

# Sarah K. Winnicki

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## EDUCATION

**PhD (Program in Ecology, Evolution, & Conservation Biology) *in progress***, University of Illinois at Urbana-Champaign, Aug 2019-  
*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*  
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**. Knemidokoptic mite infestation of island populations of Red-winged Blackbirds (*Agelaius phoeniceus*). *In press for Wilson Journal of Ornithology*.
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*, 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. Effects of patch-burn grazing on 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.

Smith, E.B., A. Roe, K. Silber, E.J. Williams, **S.K. Winnicki**, and W.A. Boyle. Consequences of drought for grassland songbird reproduction. *In revision for Ecosphere*.

#### SCHOLARSHIPS & FELLOWSHIPS

<b>Illinois Distinguished Fellowship</b> , University of Illinois at Urbana-Champaign. For PhD research. \$75,000.	2019-2024
<b>FOSZ Conservation Scholarship</b> , Friends of the Sunset Zoo, Manhattan KS. For purchase of VHF radio transmitters. \$2000.	2018
<b>Graduate Research Fellowship</b> , National Science Foundation, Graduate support for studies in Life Science—Ecology. \$132,000.	2016-2019
<b>NSF Research Experience for Undergraduates (REU)</b> , Kansas State University, Advisor: Dr. W. Alice Boyle. Supplemental REU program extension, included peer mentoring. \$5000.	2015
<b>Kenneth I. Brown Scholarship</b> , Denison University, for academic achievement. \$2000.	2015
<b>Allen Price Memorial Scholarship</b> , Denison University, for achievement in the History Department. \$1000.	2015
<b>NSF Research Experience for Undergraduates (REU)</b> , Kansas State University, Advisor: Dr. W. Alice Boyle. \$5000.	2014
<b>Anderson Scholarship for Excellence in Science</b> , Denison University, for research potential and academic achievement in the STEM fields. \$89,340.	2014-2016
<b>Research Experience for Undergraduates (REU)</b> , F.T. Stone Laboratory, The Ohio State University, Advisor: Dr. James Marshall (Rockford University).	2013
<b>Paschal Carter Scholarship</b> , Denison University, for National Merit Scholars. \$160,000.	2012-2014
<b>Great Opportunities Fellowship</b> , Denison University, to assist with research supplies and travel. \$3000.	2013

#### AWARDS & HONORS

<b>Finalist</b> , British Ornithological Union Science Communication Award	2020
<b>Recognition of Achievement</b> , Kansas State College of Arts and Sciences	2019
<b>Science Communication Award</b> , Kansas Science Communication Initiative, \$500	2019

<b>Invited Keynote Speaker</b> , 12 <sup>th</sup> Annual Ohio Young Birders Conference, \$100.	2018
<b>Student Presentation Award</b> , Kansas Ornithological Society Fall Meeting, \$50.	2018
<b>Best Presentation Style Award</b> , Ecology and Evolutionary Biology Graduate Students on Parade (internal).	2018
<b>James E. Ackert Award</b> , for Outstanding Graduate Student Presentation, awarded by the Kansas State University Division of Biology (internal), \$500.	2018
<b>Invited speaker</b> at the Kansas State University of Biology 50 <sup>th</sup> Anniversary Celebration, one of four graduate students invited.	2018
<b>Student Presentation Award</b> , Kansas Ornithological Society Fall Meeting, \$50.	2016
<b>William T. Utter Prize</b> , Denison University History Department, for best year-long history thesis. \$700.	2016
<b>Michael and Amy Gordon Award in European History</b> , Denison University History Department, for best European history thesis. \$1868.	2016
<b>President's Medal</b> , Denison University, for academic achievement, service, and leadership.	2016
<b>A. Blair Knapp Award</b> , Denison University Gilpatrick Center, for academic achievement. \$100.	2016
<b>Senior Fellow</b> , Denison University Biology Department.	2016
<b>Sigma Xi Associate Membership</b> , sponsored by the Denison Biology Department, for achievements in scientific research.	2016
<b>Undergraduate Research Presentation Award</b> , Ohio Avian Research Conference, crowd-voted best oral presentation.	2015
<b>Phi Beta Kappa</b> , Denison University, for academic achievement.	2015
<b>Margaret Ann Watkins Award</b> , Denison University Biology Department, for achievements in biology. \$100.	2015
<b>Mortar Board</b> , Denison University, for academic achievement and service.	2015-2016
<b>Dr. David R. Osborne Ornithology Prize</b> , Ohio Avian Research Conference, for best student oral presentation. \$100.	2014
<b>Carolyn Craig &amp; Carl M. Franklin Student Service Award</b> , Denison University Libraries, for contributions as a library student employee. \$100.	2014
<b>Department Fellow</b> , Denison University History Department.	2014-2016
<b>Phi Alpha Theta</b> , Denison University History Department, history honorary.	2014-2016
<b>Phi Society</b> , Denison University, academic honorary.	2013
<b>Dean's List</b> , Denison University, all semesters.	2012-2016
<b>National Merit Scholar</b> .	2012-2016

#### GRANTS & TRAVEL AWARDS

<b>Summer Research Grant</b> , UIUC PEEC, for dissertation research, \$2000.	2021
<b>Lebus Research Award</b> , UIUC SIB, for dissertation research, \$1000.	2021
<b>Dissertation Travel Grant</b> , UIUC Graduate College, for research travel, \$2,474.42.	2020
<b>Summer Research Grant</b> , UIUC PEEC, for dissertation research, \$1000.	2020
<b>Harley J. Van Cleave Research Award</b> , UIUC SIB, to support summer research, \$1000.	2020
<b>Student Travel Award</b> , UIUC Graduate College, for travel to 2020 NAOC meeting in Puerto Rico, \$325.	2019

<b>PEEC Travel Grant</b> , UIUC, for travel to 2020 NAOC meeting, \$700.	2019
<b>Student Travel Award</b> , American Ornithological Society, for travel to 2019 meeting in Alaska, \$580.	2019
<b>Bruce Steward Travel Award</b> , Southwestern Association of Naturalists, for travel to 2019 meeting in Mexico, \$542.	2019
<b>Student Travel Award</b> , Kansas State University Graduate Student Council, to support travel to the 2018 IOC meeting, Vancouver, BC, \$675.	2018
<b>Student Travel Award</b> , Kansas State University College of Arts & Sciences, to support travel to the 2018 IOC meeting, Vancouver, BC, \$800.	2018
<b>Student Research Grant</b> , Kansas State University Biology Graduate Student Association, to purchase VHF radio transmitters, \$500.	2018
<b>American Ornithological Society Travel Award</b> , to support travel to the 2018 AOS meeting, Tucson AZ, \$300.	2018
<b>Sigma Xi Grant-in-Aid of Research</b> , Sigma Xi, \$1000.	2017
<b>Howard McCarley Student Research Award</b> , Southwestern Association of Naturalists, to support student research, \$1000.	2017
<b>Wilson Ornithological Society Travel Award</b> , to support travel to the North American Ornithological Conference, Washington DC, \$170.	2016
<b>Wilson Ornithological Society Travel Award</b> , to support travel to the Wilson Ornithological Society/Society of Canadian Ornithologists/Societe des Ornithologistes du Canada /Association of Field Ornithologists joint meeting, Wolfsville NS, \$1112.75.	2015
<b>Gilpatrick Center Student Research Grant</b> , Denison University, to support senior research. \$200.	2015
<b>Gilpatrick Center Student Research Grant</b> , DU, to support genotyping research. \$500.	2014
<b>Student Research Grant</b> , Kansas Ornithological Society, \$600.	2014
<b>Horizon Fund Grant</b> , Denison University Division of Student Development, to support genotyping research. \$1000.	2014

## PRESENTATIONS

Winnicki, S.K., T.J. Benson, R.T. Paitz, and M.E. Hauber. “Egg-laying order, maternal effects, and embryonic growth in American Robins.” American Ornithological Society (virtual), 13 Aug 2021.

Winnicki, S.K., T.J. Benson, and M.E. Hauber. “Egg-laying order, maternal effects, and embryonic growth in American Robins.” Animal Behavior Twitter Conference (virtual), 27 Jan 2021.

Winnicki, S.K., T.J. Benson, M.E. Hauber, and R.T. Paitz. “Maternal hormone investment does not match embryonic growth rate in quail.” North American Ornithological Conference, virtual (poster), 12 Aug 2020; Animal Behavior Society, virtual (oral), 31 Jul 2020.

Winnicki, S.K. and W.A. Boyle. “Direct effects of Brown-headed Cowbird (*Molothrus ater*) brood parasitism on the growth and development of grassland songbirds.” American Ornithological Society meeting, Anchorage AK (oral), 27 Jun 2019.

Winnicki, S.K. and W.A. Boyle. “Direct effects of 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.” Southwestern Association of Naturalists meeting, Chihuahua City Mexico (oral), 13 Apr 2019.

Winnicki, S.K. “Hashtags, captions, albums, lists? Observations about different audience-specific communication styles on Twitter, Facebook, and YouTube.” SciComm 2019 conference, Manhattan KS (oral), 24 Mar 2019.

Winnicki, S.K., S.M. Munguía, E.J. Williams, and W.A. Boyle. “Territory aggregation is related to nest success but is not driven by social interactions in a grassland songbird.” Kansas Natural Resources Conference, Manhattan KS (oral), 31 Jan 2019.

Winnicki, S.K. and W.A. Boyle. “Direct effects of Brown-headed Cowbird (*Molothrus ater*) brood parasitism on the growth and development of grassland songbirds.” Kansas Ornithological Society fall meeting, Lawrence KS (oral), 6 Oct 2018; International Ornithological Congress, Vancouver BC Canada (poster), 23 August 2018.

Winnicki, S.K. and W.A. Boyle. “The direct effects of Brown-headed Cowbird brood parasitism on the growth and development of grassland songbirds.” Kansas State University Division of Biology 50<sup>th</sup> Anniversary meeting (internal), Manhattan KS (invited oral), 21 April 2018.

Winnicki, S.K. and W.A. Boyle. “The effects of Brown-headed Cowbird brood parasitism on the growth and development of grassland songbirds.” American Ornithological Society annual meeting, Tucson AZ (oral), 12 April 2018; Kansas Natural Resources Conference, Manhattan KS (oral), 9 Feb 2018.

Winnicki, S.K., E. Harris, B. Rosado Ramos, D. Savage, and W. A. Boyle. “The role of brood parasitism in shaping nestling growth and development strategies: preliminary results.” Kansas Ornithological Society fall meeting, Junction City KS (oral), 7 Oct 2017.

Winnicki, S.K. and W.A. Boyle. “Complex drivers of Grasshopper Sparrow (*Ammodramus savannarum*) nest success.” American Ornithological Society/Society of Canadian Ornithologists/SOC meeting, East Lansing, MI (poster), 3 Aug 2017; Kansas Natural Resources Conference, Wichita KS (poster), 26 Jan 2017.

Winnicki, S.K. and W.A. Boyle. “Causes of Grasshopper Sparrow (*Ammodramus savannarum*) density variation: parasitism, cooperative care, and extra-pair paternity” Kansas Ornithological Society fall meeting, Garden City KS (oral), 1 Oct 2016; North American Ornithological Conference, Washington DC (oral), 20 Aug 2016.

Winnicki, S.K. and W. A. Boyle. “Aggregation of Grasshopper Sparrow (*Ammodramus savannarum*) territories: effect of extra-pair paternity, cooperative care, and kinship” Ohio Avian Research Conference, Granville OH (oral), 17 Oct 2015; American Ornithologists’ Union/Cooper Ornithological Society, Norman OK (oral), 31 Jul 2015; WOS/SCO-SOC/AFO, Wolfville NS (oral), 18 Jul 2015.

Winnicki, S.K. and W. A. Boyle. “Aggregation of Grasshopper Sparrow (*Ammodramus savannarum*) territories: a test of the extra pair mating and cooperative care hypotheses” Ohio Avian Research Conference, Granville OH (oral), 18 Oct 2014.

Winnicki, S.K. and J. Marshall. "Population Biology of the Red-winged Blackbirds on the Lake Erie Islands" Wilson Ornithological Society/Association of Field Ornithologists, Newport RI (poster), 30 May 2014; Ohio Avian Research and Conservation Conference (oral and poster), Granville OH, Oct 2013.

## TEACHING AND MENTORING EXPERIENCE

**Co-mentored three REU students:** E. Harris (Beloit College), B. Rosado Ramos (Universidad del Turabo), and D. Savage (Kansas State University), summer 2017

**Trained field technicians:** fifteen Kansas State undergraduate students from 2016-2018

**Trained lab technicians:** ten Kansas State undergraduate students from 2016-2019

**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

## SCIENCE COMMUNICATION AND OUTREACH

**Presented** "Teaching the Scientific Process: Linking Hypotheses to Data Using Migratory Birds" to the Western Cuyahoga (Ohio) Audubon Society; <https://tinyurl.com/5akkjhzd> 2021

**Presented** "Evolution of brood parasitism" to Ayatana Artists Research Program 2021

**Presented** "Cowbirds: villainous mobsters or falsely maligned native species? A biologists' perspective" to:

Black Swamp Bird Observatory (Ohio) Birds at Home Keynote, June 2021

Chicago Ornithological Society: Birds & Bytes, May 2021

K-State Johnson County Extension Master Naturalist Program, October 2021

Grosse Point Audubon Society (Michigan), November 2021	
<b>Presented</b> on cowbird breeding biology to a SUNY Geneseo Animal Behavior class	2021
<b>Interviewed for</b> The American Birding Podcast, spoke about cowbirds; <a href="https://tinyurl.com/yvdy5tzb">https://tinyurl.com/yvdy5tzb</a>	2021
<b>Presented</b> “Cowbirds: villainous mobsters or falsely maligned native species? A biologist’s perspective” to Wichita (Kansas) Audubon Society; <a href="https://tinyurl.com/dwupy3aw">https://tinyurl.com/dwupy3aw</a>	2020
<b>Presented</b> “Evolution of brood parasitism” to Ayatana Artists Research Program	2020
<b>Finalist</b> , British Ornithological Union Science Communication Award	2020
<b>Managed symposium Twitter account</b> for Graduates in Ecology and Evolutionary Biology research symposium	2020
<b>Managed conference Twitter account</b> for the Sensorium 2019 conference	2019
<b>Featured Scientist</b> , 46 Questions for Scientists program, <a href="https://tinyurl.com/t65f3jh">https://tinyurl.com/t65f3jh</a>	2019
<b>Hosted a Twitter “Ornitholoday” event</b> for the British Ornithologists’ Union, tweeting about grassland bird development 170 times over 9 hours	2019
<b>Interviewed for Audubon Magazine</b> article about the Ohio Young Birders Club and my career: <a href="https://tinyurl.com/y42hss6s">https://tinyurl.com/y42hss6s</a>	2019
<b>Presented</b> “Growing up Prairie: Insights from the sparrows,” invited keynote at the 12 <sup>th</sup> Annual Ohio Young Birders Club conference, Columbus OH, 3 Nov 2018	2018
<b>Radio guest</b> on 89.7 NPR News’ All Sides With Ann Fisher, promoting the Ohio Young Birders Club conference and answering questions about science communication	2018
<b>Featured graduate student</b> , fall 2018 SEEK magazine article “Taking research to the nest level: Prairie songbird biologist engages public in her work on nestlings”	2018
<b>Featured Scientist at Science on Tap</b> , Tallgrass Taphouse, Manhattan KS	2018
<b>Radio guest</b> on KSDB radio to promote Science on Tap program	2018
<b>Participant in the Letters to a Pre-Scientist pen-pal program</b>	2018-2019
<b>Presented on wildlife career and research</b> for the K-State Wildlife Society	2018
<b>Featured on the “Fantastic Women in Science” blog</b> , interviewed about my science and experiences with gender, sexuality, and mental illness: <a href="https://tinyurl.com/y7u6hfua">https://tinyurl.com/y7u6hfua</a>	2018
<b>Contributor to 500 Queer Scientists</b> : <a href="https://tinyurl.com/y9wph98f">https://tinyurl.com/y9wph98f</a>	2018
<b>Interviewed for Audubon article</b> about human interference and cowbird parasitism: <a href="https://tinyurl.com/ycaxxlrld">https://tinyurl.com/ycaxxlrld</a>	2018
<b>Led a discussion about ecology careers and a hands-on workshop</b> about hypothesis testing and bird migration for middle school girls at the 2018 Enhancing Your Future event, Emporia KS	2018
<b>Contributed blog posts</b> to the Kansas State University science blog Science Snapshots	2018
<b>Participant in the Three-Minute Thesis Competition</b> "Effects of brood parasitism on nestling growth and development" Manhattan, KS 13 Feb 2018	2018
<b>Participant in the Skype-A-Scientist program</b> ,	2018-2019
with three classrooms of eighth graders from Stetson Hills AZ, Spring 2018	
with four classrooms of eleventh and twelfth graders from Aubrey TX, Fall 2018	
with two classrooms of fifth graders from Tinley Park IL, Spring 2019	
with two classrooms of fifth graders from Mansfield MA, Spring 2019	
with one classroom of twelfth graders from Tulsa OK, Spring 2019	
with two classrooms of tenth graders from Midlothian, VA, Fall 2019	

<b>Science Communication Fellow</b> , Sunset Zoo, Manhattan KS. Completed communication training and designed a project that presents my research to school-age children. I have offered this outreach activity at the: University-wide science communication meet-and-greet, November 2017 Sunset Zoo Science Saturday, November 2017 Sunset Zoo Science Saturday, December 2017	2017
<b>Presented at “Think and Drink” community event</b> , hosted by Arrow Coffee, Manhattan KS	2017
<b>Guest on 91.9 KSDB radio</b> , promoting the K-State Science Communication week and taking about my research, Manhattan KS	2017
<b>Presented images at the Science Communication Scholarship Expo</b> , Kansas State Libraries, Manhattan KS	2017
<b>Participated in the “Ask a Scientist” event</b> , answering community members’ questions about science, Manhattan KS	2017
<b>Guest on 13 WIBW “Red Couch” television segment</b> , promoting the K-State Science Communication week, Topeka KS	2017
<b>Provided video/multimedia to and consulted on an educational videogame</b> with the Kansas State University Advanced Landscape Immersion and Visualization Environment laboratory. 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
<b>Trained in Science Communication blog writing</b> through a workshop with Kansas State and the Sunset Zoo, Manhattan KS	2017
<b>Prepared and presented a hands-on workshop</b> with Dr. Alice Boyle that encouraged middle-school girls to make predictions and relate beak morphology, diet, and migration tendencies at the Enhancing Your Future 2017 event in Emporia KS	2017
<b>Designed and presented an educational game</b> intended to teach middle-schoolers about the politics of science funding and medical responses to epidemics, at a GROW (Girls Researching Our World) workshop, Manhattan KS	2016
<b>Participated in an Active Learning workshop</b> designed to teach science educators better teaching techniques, Division of Biology, Kansas State University	2016
<b>Presented “Avian Adieu,”</b> an introduction to bird migration and conservation, to elementary students at the Granville Public Library, Granville OH	2015
<b>Helped Junior Girl Scouts</b> plan a conservation-based GS Journey/Bronze Award project, Newark OH	2015
<b>Presented</b> “Surveying Natural Selection: Evolution in the Galapagos, on the Lake Erie Islands, and in Our Classrooms” to a public audience at a Kirtland Bird Club meeting Cleveland OH (oral), and the Medina County Parks District Environmental Speaker series Medina OH (oral)	2014
<b>Led community bird walks</b> for the Central Ohio Audubon Club	2012-2016
<b>Presented</b> “Birding With Your Family: Tips to Get the Whole Family Out Birding!” with W. Miller to a public audience at the Midwest Birding Symposium, Marblehead OH (oral)	2011
<b>Presented</b> “Cornell Lab of Ornithology’s Young Birders’ Event Review” at the 4 <sup>th</sup> Annual Ohio Young Birders Club Conference, Dayton OH (oral)	2010



**Presented** “Birding 101” with W. Miller to a public audience at the Shreve Migration Sensation, Shreve OH (oral) 2010

**Presented** “California Condors: A Conservation Story” at the 3<sup>rd</sup> Annual Ohio Young Birders Club Conference, Oak Harbor OH (oral), Nov 2009, and at a Kelley’s Island Audubon Society Meeting, Kelley’s Island OH (oral), Jun 2010. 2009-2010

### SERVICE

**Web Manager**, Rainbow Lorikeets (American Ornithological Society LGBTIA+ caucus) 2022-

**Webmaster**, Graduates in Ecology and Evolution society 2020-2021

**SafeZone Advocate**, trained ally to minority students 2018

**Reviewer**, Journal of Field Ornithology 2018

**Web Manager, Reviewer, Author**, 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 2014-2015

**Corresponding Secretary and Editor**, Cleveland’s Kirtland Bird Club 2013-2015

**Secretary**, Denison University Hillel 2013-2015

**President**, Denison University Quidditch Team 2014-2016

**Secretary**, Denison University Quidditch Team 2014-2016

**Youth Advisory Board Panel**, Ohio Young Birders Club 2009-2012

### 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

**Undergraduate Research Assistant**, Denison University History Department 2014

**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

### SKILLS

Edited and helped produce lab promotional videos using **Adobe Premiere Pro**

Comfortable with Microsoft Office, especially **Word, PowerPoint, Excel, and Access**

Two semesters of classwork with **ESRI arcMap**, continued use since

Formal coursework and continued use of **R** and **RStudio**, especially *ggplot2*

Formal training with **Program MARK** and *RMark*

Continued use of **Dropbox** and **Box** to collaborate and manage data sets

**Field skills:**

Undergraduate research (1 year): passive mist netting to capture birds; rowing boats to island research sites; recording and entering field data

Konza project (5 years): 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 work (2 years-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

**Lab skills:**

Undergraduate work (3 years): curated a museum collection of bird study skins

Konza project (5 years): DNA extraction from bird blood; PCR and microsatellite ABI genotyping

PhD work (2 years-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