Open, Wilson Journal of Ornithology

Outreach

- 2021 | Video lab presentation for Texas A&M Ecology and Evolutionary Biology Darwin Day
- 2020 | Case study activity for Birds Canada Motus Education. *Co-designed with Dr. Kira Delmore and Hannah Justen*
- 2020 | Volunteer at Texas A&M Ecology and Evolutionary Biology Darwin Day
- 2019 | Wabash Valley Audubon Bird Festival Volunteer. Terre Haute, IN.
- 2018 | Bloomington Bird Fest Volunteer. Bloomington, IN.
- 2015-2019 | SciU Blog Writer. Indiana University.
- 2015-2017 | “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.

Blog Posts

7. Kimmitt, A.A. Becker, D.J. "Are multi-brooded birds the current ‘winners’ of climate change?" 2022. *Animal Ecology in Focus*. <https://animalecologyinfocus.com/2022/09/14/are-multi-brooded-birds-the-current-winners-of-climate-change/>
6. Kimmitt, A.A. “Studying the genetics of migration using hybrids from a migratory divide”. 2020. *American Genetic Association Blog*. <https://blog.theaga.org/507-2/>
5. Kimmitt, A.A. “From models to the world’s biodiversity: How a theoretical biologist predicts the effects of environmental change.” 2019. *SciU blogs*. <https://blogs.iu.edu/sciu/2019/08/17/from-models-to-biodiversity/>
4. Kimmitt, A.A. “When the things we can’t see matter: the plant vs. environmental change edition. 2019. *SciU Blogs*. <https://blogs.iu.edu/sciu/2019/04/16/plant-vs-environmental-change/>
3. Kimmitt, A.A. “How cutting-edge technology can help us understand animal migration.” 2018. *SciU Blogs*. <https://blogs.iu.edu/sciu/2018/09/04/animal-migration/>
2. Kimmitt, A.A. “The grand challenge to prepare Indiana for environmental change. . . and the hope behind it”. 2018. *SciU Blogs*. <https://blogs.iu.edu/sciu/2018/03/27/iu-grand-challenge-environment-change>
1. Kimmitt, A.A. “Climate change: Adapt or die.” 2017. *SciU Blogs*. <https://blogs.iu.edu/sciu/2017/08/15/adapt-or-die/>