Sarah K. Winnicki

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EDUCATION

PhD candidate (Program in Ecology, Evolution, & Conservation Biology) in progress, University of

Illinois at Urbana-Champaign, Aug 2019-present

Intraspecific variation in avian growth and development: patterns and mechanisms

Co-advisors: Dr. T.J. Benson and Dr. Mark E. Hauber

MSc (Biology), Kansas State University, 2019 (4.0)

with a Graduate Certificate in Applied Statistics

Growing up prairie: ecological drivers of grassland songbird nestling development

Advisor: Dr. W. Alice Boyle

BSc (Biology), Denison University, 2016, Summa cum laude, co-valedictorian (4.0)

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

The ideals of female sanctity in Merovingian and Carolingian vitae

Advisor: Dr. Adam Davis (DU)

PUBLICATIONS

- 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.
- **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 review for* 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 review for* General and Comparative Endocrinology.
- **S.K.** Winnicki and W.A. Boyle. Grassland songbird growth and development under intense predation and brood parasitism risk. *In review for* Functional Ecology.
- E.B. Smith, A. Roe, K. Silber, E.J. Williams, **S.K. Winnicki**, and W.A. Boyle. Consequences of drought for grassland songbird reproduction. *In revision following revisions for* Ecosphere.
- K. Kuangyi, M.R. Servedio, S.K. Winnicki, C. Moskat, J. Hoover, A. Turner, and M.E. Hauber. Host learning selects for coevolution of greater egg-mimicry and narrower anti-parasitic egg-rejection thresholds. *In review following revisions for* Evolution Letters.

SCHOLARSHIPS & FELLOWSHIPS

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. Dissertation Travel Grant, UIUC Graduate College, for research travel, \$2,474.42. Summer Research Grant, UIUC PEEC, \$1000. Harley J. Van Cleave Research Award, UIUC SIB, \$1000. Student Research Grant, KSU Biology Graduate Student Association, \$500. FOSZ Conservation Scholarship, Friends of the Sunset Zoo (Kansas) \$2000. Grant-in-Aid of Research, Sigma Xi, \$1000. Howard McCarley Award, Southwestern Association of Naturalists, \$1000. Gilpatrick Center Student Research Grant, Denison University, \$200. Gilpatrick Center Student Research Grant, Denison University, \$500. Student Research Grant, Kansas Ornithological Society, \$600. Horizon Fund Grant, Denison University Division of Student Development, \$1000. Great Opportunities Fellowship, Denison University, \$3000.	2021 2020 2020 2020 2018 2018 2017 2017 2015 2014 2014 2014 2013
ACADEMIC AWARDS & HONORS	
Recognition of Achievement, Kansas State College of Arts and Sciences President's Medal, for achievement, service, and leadership, Denison University William T. Utter Prize, for best year-long history thesis, Denison University Michael and Amy Gordon Award in European History, Denison University A. Blair Knapp Award for academic achievement, Denison University Senior Fellow, Denison University Biology Department Sigma Xi Associate Membership, sponsored by the Denison Biology Department Phi Beta Kappa, academic achievement honorary, Denison University Margaret Ann Watkins Award for achievements in biology, Denison University Mortar Board, for academic achievement and service, Denison University Carolyn Craig & Carl M. Franklin Student Service Award, Denison University Department Fellow, Denison University History Department Phi Alpha Theta, history honorary, Denison University Dean's List, Denison University, all semesters National Merit Scholar	2019 2016 2016 2016 2016 2016 2016 2015 2015 2015 2015-2016 2014-2016 2014-2016 2012-2016
CONFERENCE TRAVEL AWARDS	
Student Travel Award, Wilson Ornithological Society, \$700. Student Travel Award, UIUC Graduate College, \$325. PEEC Travel Grant, UIUC School of Integrative Biology, \$700. Student Travel Award, American Ornithological Society, \$580. Bruce Steward Travel Award, Southwestern Association of Naturalists, \$542. Student Travel Award, Kansas State University Graduate Student Council, \$675. Student Travel Award, Kansas State University College of Arts & Sciences, \$800. Student Travel Award, American Ornithological Society, \$300. Student Travel Award, Wilson Ornithological Society, \$170.	2022 2019 2019 2019 2019 2018 2018 2018 2016

CONFERENCE PRESENTATIONS

- Wilson Ornithological Society, Santa Fe NM (oral in-person with virtual component):	2022
Laying order, incubation behavior, and hatching synchrony in American Robins (<i>Turdus migratorius</i>).	
- Animal Behavior Twitter Conference (virtual); American Ornithological Society (virtual):	2021
Egg-laying order, maternal effects, and embryonic growth in American Robins.	
- 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 (<i>Molothrus ater</i>) brood parasitism on the growth and development of grassland songbirds/ Efectos directos del parasitismo de cria por el vaquero de cabeza castaña (<i>Molothrus ater</i>) 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	_010
(<i>Molothrus ater</i>) brood parasitism on the growth and development of grassland songbirds	
- 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.	
- 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.	
- 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.	
- Ohio Avian Research Conference, Granville OH (oral); American Ornithologists'	2015
Union/Cooper Ornithological Society, Norman OK (oral); WOS/SCO-SOC/AFO,	
Wolfville NS Canada (oral): Aggregation of Grasshopper Sparrow (Ammodramus	
savannarum) territories: effect of extra-pair paternity, cooperative care, and kinship.	
- Ohio Avian Research Conference, Granville OH (oral): Aggregation of Grasshopper	2014
Sparrow (Ammodramus savannarum) territories: a test of the extra pair mating and	
cooperative care hypotheses.	
- 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.	

SERVICE AND LEADERSHIP

Board Chair, (previously Web Manager) Rainbow Lorikeets (American Ornithology Society and Out to Innovate LGBTQIA+ caucus) -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	2022- present
Peer reviewer for scientific manuscripts in: Journal of Field Ornithology, Journal of Animal Ecology, Animal Cognition, Ibis, Western Birds	2018-2022
Web Manager, Graduates in Ecology and Evolution society, UIUC -managed the GEEB Twitter account, blog, website, and emailing listsery	2020-2021
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: Faculty Awards Committee and Manual Sales Committee	2016-2018
Treasurer , Denison University chapter of Phi Alpha Theta (history honorary)	2014-2015
Corresponding Secretary and Editor, Cleveland's (Ohio) Kirtland Bird Club -maintained membership lists, produced the Kirtland Warbler quarterly newsletter	2013-2015
Secretary, Denison University Hillel	2013-2015
President, and (previously Secretary) of the Denison University Quadball Team	2014-2016
Youth Advisory Board Panel, Ohio Young Birders Club	2009-2012
-led field trips, managed student-led publications, planned outreach projects, hosted conferences, consulted with community leaders (like the Governor of Ohio) on conservation projects	

TEACHING AND MENTORING EXPERIENCE

Mentoring:

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- Co-mentored (with M.E. Hauber) an independent undergraduate researcher	2022-present
studying robin parental care: A. Pelayo (UIUC)	
- Co-mentored (with W.A. Boyle) an independent undergraduate researcher writing	2019-2020
a manuscript on prairie snake behavior: D. Stockman (Kansas State)	
- Co-mentored (with W.A. Boyle) three summer REU students at Kansas State	2017
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	2016-2022
undergraduate student	
- Trained lab technicians: ten Kansas State undergraduate students	2016-2019

Teaching Experience: Graduate Teaching Assistant, University of Illinois at Urbana-Champaign IB/NRES 461: Ornithology Spring 2022 led two laboratory sections; designed material, lectures, and evaluations; led field trips IB 150: Organismal and Evolutionary Biology Fall 2021 led four discussion sections Graduate Teaching Assistant, Kansas State University BIOL 513: Physiological Adaptations of Animals Fall 2018 BIOL 543: Ornithology Spring 2018 oversaw laboratory classes and bird ID lectures, led field trips BIOL 513: Physiological Adaptations of Animals Fall 2017 BIOL 543: Ornithology Spring 2017 oversaw laboratory classes and led field trips BIOL 198: Principles of Biology Fall 2016 prepared and led the two-week ecology module 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 *Invited guest lectures to college students:* - Loyola Marymount University Behavioral Endocrinology class: 2022 "Hormones and Life History" - 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 SCIENCE COMMUNICATION AND OUTREACH **Scientific Consultant for:** - upcoming television documentary on cowbirds produced by Wildstar Films for 2022 National Geographic/Disney+ - "True Facts: Parasitic Birds" YouTube video in the "Ze Frank's True Facts" series, 2022 viewed 2.2 million times since September 2022, https://tinyurl.com/yjkwpuma - educational videogame with the Kansas State University Advanced Landscape 2017 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) - 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;	2021
https://tinyurl.com/yvdy5tzb	2010
- radio: 89.7 NPR News (Ohio) All Sides With Ann Fisher, promoting the Ohio Young	2018
Birders Club conference and answering questions about science communication - radio: KSDB (Kansas) to promote Science on Tap program	2018
- radio: SDB (Kansas) to promote Science on Tap program - radio: 91.9 KSDB (Kansas) promoting the K-State Science Communication week and	2018
my research	2017
- television: 13 WIBW (Kansas) "Red Couch" segment, promoting the K-State Science	2017
Communication week	2017
Interviewed for public print media:	
- Birds and Bloom Magazine, upcoming article on Red-winged Blackbirds	2022
- National Audubon Society article about brood parasitism	2022
- Birds and Bloom magazine article: "How long do baby birds stay in the nest and more	2022
nest facts" https://tinyurl.com/2df86e8e	
- Audubon Magazine article about the Ohio Young Birders Club and my career:	2019
https://tinyurl.com/y42hss6s	
- 46 Questions for Scientists feature, https://tinyurl.com/t65f3jh	2019
- National Audubon Society article about human interference and cowbird parasitism:	2018
https://tinyurl.com/ycaxxlrd	2010
- SEEK magazine (Kansas State): "Taking research to the nest level: Prairie songbird	2018
biologist engages public in her work on nestlings"	2010
 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	2023
LGBTQ+ Pride Festival	
- "Science Communication and Outreach," UIUC Graduate Students in Ecology and	2022
Evolutionary Biology EcoLunch series	
- "Cowbirds: villainous mobsters or falsely maligned native species? A biologist's	
perspective" to:	2022
- 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) "Effects of brood parasitism on nestling growth and development," Three-Minute 	2018 2018
Thesis Competition (Kansas) - "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	2018-2022
- led discussion about ecology careers and a hands-on workshop about hypothesis	2018
testing/bird migration for middle school girls, Enhancing Your Future, Emporia State (Kansas)	
- 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:	
- 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

Online science communication and advocacy efforts: - run a Twitter account (@skwinnicki) with >9,000 followers tuning in for science facts 2018- post videos of wildlife, science methods to a YouTube account with >125,000 views 2019- hosted a Twitter "Ornitholoday" event for the British Ornithologists' Union, tweeting 2019 about grassland bird development 170 times over 9 hours - featured on 500 Queer Scientists: https://intyurl.com/y9wph98f 2018 - contributed blog posts to the Kansas State University science blog Science Snapshots 2018 Science Communication Awards and Honors: - Finalist, British Ornithological Union Science Communication Award 2020 - invited speaker, SciComm conference (Kansas), presented: "Hashtags, captions, 2019 albums, lists? Observations about different audience-specific communication styles on Twitter, Facebook, and YouTube." - 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" - Student Presentation Award, Kansas Ornithological Society - one of four graduate students invited to speak at the Kansas State University Division of Biology 50th Anniversary meeting - James E. Ackert Award for Outstanding Graduate Student Presentation, Kansas State University Division of Biology - Best Presentation Style Award, Ecology and Evolutionary Biology Graduate Students on Parade (Kansas State University) - Student Presentation Award, Kansas Ornithological Society - crowd-voted best student science presentation, Ohio Avian Research Conference Science Communication Training and Certifications: - STEM workshop leader for the Education Justice Project, a prison outreach program (Illinois) with associated training for science communicators seeking to educate and advocate for incarcerated adults - Science Communication Fellow, Sunsel Zoo (Kansas) - Tanied in science blog writing through a workshop with Kansas State and the Sunset Zoo (Kansas) OTHER EMPL	- led community bird walks for the Central Ohio Audubon Club	2012-2016
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- hosted a Twitter "Ornitholoday" event for the British Ornithologists' Union, tweeting about grassland bird development 170 times over 9 hours - 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: - 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." - 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" - 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 James E. Ackert Award for Outstanding Graduate Student Presentation, Kansas State University Division of Biology Best Presentation Style Award, Ecology and Evolutionary Biology Graduate Students on Parade (Kansas State University) - 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 (Illinois) with associated training for science communicators seeking to educate and 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 Zoo (Kansas) 2017 - trained in science blog writing through a workshop with Kansas State and the Sunset Zoo (Kansas) 2017 - trained in sc	-	
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Biology Drop-in Tutor, Denison University Biology Department 2014-2016	Field Technician and Crew Leader, Kansas State University	2016
	Biology Head Tutor, Denison University Academic Support and Enrichment	2015-2016
Student Research Assistant, Denison University Libraries 2014	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 birds; 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

Lab skills:

Undergraduate work (2013-2016): curated a museum collection of bird study skins Konza project (2014-2018): DNA extraction from bird blood; PCR and microsatellite ABI genotyping

PhD research (2019-present): Raising quail embryos in lab incubators; measuring developing embryos; extracting and preparing egg yolk hormone samples for mass spectrometry analysis; PCR and molecular sexing; 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