Sarah K. Winnicki

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ACADEMIC EMPLOYMENT

Postdoctoral Research Scholar, The Ohio State University, School of Environment and Natural Resources, Principal Investigator: Dr. Stephen N. Matthews

EDUCATION

PhD (Ecology, Evolution, & Conservation Biology), University of Illinois at Urbana-Champaign	2024
Intraspecific variation in avian growth and development: patterns and mechanisms, (GPA: 4.0)	
Co-advisors: Dr. T.J. Benson and Dr. Mark E. Hauber	
MSc (Biology), Kansas State University, with a Graduate Certificate in Applied Statistics	2019
Growing up prairie: ecological drivers of grassland songbird nestling development, (GPA: 4.0)	
Advisor: Dr. W. Alice Boyle	
BSc (Biology), Denison University, 2016, Summa cum laude, co-valedictorian (GPA: 4.0)	2016
Aggregation of Grasshopper Sparrow (Ammodramus savannarum) territories: effects on	
extra-pair copulation, cooperative care, and brood parasitism	
Co-advisors: Dr. W. Alice Boyle (Kansas State University) and Dr. Thomas Schultz (DU)	
BA (History), Denison University, 2016	2016
The ideals of female sanctity in Merovingian and Carolingian vitae	
Advisor: Dr. Adam Davis (DU)	

PUBLICATIONS

- 9. E.B. Smith, A. Roe, K. Silber, E.J. Williams, **S.K. Winnicki**, and W.A. Boyle. 2024. Consequences of drought for grassland songbird reproduction. Ecosphere 15(1): e4746. doi: 10.1002/ecs2.4746.
- 8. K. Kuangyi, M.R. Servedio, **S.K. Winnicki**, C. Moskat, J. Hoover, A. Turner, and M.E. Hauber. 2023. Host learning selects for coevolution of greater egg-mimicry and narrower anti-parasitic egg-rejection thresholds. Evolution Letters 7(6):413-421. doi: 10.1093/evlett/qrad041.
- 7. J.S. Marshall and **S.K. Winnicki.** 2022. Knemidokoptic mite infestation of island populations of Redwinged Blackbirds (*Agelaius phoeniceus*). Wilson Journal of Ornithology 134(1): 119-123. doi: 10.1676/21-00008.
- **6. S.K. Winnicki,** M.E. Hauber, T.J. Benson, and M. Abolins-Abols. 2022. Ground-nesting by arboreal American robins (*Turdus migratorius*). Ecology and Evolution 12 (1), e8489. doi: 10.1002/ece3.8489.
- 5. B.H.F. Verheijen, A.N. Erickson, W.A. Boyle, K.S. Leveritte, J.L. Sojka, L.A. Spahr, C.C. Then, E.J. Williams, S.K. Winnicki, and B.K. Sandercock. 2022. Predation, parasitism, and drought counteract

- the benefits of patch-burn grazing for the reproductive success of grassland songbirds. Ornithological Applications, duab066. doi: 10.1093/ornithapp/duab066.
- 4. S.L. Lawson, J.K. Enos, C.S. Wolf, K. Stenstrom, S.K. Winnicki, T.J. Benson, M.E. Hauber, and S.A. Gill. 2021. Referential alarm calling elicits future vigilance in a host of an avian brood parasite. Biology Letters. 17(9): 20210377. doi: 10.1098/rsbl.2021.0377.
- 3. M.E. Hauber, **S.K. Winnicki**, J.P. Hoover, D. Hanley, and I.R. Hays. 2021. The limits of egg recognition: Testing the acceptance thresholds of American robins in response to decreasingly egg-shaped objects in the nest. Royal Society Open Science. 8(1): 201615. doi: 10.1098/rsos.201615.
- **2. S.K. Winnicki,** B.M. Strausberger, J. Lock, N.D. Antonson, D.E. Burhans, A.M. Kilpatrick, and M.E. Hauber. 2021. Developmental asynchrony and host species identity predict variability in nestling growth rates of an obligate brood parasite: a test of the "growth-tuning" hypothesis. The Canadian Journal of Zoology. 99(3): 213-220. doi: 10.1139/cjz-2020-0147.
- **1. S.K. Winnicki,** S.M. Munguía, E.J. Williams, and W.A. Boyle. 2020. Social interactions do not drive territory aggregation in a grassland songbird. Ecology 101: e02927. doi: 10.1002/ecy.2927.

PUBLICATIONS IN REVISION

- **S.K. Winnicki,** M.E. Hauber, R.T. Paitz, and T.J. Benson. Light exposure affects Japanese Quail yolk steroids during development but not embryonic growth. *In revision following review with* Integrative and Organismal Biology.
- **S.K. Winnicki,** M.E. Hauber, R.T. Paitz, W.M. Schelsky, and T.J. Benson. Elevating testosterone and androstenedione produces temporary sex-dependent variation in Japanese Quail (*Coturnix japonica*) embryonic development. *In revision following review with* General and Comparative Endocrinology.
- **S.K.** Winnicki and W.A. Boyle. Grassland songbird growth and development under intense predation and brood parasitism risk. *In revision following review with* Functional Ecology.

ANTICIPATED ADDITIONAL MANUSCRIPTS

- **S.K. Winnicki**, T.J. Benson, R.T. Paitz, K.J. McGraw, and M.E. Hauber. Laying order predicts maternal investment of hormones and nutrients but not embryo size in the asynchronously hatching American Robin (*Turdus migratorius*). *Status: draft completed (dissertation chapter 4), will be submitted to* Functional Ecology *pending final coauthor review*.
- **S.K. Winnicki,** T.J. Benson, R.T. Paitz, W.M. Schelsky, and M.E. Hauber. Experimental elevation of yolk dehydroepiandrosterone (DHEA) reduces embryonic growth in American Robins (*Turdus migratorius*). *Status: draft completed (dissertation chapter 5), will be submitted to* General and Comparative Endocrinology *pending final coauthor review*.
- **S.K.** Winnicki, T.J. Benson, G.A. Bachtold, E.M. Trumbo, and M.E. Hauber. Experimental evidence that laying order affects nestling growth but not hatching size in American Robins (*Turdus migratorius*). *Status: draft completed (dissertation chapter 6), will be submitted to* Proceedings of the Royal Society: B, Biological Sciences *pending final coauthor review*.
- -Working title: "The effect of egg-laying order on the development of American Robin (*Turdus migratorius*) nestling gut microbial diversity," status: samples collected, will be submitted as a first-author publication (PhD collaboration with the lab of Dr. Angela Kent, UIUC)

- -Working title: "Effects of provisioning rate and grassland bird host species on Brown-headed Cowbird (*Molothrus ater*) nestling development," status: in prep, will be submitted as a first-author publication
- -Working title: "Predatory snake behavior at grassland bird nests," status: in prep, will be submitted as a first-author publication
- -Working title: "Long-term nesting data link habitat degradation to declines of grassland birds," status: in prep for submission, will be a co-author (lead author: E.B. Smith)

SCHOLARSHIPS & FELLOWSHIPS

Summer Research Assistantship, UIUC NRES, \$6636.	2024
Summer Research Fellowship, UIUC PEEC, \$4040.	2023
Summer Research Assistantship, UIUC NRES, \$650.	2023
Francis M. and Harlie M. Clark Summer Fellowship, UIUC SIB, \$5,100.	2022
Illinois Distinguished Fellowship, UIUC Graduate College, \$75,000.	2019-2024
Graduate Research Fellowship, National Science Foundation, \$132,000.	2016-2019
NSF Research Experience for Undergraduates (REU), Kansas State, \$5000.	2015
Kenneth I. Brown Scholarship, Denison University, \$2000.	2015
Allen Price Memorial Scholarship, Denison University, \$1000.	2015
NSF Research Experience for Undergraduates (REU), Kansas State, \$5000.	2014
Anderson Scholarship for Excellence in Science, Denison University, \$89,340.	2014-2016
Research Experience for Undergraduates (REU), Ohio State University (Stone Lab).	2013
Paschal Carter Scholarship, Denison University, \$160,000.	2012-2014

RESEARCH GRANTS

Student Research Grant, Illinois Audubon Society, \$1000	2022
Summer Research Grant, UIUC PEEC, \$2000.	2022
Summer Research Grant, UIUC PEEC, \$2000.	2021
Lebus Research Award, UIUC SIB, \$1000.	2021
Dissertation Travel Grant, UIUC Graduate College, for research travel, \$2,474.42.	2020
Summer Research Grant, UIUC PEEC, \$1000.	2020
Harley J. Van Cleave Research Award, UIUC SIB, \$1000.	2020
Student Research Grant, KSU Biology Graduate Student Association, \$500.	2018
FOSZ Conservation Scholarship, Friends of the Sunset Zoo (Kansas) \$2000.	2018
Grant-in-Aid of Research, Sigma Xi, \$1000.	2017
Howard McCarley Award, Southwestern Association of Naturalists, \$1000.	2017
Gilpatrick Center Student Research Grant, Denison University, \$200.	2015
Gilpatrick Center Student Research Grant, Denison University, \$500.	2014
Student Research Grant, Kansas Ornithological Society, \$600.	2014
Horizon Fund Grant, Denison University Division of Student Development, \$1000.	2014
Great Opportunities Fellowship, Denison University, \$3000.	2013

ACADEMIC AWARDS & HONORS

John G. & Evelyn Hartman Heiligenstein Award for excellence in graduate teaching,	2024
UIUC School of Integrative Biology	2010
Recognition of Achievement, Kansas State College of Arts and Sciences	2019
President's Medal, for achievement, service, and leadership, Denison University	2016
William T. Utter Prize, for best year-long history thesis, Denison University	2016
Michael and Amy Gordon Award in European History, Denison University	2016
A. Blair Knapp Award for academic achievement, Denison University	2016
Senior Fellow, Denison University Biology Department	2016
Sigma Xi Associate Membership, sponsored by the Denison Biology Department	2016
Phi Beta Kappa, academic achievement honorary, Denison University	2015
Margaret Ann Watkins Award for achievements in biology, Denison University	2015
Mortar Board, for academic achievement and service, Denison University	2015-2016
Carolyn Craig & Carl M. Franklin Student Service Award, Denison University	2014
Department Fellow, Denison University History Department	2014-2016
	2014-2016
	2012-2016
,	2012-2016
CONFERENCE TRAVEL AWARDS	
Student Travel Award, Animal Behavior Society, \$700.	2024
Student Travel Award, Wilson Ornithological Society, \$700.	2022
Student Travel Award, Wilson Orininological Society, \$700. Student Travel Award, UIUC Graduate College, \$325.	2019
Student Travel Award, UIUC School of Integrative Biology (PEEC), \$700.	2019
Student Travel Award, Orec School of Integrative Biology (1 ELE), \$700. Student Travel Award, American Ornithological Society, \$580.	2019
Bruce Steward Travel Award, Southwestern Association of Naturalists, \$542.	2019
Student Travel Award, Kansas State University Graduate Student Council, \$675.	2019
Student Travel Award, Kansas State University Graduate Student Council, \$675. Student Travel Award, Kansas State University College of Arts & Sciences, \$800.	
,	2018
Student Travel Award, American Ornithological Society, \$300.	2018
Student Travel Award, Wilson Ornithological Society, \$170.	2016
Student Travel Award, Wilson Ornithological Society, \$1112.75.	2015
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Conference Presentations	
- American Ornithological Society, London Ontario Canada (oral): Experimental evidence that egg-laying order impacts growth of American Robin nestlings, <i>student presentation award</i>	2023
- Wilson Ornithological Society , Santa Fe NM (oral in-person with virtual component): Laying order, incubation behavior, and hatching synchrony in American Robins (<i>Turdus migratorius</i>).	2022
- Animal Behavior Twitter Conference (virtual); American Ornithological Society (virtual)	al): 2021
Egg-laying order, maternal effects, and embryonic growth in American Robins.	2021

- North American Ornithological Conference, virtual (poster); Animal Behavior Society,	2020
virtual (oral): Maternal hormone investment does not match embryonic growth rate in quail.	
- American Ornithological Society, Anchorage AK (oral): Direct effects of Brown-headed	2019
Cowbird (<i>Molothrus ater</i>) brood parasitism on the growth and development of grassland songbirds.	
- Southwestern Association of Naturalists, Chihuahua City Mexico (oral): Direct effects of	2019
Brown-headed Cowbird (Molothrus ater) brood parasitism on the growth and development	
of grassland songbirds/ Efectos directos del parasitismo de cria por el vaquero de cabeza	
castaña (Molothrus ater) en el crecimiento y desarrollo de aves cantores de pastizales.	
- Kansas Ornithological Society, Lawrence KS (oral); International Ornithological	2018
Congress, Vancouver BC Canada (poster): Direct effects of Brown-headed Cowbird	
(Molothrus ater) brood parasitism on the growth and development of grassland songbirds,	
student presentation award (KOS)	2010
- American Ornithological Society, Tucson AZ (oral); Kansas Natural Resources	2018
Conference , Manhattan KS (oral): The effects of Brown-headed Cowbird brood parasitism	
on the growth and development of grassland songbirds.	
- Kansas Ornithological Society, Junction City KS (oral): The role of brood parasitism in	2017
shaping nestling growth and development strategies: preliminary results.	•01=
- American Ornithological Society/Society of Canadian Ornithologists/SOC, East Lansing	2017
MI (poster); Kansas Natural Resources Conference, Wichita KS (poster): Complex drivers	
of Grasshopper Sparrow (Ammodramus savannarum) nest success.	2016
- Kansas Ornithological Society, Garden City KS (oral); North American Ornithological	2016
Conference, Washington DC (oral): Causes of Grasshopper Sparrow (Ammodramus	
savannarum) density variation: parasitism, cooperative care, and extra-pair paternity.	2015
- Ohio Avian Research Conference, Granville OH (oral); American Ornithologists' Union/Cooper Ornithological Society, Norman OK (oral); WOS/SCO-SOC/AFO,	2013
Wolfville NS Canada (oral): Aggregation of Grasshopper Sparrow (<i>Ammodramus</i>	
savannarum) territories: effect of extra-pair paternity, cooperative care, and kinship, student	
presentation award (OARC)	
- Ohio Avian Research Conference, Granville OH (oral): Aggregation of Grasshopper	2014
Sparrow (Ammodramus savannarum) territories: a test of the extra pair mating and	2011
cooperative care hypotheses, student presentation award	
- Wilson Ornithological Society/Association of Field Ornithologists, Newport RI (poster);	2014
Ohio Avian Research and Conservation Conference, Granville OH (oral and poster):	2013
Population biology of the Red-winged Blackbirds on the Lake Erie islands.	2018
CEDANCE AND LEADERCHIP	
SERVICE AND LEADERSHIP	
Board Chair, (previously Web Manager) Rainbow Lorikeets (American Ornithology	2022-
	resent
-led initiatives to expand the Board, build a Lorikeets Community email listserv and	
(upcoming) Discord space, connect with other ornithological societies to build a	
broader queer ornithology community, generate discussion with #QueerOrnithology	
Twitter conversations, educate community members about the needs of queer	
ornithologists (writing an upcoming blog post for AOS's Wing Beat and Ornithology	
Exchange), plan social events at conferences; ran the Lorikeets' Twitter, doubling the	

presence of the caucus on the site in 6 weeks; organized and led monthly Board	
meetings Peer reviewer for scientific manuscripts in: Journal of Field Ornithology, Journal of	2018-2024
Animal Ecology, Animal Cognition, Ibis, Western Birds	2016-2024
Web Manager, Graduates in Ecology and Evolution society, UIUC	2020-2021
-managed the GEEB Twitter account, blog, website, and emailing listserv	
Social Media Manager for the Sensorium (sensory biology) conference	2019
Web Manager and Reviewer, Science Snapshots research blog	2018-2019
Contributor to the creation of K-State Biology's first Diversity Statement	2018
Secretary, Kansas State University Biology Graduate Student Association	2016-2017
Committee Member, Kansas State University Biology Graduate Student Association:	2016-2018
Faculty Awards Committee and Manual Sales Committee	
Treasurer, Denison University chapter of Phi Alpha Theta (history honorary)	2014-2015
Corresponding Secretary and Editor, Cleveland's (Ohio) Kirtland Bird Club	2013-2015
-maintained membership lists, produced the Kirtland Warbler quarterly newsletter Secretary, Denison University Hillel	2013-2015
President, and (previously Secretary) of the Denison University Quadball Team	2013-2015
Youth Advisory Board Panel, Ohio Young Birders Club	2009-2012
-led field trips, managed student-led publications, planned outreach projects, hosted	2007 2012
conferences, consulted with community leaders (like the Governor of Ohio) on	
conservation projects	
TEACHING AND MENTORING EXPERIENCE	
Mentoring:	2022
	2022
Mentoring: - Co-mentored (with M.E. Hauber) an independent undergraduate researcher	2022 2019-2020
Mentoring: - Co-mentored (with M.E. Hauber) an independent undergraduate researcher studying robin parental care: A. Pelayo (UIUC)	
 Mentoring: Co-mentored (with M.E. Hauber) an independent undergraduate researcher studying robin parental care: A. Pelayo (UIUC) Co-mentored (with W.A. Boyle) an independent undergraduate researcher writing a manuscript on prairie snake behavior: D. Stockman (Kansas State) Co-mentored (with W.A. Boyle) three summer REU students at Kansas State 	
 Mentoring: Co-mentored (with M.E. Hauber) an independent undergraduate researcher studying robin parental care: A. Pelayo (UIUC) Co-mentored (with W.A. Boyle) an independent undergraduate researcher writing a manuscript on prairie snake behavior: D. Stockman (Kansas State) Co-mentored (with W.A. Boyle) three summer REU students at Kansas State University doing grassland bird biology: E. Harris (Beloit College), B. Rosado 	2019-2020
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 Mentoring: Co-mentored (with M.E. Hauber) an independent undergraduate researcher studying robin parental care: A. Pelayo (UIUC) Co-mentored (with W.A. Boyle) an independent undergraduate researcher writing a manuscript on prairie snake behavior: D. Stockman (Kansas State) Co-mentored (with W.A. Boyle) three summer REU students at Kansas State University doing grassland bird biology: E. Harris (Beloit College), B. Rosado Ramos (Universidad del Turabo), and D. Savage (Kansas State University) Trained field technicians: fifteen Kansas State undergraduate students, one UIUC undergraduate student Trained lab technicians: ten Kansas State undergraduate students Teaching Experience: Graduate Teaching Assistant, University of Illinois at Urbana-Champaign	2019-2020 2017 2016-2022 2016-2019
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preparing my own syllabus, lectures, classroom activities, assessments,

and Canvas site; also the lecture TA for the broader 202 course answering student emails, running the Canvas site, and grading assignments	
IB 204: Genetics*	Fall 2023
independently led two laboratory sections, designed introductory	1 an 2023
materials for labs that I later supplied to future TAs, assisted with	
student discussions in lectures	
IB/NRES 461: Ornithology*	Spring 2022
independently led two laboratory sections; prepared the laboratory	5pmg 2022
syllabus, classroom materials, and evaluations; led field trips and gave	
guest lectures	
IB 150: Organismal and Evolutionary Biology*	Fall 2021
led four discussion sections with hands-on materials	
Graduate Teaching Assistant, Kansas State University	
BIOL 513: Physiological Adaptations of Animals	Fall 2018
assisted with laboratory classes and grading	
BIOL 543: Ornithology	Spring 2018
oversaw laboratory classes and bird ID lectures, helped rewrite the	
laboratory manual, led field trips, and gave guest lectures	
BIOL 513: Physiological Adaptations of Animals	Fall 2017
assisted with laboratory classes and grading	
BIOL 543: Ornithology	Spring 2017
oversaw laboratory classes and led field trips	1 0
BIOL 198: Principles of Biology	Fall 2016
prepared and led the two-week ecology module, assisted with hands-on	
learning activities throughout the semester	
Undergraduate Teaching Assistant, Denison University	
BIOL 103: Ecology of a Changing Planet	Spring 2016
BIOL 104: Biology of Color	Fall 2015
BIOL 356: Ornithology	Spring 2015
BIOL 150: Introduction to the Science of Biology	Fall 2014
BIOL 202: Ecology and Evolution	Spring 2014
	~pg =01 .
Invited guest lectures to college students:	
- Loyola Marymount University Behavioral Endocrinology class:	2022-2023
"Hormones and Life History" (fall semester 2022 and 2023)	
- SUNY Geneseo Animal Behavior class, cowbird breeding behavior	2020
Teaching/Mentoring Training and Certification:	
- SafeZone Advocate, trained ally to minority students	2018
- Trained in Active Learning techniques at a Kansas State University workshop	2016
Trained in Treate Bearing techniques at a Trained State Chrystolity Workshop	2010

SCIENCE COMMUNICATION AND OUTREACH

Scientific Consultant for:	
 upcoming television documentary on cowbirds produced by Wildstar Films for National Geographic/Disney+ 	2022
- "True Facts: Parasitic Birds" YouTube video in the "Ze Frank's True Facts" series, viewed 2.2 million times since September 2022, https://tinyurl.com/yjkwpuma	2022
 educational videogame with the Kansas State University Advanced Landscape Immersion and Visualization Environment laboratory (Kansas). The project, "Visualizing the Konza in 4D," is intended to educate students about the tallgrass prairie and specific research projects that take place there (including my projects) 	2017
- Junior Girl Scouts conservation-based GS Journey/Bronze Award project (Ohio)	2015
Guest interviews for multimedia public audiences:	
 podcast: The American Birding Podcast, spoke about cowbirds; https://tinyurl.com/yvdy5tzb 	2021
- radio: 89.7 NPR News (Ohio) All Sides With Ann Fisher, promoting the Ohio Young Birders Club conference and answering questions about science communication	2018
- radio: KSDB (Kansas) to promote Science on Tap program	2018
 radio: 91.9 KSDB (Kansas) promoting the K-State Science Communication week and my research 	2017
- television: 13 WIBW (Kansas) "Red Couch" segment, promoting the K-State Science	2017
Communication week	
Interviewed for public print media:	
- Birds and Bloom magazine article about cowbird biology (upcoming)	2023
- Birds and Bloom magazine article: "Get ready for Red-Winged Blackbird season" http://tinyurl.com/bdfnxxyb	2022
- Birds and Bloom magazine article: "How long do baby birds stay in the nest and more nest facts" https://tinyurl.com/2df86e8e	2022
 - Audubon Magazine article about the Ohio Young Birders Club and my career: https://tinyurl.com/y42hss6s 	2019
- 46 Questions for Scientists feature, https://tinyurl.com/t65f3jh	2019
 National Audubon Society article about human interference and cowbird parasitism: https://tinyurl.com/ycaxxlrd 	2018
- SEEK magazine (Kansas State): "Taking research to the nest level: Prairie songbird biologist engages public in her work on nestlings"	2018
 Fantastic Women in Science blog, interviewed about my experiences with science, gender, sexuality, and mental illness: https://tinyurl.com/y7u6hfua 	2018
Public seminars:	
 Invited panelist, Bruin Birding Club (UCLA Audubon chapter) Bird-themed LGBTQ+ Pride Festival 	2023
- "Science Communication and Outreach," UIUC Graduate Students in Ecology and Evolutionary Biology EcoLunch series	2022

- "Cowbirds: villainous mobsters or falsely maligned native species? A biologist's perspective" to:	
- Fyke Nature Center (New Jersey)	2023
- Will County Audubon (Illinois)	2022
- Biggest Week in American Birding festival Expert Workshop (Ohio)	2022
- Grosse Point Audubon Society (Michigan)	2021
- K-State Johnson County Extension Master Naturalist Program (Kansas)	2021
- Chicago Ornithological Society: Birds & Bytes (Illinois)	2021
- Black Swamp Bird Observatory Birds at Home Keynote (Ohio)	2021
- Wichita Audubon Society (Kansas): https://tinyurl.com/dwupy3aw	2020
- "Evolution of brood parasitism," Ayatana Artists' Research Program (4 classes)	2020-2022
- "Teaching the Scientific Process: Linking Hypotheses to Data Using Migratory Birds," Western Cuyahoga Audubon Society (Ohio): https://tinyurl.com/5akkjhzd	2021
- presentation on wildlife career and research for the K-State Wildlife Society (Kansas)	2018
- "Effects of brood parasitism on nestling growth and development," Three-Minute Thesis Competition (Kansas)	2018
- "Surveying Natural Selection: Evolution in the Galapagos, on the Lake Erie Islands, and in Our Classrooms," Kirtland Bird Club (Ohio) and the Medina County Parks District Environmental Speaker Series (Ohio)	2014
- "Birding With Your Family: Tips to Get the Whole Family Out Birding!" with W. Miller, Midwest Birding Symposium (Ohio)	2011
- "Cornell Lab of Ornithology's Young Birders' Event Review," Ohio Young Birders Club Conference (Ohio)	2010
- "Birding 101" with W. Miller, Shreve Migration Sensation (Ohio)	2010
- "California Condors: A Conservation Story," Ohio Young Birders Club Conference (Ohio) and Kelley's Island Audubon Society Meeting (Ohio)	2009-2010
K-12 Outreach:	
 Pen-pal in the Letters to a Pre-Scientist program, exchanging letters with a middle- school student interested in a STEM career 	2018-2024
 led discussion about ecology careers and a hands-on workshop about hypothesis testing/bird migration for middle school girls, Enhancing Your Future, Emporia State (Kansas) 	2018
- led online workshops with the Skype-A-Scientist program:	
- with two classrooms of fifth graders from Tinley Park (Illinois)	2019
- with two classrooms of fifth graders from Mansfield (Maryland)	2019
- with one classroom of twelfth graders from Tulsa (Oklahoma)	2019
- with two classrooms of tenth graders from Midlothian (Virginia)	2019
- with three classrooms of eighth graders from Stetson Hills (Arizona)	2018
- with four classrooms of eleventh and twelfth graders from Aubrey (Texas)	2018
- led a hands-on hypothesis testing/ bird biology workshop with W.A. Boyle for middle-school girls, Enhancing Your Future, Emporia State (Kansas)	2017
 created an educational game for middle-schoolers about the politics of science funding and medical responses to epidemics, GROW (Girls Researching Our World) program, KSU (Kansas) 	2016

- presented "Avian Adieu," an introduction to bird migration and conservation, to elementary students at the Granville Public Library (Ohio)	2015
Public workshops and outreach:	
 led a workshop "Wonderful World of Birds" which taught introductory conservation, evolution, and physiology through the lens of local birds to incarcerated individuals at the Danville (Illinois) Correctional Center 	2024
- Science on Tap, brewery science series, Tallgrass Taphouse (Kansas)	2018
- developed a game to teach all ages about grassland bird growth, biology, conservation, shared it at the:	
- Kansas State University science communication meet-and-greet	2017
- Sunset Zoo (Kansas) Science Saturday, both November and December events	2017
- presented at the "Think and Drink" community event, Arrow Coffee (Kansas)	2017
- shared research images at the Science Communication Scholarship Expo (Kansas)	2017
- answered questions at a community "Ask a Scientist" event (Kansas)	2017
- led community bird walks for the Central Ohio Audubon Club	2012-2016
Online science communication and advocacy efforts:	
- run a Twitter science communication account (@skwinnicki) with >10,000 followers	2018-
- post videos of wildlife, science methods to a YouTube account with >138,000 views	2015-
- hosted a Twitter "Ornitholoday" event for the British Ornithologists' Union, tweeting about grassland bird development 170 times over 9 hours	2019
- featured on 500 Queer Scientists: https://tinyurl.com/y9wph98f	2018
- contributed blog posts to the Kansas State University science blog Science Snapshots	2018
Science Communication Awards and Honors:	
 -A. Brazier Howell Presentation Award for best presentation on any topic in ornithology, American Ornithological Society 	2023
- Finalist, British Ornithological Union Science Communication Award	2020
 invited speaker, SciComm conference (Kansas), presented: "Hashtags, captions, albums, lists? Observations about different audience-specific communication styles on Twitter, Facebook, and YouTube." 	2019
- Science Communication Award, Kansas Science Communication Initiative	2019
 Invited Keynote Speaker, 12th Annual Ohio Young Birders Conference, presented "Growing up Prairie: Insights from the sparrows" 	2018
- Student Presentation Award, Kansas Ornithological Society	2018
 one of four graduate students invited to speak at the Kansas State University Division of Biology 50th Anniversary meeting 	2018
- James E. Ackert Award for Outstanding Graduate Student Presentation, Kansas State University Division of Biology	2018
- Best Presentation Style Award, Ecology and Evolutionary Biology Graduate Students on Parade (Kansas State University)	2018
- Student Presentation Award, Kansas Ornithological Society	2016
- crowd-voted best student science presentation, Ohio Avian Research Conference	2015

- Dr. David R. Osborne Ornithology Prize for best student oral presentation, Ohio Avian Research Conference

2014

Science Communication Training and Certifications:

- STEM workshop leader for the Education Justice Project, a prison outreach program	2021-
(Illinois) with associated training for science communicators seeking to educate and	present
advocate for incarcerated adults	_
- Science Communication Fellow, Sunset Zoo (Kansas)	2017
- trained in science blog writing through a workshop with Kansas State and the Sunset	2017
Zoo (Kansas)	

OTHER EMPLOYMENT AND INTERNSHIPS

Field Technician and Crew Leader, Kansas State University	2016
Biology Head Tutor, Denison University Academic Support and Enrichment	2015-2016
Biology Drop-in Tutor, Denison University Biology Department	2014-2016
Student Research Assistant, Denison University Libraries	2014
Biology Tutor, Denison University Academic Support and Enrichment	2013-2016
Research Assistant and Writing Associate, Denison University History Department	2014
Circulation Desk and Reference Desk Employee, Denison University Libraries	2013-2016
Archive Student Assistant, Denison University Libraries	2012-2014
Ecotourism Field Trip Leader Intern, Wildside Nature Tours, Inc., (sporadically)	2012-2015

RESEARCH SKILLS

Field skills:

Undergraduate research (2013): passive mist netting to capture songbirds; rowing boats to island research sites; recording and entering field data

Konza project (2014-2018): mist netting, bleeding, measuring, and personally banding over 300 songbird individuals; resighting color-banded sparrows and completing formal surveys; nest searching by behavioral observations and rope-dragging (finding over 100 grassland songbird nests); measuring eggs; using GPS and maps; measuring and personally banding 140 nestlings; measuring vegetation using Robel poles and Daubenmire frames; behavioral observations from a blind; operating a quantitative magnetic resonance machine in a trailer; monitoring nests in person and by video recording; assembling and deploying nest cameras; operating field trucks and changing tires; and planning and coordinating the efforts of 6+ field crew technicians per year.

PhD research (2019-present): measuring nestling American Robins (*Turdus migratorius*) and eggs; nest searching in arbors, using phone GPS and maps; constructing nest cameras and monitoring nests; fostering and transporting eggs; collecting eggs for hormone content analyses; incubating robin eggs and measuring embryos; coordinating with a field technician; collecting fecal samples from nestling birds for microbiome sequencing; prepared model eggs and placed them in nests for egg-rejection studies.

Lab skills:

- -Konza project (2014-2018): DNA extraction from bird blood with Qiagen kits; PCR and microsatellite ABI genotyping; developing protocols that were shared with other researchers
- -PhD research (2019-present): Raising quail embryos in lab incubators; measuring developing embryos; extracting and preparing egg yolk hormone samples for mass spectrometry analysis; color analysis of eggshells and yolk images using ImageJ; PCR and molecular sexing of bird embryos; freeze-drying fecal samples; DNA extraction from blood, flesh, and fecal samples (Qiagen and FastDNA kits)

Computer skills:

- -statistical analysis, data visualization, and data formatting in R/RStudio (primarily), but also JMP, SAS, Program MARK, and ESRI arcMap
- -building/managing databases in Microsoft Access and online data entry forms on Microsoft Forms
- -building and maintaining databases, files on Dropbox, Box, and Google Drive
- -presenting scientific research in Word and PowerPoint
- -data collection using ImageJ (for still photos) and DeepMeerkat (for video data)
- -producing educational videos with Adobe Premiere Pro