

Associate Professor of Biology
Arkansas Tech University
Department of Biological Sciences
1701 North Boulder Avenue
Russellville, AR 72801
(479) 880-4182

Email: dbarron@atu.edu

Website: <http://douglasbarron.weebly.com>

EDUCATION

2014 Ph.D., Zoology
 Washington State University, Pullman, WA
 Advisor: Hubert Schwabl

2009 M.S., Ecology, Evolution, and Conservation Biology
 University of Illinois, Urbana-Champaign, IL
 Advisors: Jeffrey Brawn & Patrick Weatherhead

2005 B.S., Biological Sciences
 Louisiana State University, Baton Rouge, LA

PROFESSIONAL APPOINTMENTS

Associate Professor, Arkansas Tech University, Russellville, AR, 2021-present

Assistant Professor, Arkansas Tech University, Russellville, AR, 2016-2021

Visiting Assistant Professor, Arkansas Tech University, Russellville, AR, 2015-2016

Adjunct Instructor, American Public University System, Charles Town, WV, 2012-present

Postdoctoral Scholar, University of South Florida, Tampa, FL, 2014-2015

Research Assistant: Biotic Response to Global Change, Washington State University, Pullman, WA, 2013-2014

Biological Contractor, US Army ERDC-CERL, Fairchild Air Force Base, WA, 2013

Graduate Teaching Assistant, Washington State University, Pullman, WA, 2012-2013

NSF IGERT Program in Evolutionary Modeling Fellow, Washington State University, Pullman, WA, 2009-2011

Research Technician, Illinois Natural History Survey, Champaign, IL, 2009

Graduate Research Assistant, University of Illinois, Urbana-Champaign, IL, 2007-2009

Research Technician, South Dakota State University, Rhame, ND, 2006-2007

Seasonal Field Botanist, The Nature Conservancy, Fort Hood, TX, 2006

Avian Field Technician, The Nature Conservancy, Fort Hood, TX, 2006

Academic Tutor, Louisiana State University, Baton Rouge, LA, 2005

Intern Ornithologist, Klamath Bird Observatory, Ashland, OR, 2004

AWARDS AND HONORS

Sabbatical Granted, Arkansas Tech University, 2023

Teaching Excellence Award, Department of Biological Sciences, Arkansas Tech University, 2021

Online Innovation Award, Arkansas Tech University, 2019

Scholarship Excellence Award, Department of Biological Sciences, Arkansas Tech University, 2018

Aubrey Gorbman Award, Honorable Mention, Society for Integrative and Comparative Biology, 2015
Research Assistantship on Biotic Response to Global Change, Washington State University (\$15,858), 2013-2014
Guy Brislawn Memorial Graduate Scholarship, Washington State University (\$2,500), 2013
James R. King Fellowship in Zoology, Washington State University (\$3200), 2012
Student Spoken Presentation Award 1st Prize, Australasian Ornithological Conference, 2011
Ian Rowley Memorial Award, Australasian Ornithological Conference, 2011
NSF IGERT Fellowship in Evolutionary Modeling, Washington State University (\$75,000), 2009-2011
Dean's List, Louisiana State University, 2001-2005
Tuition Exemption Scholarship, Louisiana State University, 2001-2005

GRANTS (>\$245k Total)

Creation of an Outdoor Classroom, Innovation Grant, Arkansas Tech University (PI: \$138,678), 2023
Faculty Development Grant, Arkansas Tech University (\$1,500), 2023.
Ozark Breeding Bird Point Counts, USDA Forest Service (PI: \$11,367.75), 2022.
Solar-Powered Mobile "Recycling Art Cart" Sculpture for Transporting Campus Recycling Materials, Pepsi Zero Impact Fund (PI: \$10,000), 2020
Development of a radio-frequency identification datalogger network that tracks feeder use by individual birds, Arkansas Tech University Interdisciplinary Research Grant (PI: \$5,478), 2019
Faculty Development Grant, Arkansas Tech University (\$2,500), 2019
Faculty Development Grant, Arkansas Tech University (\$1,800), 2018
Faculty Development Grant, Arkansas Tech University (\$452), 2018
Design and Implementation of a Real-Time Internet-of-Things Based Water Quality Monitoring System for Lake Dardanelle, Arkansas Tech University Interdisciplinary Research Grant (\$8,000), 2017
Undergraduate Research Grant, Arkansas Tech University (\$1,700), 2017
Faculty Development Grant, Arkansas Tech University (\$2,494), 2017
Mosquito Rearing to Aid Surveillance of Mosquitoes in Arkansas, Arkansas Department of Health (\$9,000), 2017
Mosquito Rearing to Aid Surveillance of Mosquitoes in Arkansas, Arkansas Department of Health (\$15,000), 2016
Undergraduate Research Grant, Arkansas Tech University (\$1,560), 2016
Faculty Research Grant, Arkansas Tech University (\$1,480), 2016
Faculty Research Grant, American Public University (\$4,612), 2016
CAS Awards Program, University of South Florida (\$1,500), 2014
Student Research Grant, Palouse Audubon Society (\$500), 2014
Student Travel Award, International Society for Behavioral Ecology (\$750), 2014
Student Travel Award, American Ornithologists' Union and Cooper Ornithological Society (\$590), 2013
Carl H. Elling Travel Grant, Washington State University (\$9,169), 2011-2014
National Science Foundation IGERT-IPEM Research Fund, Washington State University (\$16,000), 2009-2011
Marsha Brady Tucker Travel Award, American Ornithologists' Union (\$433), 2009
Program in Ecology, Evolution and Conservation Biology Travel Grant, University of Illinois (\$500), 2008

JOURNAL PUBLICATIONS (*h-index* = 9, *citations* = 781)

*Undergraduate authors indicated by asterisk

Jones, A. N.*, E. C. Lovely, and **D. G. Barron**. 2021. Spatial and temporal variation in *Aedes albopictus* prevalence across Arkansas. *Journal of the Arkansas Academy of Science* 75: 23-28.

Boersma, J., **D. G. Barron**, D. T. Baldassarre, M. S. Webster, and H. Schwabl. 2021. Wildfire affects expression of male sexual plumage through suppressed testosterone circulation in a tropical songbird. *Journal of Avian Biology* 52: e02757. <https://doi.org/10.1111/jav.02757>¹

- Also published as preprint in *bioRxiv*
- Featured in *Science Daily*, *New Scientist*, *Inside Science*, *Daily Advent*, *United News Post*, *iNewsly Media*, *Knowledia*, *ErnesTech*, *Poetry of Science Podcast*, *Spokane Public Radio*

M. Khan, **D. G. Barron**, R. Patil, M. Nannemann*, and M. Courson*. 2020. Internet of things based remote sensing for ornithological monitoring. Institute of Electrical and Electronics Engineers Green Technologies Conference (GreenTech): 71-73.

Sanchez, E. E.*, J. D. Maddox, and **D. G. Barron**. 2019. De novo development and characterization of tetranucleotide microsatellite loci markers from a southeastern population of the House Finch (*Haemorhous mexicanus*). *Journal of the Arkansas Academy of Science* 73:46-50.

Uysal, A. K, L. B. Martin, N. D. Burkett-Cadena, **D. G. Barron**, and T. Shimizu. 2018. Simulated viral infection in early-life alters brain morphology, activity, and behavior in zebra finches (*Taeniopygia guttata*). *Physiology and Behavior* 196: 36-46.

Lindsay, W. R., **D. G. Barron**, M. S. Webster, and H. Schwabl. 2016. Testosterone activates sexual dimorphism including male-typical carotenoid but not melanin plumage pigmentation in a female bird. *Journal of Experimental Biology* 219: 3091-3099.

- Featured in "Inside JEB"

Potticary, A. L.*, J. L. Dowling, **D. G. Barron**, D. T. Baldassarre, and M. S. Webster. 2016. Subtle benefits of cooperation to breeding males of the Red-backed Fairywren. *The Auk* 133: 286-297.

Barron, D. G., S. S. Gervasi, J. N. Pruitt, and L. B. Martin. 2015. Behavioral competence: how host behaviors can interact to influence parasite transmission risk. *Current Opinions in Behavioral Sciences* 6: 35-40.

Barron, D. G., M. S. Webster, and H. Schwabl. 2015. Do androgens link morphology and behavior to produce phenotype-specific behavioral strategies? *Animal Behaviour* 100: 116-124.

H. Schwabl, Lindsay, W. R., **D. G. Barron**, and M. S. Webster. 2014. Endocrine correlates of mate choice and promiscuity in females of a socially monogamous avian mating system with alternative male reproductive phenotypes. *Current Zoology* 60: 804-815.

Barron, D. G., M. S. Webster, and H. Schwabl. 2013. Body condition influences sexual signal expression independent of circulating androgens in male red-backed fairy-wrens. *General and Comparative Endocrinology* 183: 38-43.

Barron, D. G., P. J. Weatherhead, and J. D. Brawn. 2013. A test of radio transmitter effects on parental investment and productivity in Northern Cardinals. *The Condor* 115: 669-676.

Sperry, J. H., **D. G. Barron**, and P. J. Weatherhead. 2012. Snake behavior and seasonal variation in nest survival of northern cardinals (*Cardinalis cardinalis*). *Journal of Avian Biology* 43:496-502.

Barron, D. G., J. D. Brawn, L. K. Butler, L. M. Romero, and P. J. Weatherhead. 2012. Effects of military activity on breeding birds. *Journal of Wildlife Management* 76: 911-918.

- Featured in *The Wildlife Professional*

Barron, D. G., J. D. Brawn, and P. J. Weatherhead. 2010. Meta-analysis of transmitter effects on avian behaviour and ecology. *Methods in Ecology and Evolution* 1:180-187.

BOOK CHAPTERS

Barron, D. G., A. K. Uysal, S. L. Kellogg, and T. Shimizu. 2016. Cognition as a target and facilitator of sexual selection. *in* M. C. Olmstead, editor. *Animal Cognition: Principles, Evolution, and Development*. NOVA Science Publishers, Hauppauge, NY.

GOVERNMENT REPORTS

Hayden, T. J., L. K. Butler, I. Bisson, M. Wikelski, **D. G. Barron**, and P. Kelley. 2009. Physiological response and habituation of endangered species to military training activities: SERDP Project SI-1396 Final Report. Department of Defense, Strategic Environmental Research and Development Program, www.serdp.org. 139 pp.

THESES

Barron, D. G. 2014. Proximate causes and ultimate consequences of phenotypic variation in male red-backed fairy-wrens. Ph.D. Dissertation, Washington State University, Pullman, WA.

Barron, D. G. 2009. Applied aspects of avian reproduction at Fort Hood, TX. M.S. Thesis, University of Illinois, Urbana-Champaign, IL.

INVITED SEMINARS

Barron, D. G. 2019. Best practices in online course development. CETL Online Professional Development Series, Arkansas Tech University, Russellville, AR.

Khan, M., C. Mebi, **D. G. Barron**, V. Agubra, N. Wu, and R. Patil. Internet of Things (IoT) Applications. 2018 IEEE Arkansas River Valley Section Meeting. Russellville, AR.

Barron, D. G. 2017. Bringing sexy back: Proximate and ultimate forces underlying phenotypic variation in breeding songbirds. Illinois Natural History Survey, Champaign, IL.

Barron, D. G. 2017. Don't (only) sweat the small stuff: Towards a whole-organism understanding of animal behavior. Keynote speaker. Junior Science and Humanities Symposium, Arkansas Tech University, Russellville, AR.

Barron, D. G. 2016. Lessons from the human-animal interface. Department of Biological Sciences, Arkansas Tech University, Russellville, AR.

Barron, D. G. 2015. Proximate causes and ultimate consequences of phenotypic variation. Department of Integrative Biology, University of South Florida, Tampa, FL.

Barron, D. G. 2014. Proximate causes and ultimate consequences of phenotypic variation. Psychology Department, University of South Florida, Tampa, FL.

Barron, D. G. 2014. Proximate causes and ultimate consequences of phenotypic variation in male red-backed fairy-wrens. School of Biological Sciences, Washington State University, Pullman, WA.

Barron, D.G., R. K. Bocinsky, D. Grunspan, B.A. Newbold, B. Roosien, and D. Trumbo. 2011. Tracking the memetics 'meme': towards a better understanding of the transmission and evolution of scientific concepts. NSF IGERT-IPEM Seminar, Washington State University, Pullman, WA.

Barron, D. G., W. R. Lindsay, M. S. Webster, and H. Schwabl. 2010. Early life conditions influence adult reproductive phenotype in a cooperatively breeding bird. CSIRO Sustainable Ecosystems Seminar, Atherton, QLD.

CONFERENCE PRESENTATIONS

**Undergraduate authors indicated by asterisk*

Barron, D. G. 2022. School mask mandates decrease Covid-19 transmission in the schools and surrounding communities. Arkansas Academy of Science Conference. Oral Presentation.

Jones, A. N.*, **D. G. Barron**, and E. C. Lovely. 2021. Mapping spatial and temporal variation in *Aedes albopictus* prevalence across Arkansas. Arkansas Academy of Science Conference. Oral Presentation.

Nannemann, M.*, **D. G. Barron**, R. Patil, and M. Khan. 2021. IoT Based Remote Sensing for Ornithological Monitoring. Institute for Electrical and Electronics Engineers Region 5 Conference. Poster Presentation.

- *Awarded 2nd place in Region 5 Poster Competition*

M. Khan, **D. G. Barron**, R. Patil, M. Nannemann, and M. Courson. 2020. Internet of things based remote sensing for ornithological monitoring. Institute of Electrical and Electronics Engineers Green Technologies Conference, Oklahoma City, OK. Oral Presentation.

Barron, D. G., S. D. Sarna*, and R. L. Middleton*. 2019. Songbirds alter their use of bird feeders in response to vocalization playback. American Ornithological Society, Anchorage, AK. Oral presentation.

Barron, D. G. 2019. Developing an avian ecology lab at an undergraduate university. Early Professionals Mini-Talk Symposium. American Ornithological Society, Anchorage, AK. Oral presentation.

Sanchez, E. E.*, J. D. Maddox, and **D. G. Barron**. 2019. De novo development and characterization of tetranucleotide microsatellite loci markers from a southeastern population of the House Finch (*Haemorrhous mexicanus*). Arkansas Academy of Science, Conway, AR. Poster Presentation.

Sarna, S.*, R. L. Middleton*, and **D. G. Barron**. 2019. Songbirds alter their use of bird feeders in response to vocalization playback. Arkansas Academy of Science, Conway, AR. Poster Presentation.

Barrett, C.* and **D. G. Barron**. 2019. Do phenotypic traits predict feeder use by wild birds? Arkansas Academy of Science, Conway, AR. Poster Presentation.

Barron, D. G., S. Collard*, and J. Barrett*. 2018. Do high bird densities near feeders attract mosquitoes? Animal Behavior Society, Milwaukee, WI. Oral presentation.

Sanchez, E.*, J. D. Maddox, and **D. G. Barron**. 2018. Developing microsatellite markers for genetic identification of songbirds. Arkansas Academy of Science, Jonesboro, AR. Poster Presentation.

Barron, D. G., A. K. Uysal, T. Shimizu, N. D. Burkett-Cadena, and L. B. Martin. 2017. Evaluating the role of host behavior in determining risk of vector-borne disease. Ecological Society of America, Portland, OR. Oral Presentation.

Collard, S. R.* and **D. G. Barron**. 2017. Evaluating the effects of bird feeders on songbird plumage coloration. Arkansas Academy of Science, Conway, AR. Poster presentation.

- *Awarded Best Undergraduate Poster, Biology, 2nd place*

Uysal, A. K., **D. G. Barron**, L. B. Martin, and T. Shimizu. 2016. Effects of early life challenges on adult life success in zebra finches. Comparative Cognition Society, Melbourne, FL. Poster presentation.

Barron, D. G., A. K. Uysal, T. Shimizu, N. D. Burkett-Cadena, and L. B. Martin. 2016. Evaluating the role of host behavior in determining risk of vector-borne disease. Arkansas Academy of Science, Fayetteville, AR. Oral presentation.

Martin, L. B., **D. G. Barron**, N. D. Burkett-Cadena, D. J. Civitello, H. J. Kilvitis, S. C. Burgan, S. S. Gervasi, A. K. Uysal, and T. Shimizu. 2016. Individual variation and covariation in vector-borne disease directed behaviors. Society for Integrative and Comparative Biology, Portland, OR. Oral presentation.

Barron, D. G., A. K. Uysal, T. Shimizu, N. D. Burkett-Cadena, and L. B. Martin. 2015. Behavioral and neurological correlates of vector avoidance strategies. Ecology and Evolution of Infectious Diseases. Athens, GA. Poster presentation.

Barron, D. G., E. J. Crespi, and H. Schwabl. 2015. Meta-analytical evaluation of the Cort-Fitness Hypothesis. Society for Integrative and Comparative Biology, West Palm Beach, FL. Oral presentation.

- *Aubrey Gorbman Award for Best Oral Presentation – Honorable Mention*

Barron, D. G., M. S. Webster, and H. Schwabl. 2014. Negligible reproductive costs favor differential allocation toward attractive males. International Society for Behavioral Ecology, New York, NY. Oral presentation.

- Barron, D. G.,** M. S. Webster, and H. Schwabl. 2013. Do androgens link morphology and behavior to produce phenotype-specific behavioral strategies? Animal Behavior Society, Boulder, CO. Oral presentation.
- Barron, D. G.,** M. S. Webster, and H. Schwabl. 2013. Body condition influences sexual signal expression independent of circulating androgens in male red-backed fairy-wrens. American Ornithologists' Union, Chicago, IL. Oral presentation.
- Barron, D. G.,** W. R. Lindsay, D. T. Baldassarre, M. S. Webster, and H. Schwabl. 2011. Early life environment influences maternally derived yolk androgens and adult reproductive phenotype in a cooperatively breeding bird. Australasian Ornithological Conference, Cairns, QLD. Oral presentation.
- *Awarded Student Spoken Presentation Award 1st Prize & Ian Rowley Memorial Award*
- Barron, D. G.,** W. R. Lindsay, D. T. Baldassarre, M. S. Webster, and H. Schwabl. 2011. Early life environment influences maternally derived yolk androgens and adult reproductive phenotype in a cooperatively breeding bird. American Ornithologists' Union, Jacksonville, FL. Oral presentation.
- Barron, D. G.,** W. R. Lindsay, M. S. Webster, and H. Schwabl. 2010. Early life conditions influence adult reproductive phenotype in a cooperatively breeding bird. 13th International Behavioral Ecology Conference, Perth, WA. Oral presentation.
- Barron, D.G.,** R. K. Bocinsky, D. Grunspan, B.A. Newbold, B. Roosien, and D. Trumbo. 2010. Tracking the memetics 'meme': towards a better understanding of the transmission and evolution of scientific concepts. NSF IGERT Project Meeting, Washington, D.C. Poster presentation.
- Barron, D. G.,** J. D. Brawn, and P. J. Weatherhead. 2009. Meta-analysis of transmitter effects on avian behavior and ecology. American Ornithologists' Union, Philadelphia, PA. Oral presentation.
- Barron, D.G.** 2009. Does military training alter the reproductive behavior of Northern Cardinals? Planet U Conference, University of Illinois, Urbana-Champaign, IL. Poster presentation.
- Barron, D.G.** 2008. Does military training alter the reproductive behavior of Northern Cardinals? American Ornithologists' Union, Portland, OR. Poster presentation.

TEACHING EXPERIENCE

Assistant/Associate Professor, Arkansas Tech University

Principles of Ecology, 2016-present	Advanced Topics in Biology, 2020
Undergraduate Research, 2016-present	Honors Thesis, 2020
Environmental Seminar, 2016-present	Introduction to Biological Science, 2015-2017
Principles of Env. Science, 2015-present	Principles of Zoology (Lab), 2015-2016
Fisheries & Wildlife Senior Seminar, 2015	

Course Developer

Costa Rica Study Abroad/Environment & Culture in Costa Rica, Arkansas Tech University, 2018
Principles of Environmental Science – Online, Arkansas Tech University, 2017

Adjunct Instructor, American Public University

Introductory Biology, 2012-2021	Ornithology, 2013-2022
General Biology I, 2018-2023	Mammalogy, 2013-2020
General Biology II, 2020-2023	Vertebrate Zoology, 2013-2019

Graduate Teaching Assistant, Washington State University

Advanced Human Physiology, 2013	Ornithology, 2012
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Guest Lecturer

Orientation to Biol. Science, 2017-2022	Natural Resources Communications, 2017-2019
Wildlife Techniques, 2017-2019	Principles of Environmental Science, 2019
Galapagos Study Abroad, 2019	Physiological Ecology, 2016
Physiological Psychology, 2014	Evolutionary Medicine, 2015

Organized and Led Student Workshops

- What to Expect as a Postdoc, University of South Florida, 2015
- Pursuing a career in biology, Washington State University, Pullman, WA, 2009
- Bird conservation and banding, The Wildlife Society, University of Illinois, Urbana-Champaign, IL, 2008

Formal Teacher Training

- Designing HyFlex Courses to Support Multimodal Learning Environments, Educause, 2021
- Study Abroad Orientation and Development Seminar, Education First (EF) College Study, 2020
- Study Abroad Faculty Leader Orientation, Arkansas Tech University, 2019
- New Faculty Academy, Arkansas Tech University, 2016-2017
- Apple iPad Course Integration Workshop, Arkansas Tech University, 2016
- eTech Certification, Arkansas Tech University, 2016
- NSF Summer Institute on Science Teaching Workshop, Louisiana State University, 2016
- iPad use in the classroom, Arkansas Tech University, 2016
- Engaging the first year student, American Public University, 2014
- Fostering teaching excellence with a Community of Inquiry Framework, American Public Univ., 2013
- Teaching excellence series, American Public University, 2013
- Problems in biological instruction, University of Washington, 2010

Academic Tutor, Office of Multicultural Affairs, Louisiana State University, Baton Rouge, LA, 2005

Experience with Blackboard, Sakai, Brightspace, ANGEL, and Catalyst online teaching software

MENTORING EXPERIENCE

Undergraduate student researchers

- 2021: Aiyana Andrew, Jesus Avila, Benjamin Bell, Elizabeth Boone, Tiffany Clem, Michael DeVito, Alex Gillies, Erin Hatcher, Alyssa Jones, Brittanie Melcher, Kassidy Newton, Sean Ottman, Ashton Rogers, James Taylor, Kayla Thompson, Rachel Wallance, Chase Wallenberger, Hallee Ward, Debbie Weibler, Adrianna Westerhold, Jordan Wilcox, Mattie Wright
- 2020: Jesus Avila, Benjamin Bell, Elizabeth Boone, Tiffany Clem, Drew Courson, Alyssa Jones, Grace McMahan, Brittanie Melcher, Matthew Nannemann, Ashton Rogers, Kayla Thompson, James Taylor, Rachel Wallance, Chase Wallenberger, Hallee Ward, Debbie Weibler, Jordon Wilcox
- 2019: Jonathan Aguirre-Lopez, Colton Barrett, Bailey Coffelt, Drew Courson, Kaitlyn DeAtley, John Gadberry, Caitlin Goldtrap, Gabriel Harris, Angela Hernandez, George Hill, Brett James, Alyssa Jones, Ashlynn Louton, Robin Middleton, Matthew Nannemann, Edgar Sanchez, Shelby Sarna, Amber Steele
- 2018: Colton Barrett, Bailey Coffelt, Stetson Collard, Kagan Davis, Austin Fowler, Garrett Lawson, Robin Middleton, Grace Rice, Edgar Sanchez, Shelby Sarna
- 2017: Colton Barrett, Justin Barrett, Stetson Collard, Caleb Cotner, Rachel Cotner, Kagan Davis, Stephanie Nefas, Edgar Sanchez
- 2016: Colton Barrett, Stetson Collard, Rachel Cotner, Cody Hardgrave, Mallory Kleck
- 2015: Floreez, Grzybowski, Krajcevskia
- 2013: Jordan Boersma, Jeannille Hiciano
- 2012: Nathan Banet, Jordan Boersma, Lindsey Nietmann, Ahvi Potticary, Kelle Urban
- 2011: Ashley Daniels, Claire Giuliano, Justin Houck, Jill Peiffer, Ahvi Potticary
- 2010: Margaret Barker, Sam Lantz, Rebekah Rylander, Philipp Schwabl
- 2008: Casey Bryan, Casey Smith
- 2007: Helen Becker

Graduate Student Researchers

- 2023: Brandon Maiersperger
- 2022: Brandon Maiersperger
- 2020: Trevor Jensen, Edward Kashon
- 2019: Trevor Jensen, Edward Kashon

2018: Edward Kashon
2015: Sarah Burgan, Leilani Kellog, Ahmet Uysal
2014: Joe Welkin
2013: Jordan Boersma

PROFESSIONAL SERVICE

Associate Editor, *Journal of the Arkansas Academy of Science*, 2016-present

Planning Committee Member, Arkansas Mosquito and Vector Control Association, 2018-2019

Avian Point Count Contractor

United States Forest Service, 2018-present

United States Army Corps of Engineers, 2013

Judge of Student Presentations

Arkansas Junior Science and Humanities Symposium, 2017-2022

Arkansas Academy of Science Conference, 2016-2022

The Wildlife Society, Arkansas Chapter Meeting, 2022

Reviewer of Student Research Grants

Animal Behavior Society, 2015-2019

Chair of Conference Sessions

American Ornithological Society Conference, 2019

Arkansas Academy of Science Conference, 2016-2022

American Ornithologist' Union Conference, 2012

Ad Hoc Reviewer (3-6 articles per year): *Animal Behaviour*, *American Journal of Physiology – Reg. Int. and Comp. Phys.*, *Birds*, *Biological Reviews*, *Emu – Austral Ornithology*, *Frontiers in Behavioral and Evolutionary Biology*, *General and Comparative Endocrinology*, *Ibis*, *Journal of the Arkansas Academy of Science*, *Journal of Experimental Biology*, *Journal of Field Ornithology*, *Journal of Forest Research*, *Journal of Ornithology*, *Journal of Wildlife Management*, *Methods in Ecology and Evolution*, *Nature Communications*, *PLoS One*, *Science*, and *Scientific Reports*, *The Condor: Ornithological Applications*

INSTITUTIONAL SERVICE

Academic Advisor

Morris K Udall Foundation Scholarship, Office of Distinguished Scholarships, 2018-present

Faculty Major Advisor, 2016-present

Bridge to Excellence Mentor, 2016-2019

Student Organization Advisor

Campus Environmental Coalition Student Organization, 2017-present

ATU Rock Climbing Club Student Organization, 2016-2019

University Committee Member

Faculty and Staff Annual Giving Ambassador, 2022

Institutional Animal Care and Use Committee (IACUC), 2021-present

Student Affairs Committee, 2021-present

Institutional Animal Care and Use Committee, 2021-present

Online Innovation Award Committee, 2021-present

Leadership Tech, 2020-present

Campus Recycling Committee (Chair), 2018-2022

Faculty Liaison Board, Center for Community Engagement and Academic Outreach, 2018-present

Faculty Salary and Benefits Committee (Chair), 2018-2021

Academic Appeals Committee, 2018-2019

Campus Compact Civic Action Planning Committee, 2017-2019

New Faculty Orientation Committee (Co-Chair), 2016-2019

Faculty Search Committees

Biology Instructor, 2022
Fisheries Biologist, 2022
Botanist, 2020
Environmental Geologist, 2020
Biology Instructor, 2017
Environmental Geologist, 2017

College and Departmental Committee Member

Biology Departmental Promotion and Tenure Committee, 2022-present
Biology Program Review Committee, 2022-present
Biology Curriculum Committee (Chair), 2020-present
Biology Assessment Committee, 2020-present
George Johnson Memorial Garden Committee, 2018-present
CNHS and Tribeta Student Award Judge, 2017-present
Tribeta Senior Award Judge, 2017-present
Sustainability Certificate Curriculum Committee, 2017
CNHS Promotion and Tenure Procedure Committee, 2017
Biology Assessment Committee, 2016-present

Master's Thesis Committees

Brandon Maiersperger, 2022-present
Trevor Jensen, 2019-2020
Edward Kashon, 2018-2020

Coordinator

Earth Day Celebration, Arkansas Tech University, 2017-2019
Principles of Environmental Science Labs, Arkansas Tech University, 2016-present
Principles of Ecology Labs, Arkansas Tech University, 2016-present
Biological Sciences Seminar Series, Arkansas Tech University, 2016-2020
Fisheries and Wildlife Graduate Reading Group, Arkansas Tech University, 2016-2017

Graduate School Service

Member, Graduate and Professional Student Association Election Committee, Washington State Univ., 2014
Senator, Graduate and Professional Student Association, Washington State University, 2013-2014
Member, Biology Community Outreach Event Committee, Washington State University, 2013-2014
Secretary, Biology Graduate Student Association, Washington State University, 2012-2013
Organizer, School of Biological Sciences Graduate Student Symposium, Washington State Univ., 2011-2014
Organizer, Graduates in Ecology and Evolutionary Biology Symposium, University of Illinois, 2008

COMMUNITY SERVICE

Organized, led, and participated in outreach programs for local children

Wildlife Biology, Sequoyah Elementary School, Russellville, AR, 2017-2018
Wildlife Biology, Dover Elementary School, Dover, AR, 2016
Owls, Dover Elementary School, Dover, AR, 2016
Local Bird Identification, Boy Scouts, Russellville, AR, 2016
Bird Banding, Russellville High School, Russellville, AR, 2015-2020
Palouse Outdoor Fun Day, WSU Biology Graduate Student Association, Moscow, ID, 2013-2014
Owl education, Champaign Parks District, Champaign, IL, 2009
Bird conservation and banding, Champaign, IL, 2008, 2009

Public School Collaboration and Outreach

Science Day Organizer, Pottsville Elementary School, 2022

Science Symposium Judge, Russellville High School, 2022
Robotics Tournament Volunteer, Russellville School District, 2020
Built Hydroponics Grow System, Russellville High School, 2020
Honors Student Project Mentor, Russellville High School, 2018
Sequoyah Elementary STEAM Committee Member, 2017-2019
Science Fair Judge, Dover Elementary School, Dover, AR, 2016

Coach, Russellville Cyclone Mountain Biking Team, National Interscholastic Cycling Association, 2021-present
Community Presentation, Palouse Audubon Society, Moscow, ID, 2014

PROFESSIONAL AFFILIATIONS

American Ornithological Society, Animal Behavior Society, Arkansas Academy of Science, The Wildlife Society