




Claire M. Curry

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Summary

I guide higher education students, faculty, and staff to enhance their research, teaching, and learning work through group and individual instruction on information literacy, data literacy, and reproducible research methods.

Education

University of Oklahoma Ph.D. in Ecology and Evolutionary Biology (Zoology) 2008-2014

Dissertation: “The evolution of reproductive isolation in a temporally complex passerine hybrid zone”

Advisor: Dr. Michael A. Patten

University of North Texas B.S. in Biology, Chemistry minor (summa cum laude) 2005-2007

Honors thesis: “Factors affecting interaction rates and space use of *Plathemis lydia* (Odonata: Libellulidae)”

Advisor: Dr. James H. Kennedy

Employment

University Libraries, University of Oklahoma (Norman, OK, USA)

Science Librarian 2018-present

Oklahoma Biological Survey, University of Oklahoma (Norman, OK, USA)

Post-doctoral Research Associate 2016-2018

Natural Resources Institute, University of Manitoba, (Winnipeg, MB, Canada)

Research Associate 2016

Post-doctoral Fellow 2014-2016

U.S. Forest Service Contractor (Decatur, TX, USA)

Contractor for Lyndon B. Johnson National Grasslands March-June 2008

Contractor for Lyndon B. Johnson National Grasslands December 2001-February 2002

Aquatic Ecology Lab, University of North Texas (Denton, TX, USA)

Undergraduate Research Assistant March-August 2007

Undergraduate Research Assistant October 2005-May 2006

Leon River Restoration Project (with Texas A&M University)

Seasonal Field Biologist May-July 2006

Texas Agricultural Experiment Station (Vernon, TX, USA)

Field Technician June-August 2005

Teaching experience

RESEARCH DATA WORKSHOPS

Teach, develop, and adapt curricula to enhance researchers' abilities to process, analyze, and visualize information.

Software/Data Carpentries Instructor Training 2019

Developed and teach curricula for multiple workshops 2018-present

Repetitive Tasks in R

- Adapted and expanded from Software Carpentry R lesson

Visualization in R Using 'ggplot2'

- Adapted and expanded from Data Carpentry R lesson and organized around our data visualizations concept workshop (next entry)

Survival Skills: Concepts of Data-Driven Visualization

Survival Skills: Using Computers for Scholarly Research

Smoother Meetings: Tips from Your Librarians

A Very Short Introduction to Geospatial R

- Adapted and shortened from Data Carpentry lessons into three 50-min lessons for cross-listed undergraduate/graduate course visits

A Very Short Introduction to R

- Adapted and shortened from Data Carpentry lesson into one 1.25 hr session
- Created modular .Rmd files to allow mix and match of lesson chunks for two different class visits (one for a cross-listed graduate/undergraduate class, and another for a senior-level undergraduate class)

Co-developed and teach curricula for multiple workshops 2018-present

Survival Skills: Managing Research Files

Citation Management with Zotero

Managing Research Projects with OSF

Survival Skills: Troubleshooting Computer Code

Maintain and update workshops in collaboration with colleagues 2018-present

Formatting Your Data for Analysis

- Adapted and shortened from Data Carpentry "tidy data" lesson

Instructing from existing curricula 2017-present

R for Scientific Programming (Software Carpentry lesson)

Data Analysis and Visualisation in R for Ecologists (Data Carpentry lesson)

- Including modifications for 1.25-2.5 hr short version for course instruction

R for Social Sciences (Data Carpentry lesson)

Introduction to R for Geospatial Data (Data Carpentry lesson)

Data Organization in Spreadsheets for Ecologists (Data Carpentry lesson)

Data Management with SQL for Ecologists (Data Carpentry lesson)

Tracking Changes with Version Control in Git/GitHub (Software Carpentry lesson)

- Including modifications for 2.5 hr two-session shorter version

Unix Shell (Bash) for Beginners (Software Carpentry lesson)

Helping from existing curricula

All lessons above

Data Cleaning with OpenRefine for Ecologists (Data Carpentry lesson)

Python (Software Carpentry lesson)

LIBRARY INSTRUCTION

Reached 4,010 learners in 220 sessions from July 2018-2024.

Information literacy for STEM courses

- Teach, develop, and scaffold information literacy skills to undergraduate and graduate STEM students
- Develop and deliver one-shot and multiple visit teaching sessions about search tools, information literacy, and library resources
- Develop new exercises and materials to teach information literacy skills in subject-specific examples in collaboration with instructors
- Using ACRL Information Literacy for STEM guidelines to frame scaffolding suggestions within STEM degrees
- Incorporating Carpentries instructor training around motivational language and cognitive load into my instructional approach

Introduction to library resources/ OU Libraries welcome presentations

- Orientations and professional development classes for graduate STEM programs
- First Year Research Experience class
- On request by course instructors

ASYNCHRONOUS INSTRUCTION

Video series for STEM remote research method options

- Created, produced, and transcribed during initial university closure during COVID pandemic in summer 2020 ([27 videos](#); [external link](#))
 - Hosted lecture on meta-analysis
 - Presented videos on data licensing, finding datasets, and literature searches

- Solicited guest appearances from campus partners like OU Writing Center, Expository Writing Program, and Center for Faculty Excellence

University of Oklahoma Libraries LibGuides

- Centralized guide to automate updating guide assets
- Updating guides to meet internal accessibility standards
- Updating subject guides for my departments
- Creating and updating topic guides
 - Data Analysis & Visualization
 - Research Survival Skills (shared, based on “Survival Skills” workshop series)
 - Citation Management with Zotero (shared)

Tutorials

- Co-created “Why Cite?” video to explain necessary parts and rationale for citations beyond avoiding plagiarism

CONSULTATIONS AS INSTRUCTION

Data, reference, and statistical consultations

- 1,842 consultations since July 2018-2024 via email (816), virtual (626), in-person (354), phone (26), and other (20).
 - 380 faculty sessions
 - 898 graduate student sessions
 - 135 post-docs/researcher sessions
 - 101 staff sessions
 - 233 undergraduate students sessions
 - 95 other and unknown sessions

INSTRUCTOR OF RECORD

Study Design and Quantitative Methods in Natural Resource Management

- Cross-listed graduate/undergraduate winter 2015, winter 2016
- Co-instructor with Dr. Nicola Koper
 - Presenting R code to implement statistical methods; lecture on multivariate statistics; and grading half of assignments

Ecological Dimensions of Natural Resource Management

- Graduate level lecture class fall 2015
- Sessional instructor: Lecture, guide discussions, grade assignments

MENTORING

University of Manitoba Students

2014-2016

- Guidance on project design, sampling, statistical analysis, and use of R and SAS for Master's (14), undergraduate (1), and Ph.D. (1) students in Dr. Nicola Koper lab
- Master's (2) and Ph.D. (1) students at the Natural Resources Institute and Biology departments.

University of Oklahoma Undergraduates

Alexandra Ainsworth

spring 2012

- Independent study (3 credit hours), PI: Dr. Michael A. Patten
- She fed captive birds, assisted with mate choice trial set-up, bird capture, DNA extraction using Qiagen DNeasy kits, PCR, and agarose gel electrophoresis.

Sarai H. Stuart

January-April 2012, January-March 2013

- Volunteer
- Recent OU graduate wanting field experience before applying to jobs and/or graduate school. She learned about mist-netting, trapping, banding, setting up mate choice trials, maintaining captive birds, DNA extraction using Qiagen DNeasy kits, PCR, and agarose gel electrophoresis. Graduated with Ph.D. from University of Illinois at Champaign-Urbana.

GRADUATE TEACHING ASSISTANTSHIPS

Intro. to Evolution, Ecology, and Diversity

Undergraduate, majors lab

spring 2012

- Professor: Dr. Phil Gibson
- Presentation of weekly lab materials, creating and grading quizzes, grading lecture exams, proctoring lecture and lab exams, and guiding students through lab experiments.

Entomology

Cross-listed undergraduate/graduate lab

2009-2012 (fall only - total four semesters)

- Professor: Dr. Ken Hobson (retired)
- Presentation of insect orders and families; creating and grading quizzes and exam; and leading students on field trips

Introductory Zoology Lab

Undergraduate, non-majors lab

fall 2008, fall 2012

- Professor: Dr. Penny Hopkins (retired)
- Lecturing on the day's lab topic, assisting students with dissections, and writing, administering, and grading quizzes

Principles of Ecology

Undergraduate, majors lab

2009 (spring & fall), 2010-2011 (fall only)

- Professor: Dr. Ken Hobson (retired)
- Discussion of concepts, guiding students through field experiments; and grading lab reports.

UNDERGRADUATE TEACHING ASSISTANTSHIP

Insect Biology Lab

Cross-listed undergraduate/graduate lab

fall 2006, fall 2007

- Professor: Dr. James Kennedy
- Volunteer
- Help students with keying insects, assist students on field trips, and proctor exams and quizzes with the graduate teaching assistants.

Training and skills

SKILLS

Learner-centered flexible pedagogy

- Classroom management and motivational pedagogy
 - Deliver materials in-person, hybrid, and virtual with emphasis on active learning guided demonstrations and accessible content
 - Teach solo; with helpers; with trainees shadowing and helping; and in collaboration (for interdisciplinary courses)
- In consultations and reference interviews, emphasis on guiding learners to gain new skills for research independence
 - Interviewing patrons about their research and career goals for tailored assistance
 - Referrals to other liaison librarians, information specialists, and campus partners as needed
 - Incorporating Carpentries instructor training around motivational language and cognitive load into my ways of interacting with patrons one-on-one as well as in the classroom

Working with People and Organizations

- Provide informational and instructional consultations to undergraduates, graduate students, post-doctoral researchers, staff, faculty, and community members
 - Collaborating with partner organizations and co-workers
 - Negotiating library instruction and workshop visits, logistics, and topics with faculty and instructors to meet information literacy standards and class needs
 - Maintaining communications with departmental representatives (faculty, staff, and students)
 - STEM Subject Liaison for School of Biological Sciences, Oklahoma Biological Station, and Department of Geography & Environmental Sustainability
 - Shared STEM liaison duties for departments of Psychology, Health & Exercise Science, and Chemistry & Biochemistry
- Maintaining good relationships for permission for field work on private (US and Canada), state (US), and federal (US) land
 - Obtaining permission for field work on private (US), state (US), and federal (US) land

- Permitting for avian research at university, state, provincial, and federal (US and Canada) levels

Statistical and Data Consulting

- Experimental design for field and lab work
- Data collection and management
- Univariate and multivariate statistical analysis
 - Choice of approaches (frequentist vs model selection)
 - Choice and guidance on specific statistical tests
 - Guidance checking discipline-specific literature for discipline-preferred approaches
 - Choice and use of statistical programming software

Collection Management

- Determining need and performing for library assessment of collection needs for new academic degrees and certificates
- Approving book purchase requests
- Analyzing usage provided by collections to determine journal subscription maintenance and cancellations
- Coordinating journal subscription requests among interested departments

SOFTWARE

Statistical Programs

- R 4.0+, as well as older versions through 3.6
- SAS 9.2+
- IBM SPSS Statistics 29+

Geographic Information Systems (GIS)

- R packages for GIS
- Quantum GIS v. 2.10+
- ESRI ArcGIS 9.2+
 - Good relationship with vendor representatives at OU
 - Assisting users with workflow migration to ArcGIS Pro from ArcMap via organizing training 2023
 - Completed course Introduction to GIS course (University of North Texas) fall 2007

Graphics and Data Visualization

- R package ggplot2 and extensions such as ggparty
- RShiny
- Inkscape 0.48+

Data management and processing

- Data wrangling
 - R packages such as `tidyverse` and `sqldf`
 - OpenRefine
 - Version control
 - Git for Windows, Linux, Mac
 - GitHub.com
 - Git Large File System for Windows
 - Databases
 - SQLite
 - DB Browser for SQLite
 - PostgreSQL database language (queries, import and export of data)
 - pgAdmin III database interface and psql command line interface for use with PostgreSQL
 - LibreOffice 3.4+ Base
 - Microsoft Access (uses jetSQL)

Citation/reference management

- Zotero 3.0.7+ bibliography software

Word Processing and Spreadsheets

- Microsoft Office 365: Word, Access, Excel, PowerPoint, OneNote
- LibreOffice 3.3.0+: Writer (Word equivalent), Impress (PowerPoint equivalent), Base (Access equivalent)

Specialized Software

- Raven Pro 1.5 sound analysis software
- Phylogenetic software (basic procedures): MRBAYES 3.1.2, RAxML, GARLI 1.0, FigTree, and MEGA 4.0

RESEARCH METHODS

Library and literature-based methods

- *Reproducible database searches*
 - Controlled vocabulary and thesaurus searches
 - Choosing and modifying keywords
 - Boolean operators and wild cards
- *Evidence synthesis*
 - Evidence Synthesis Institute August 2022 cohort
 - Using training to assist OU community members from departments of Social Work, Mathematics, Health and Exercise Science, Geography & Environmental Sustainability, Education

- Developed Evidence Synthesis LibGuide Page for initial information for community members
- Collaborating with Writing Center on a future questionnaire to guide users to specific types of synthesis
- Authored and co-authored two peer-reviewed narrative reviews

Field methods

Experimental design

- Design and conduct randomized stratified lichen surveys
- Design and conduct behavioral assays for songbirds
- Design and conduct transect and point counts for grassland and shrubland birds

Organism handling, observation, and identification

- Avian blood sampling for genetics
- Banding and color-banding small songbirds
- Nest and fledgling searching for grassland and shrubland birds
- Sorting and identification of aquatic invertebrates
- Vegetation measurements and habitat quantification
- Terrestrial insect sampling

SUPERVISORY EXPERIENCE

Ahmed Sharaf

August 2022-August 2023

- Undergraduate student web developer. Mentored in professional skills like note taking, working with consultants, writing short project updates, creating and implementing project milestones, collaborative use of GitHub. Graduated December 2023.

Henry Dang

2018

- Undergraduate student cleaning and merging multiple database versions. Mentored in R and version control from complete novice to being able to create a package to calculate triangulation points for radio-tracked telemetry data.

Field technicians (3)

summer 2015

- Trained seasonal technicians to band, color-band, and relocate birds for behavioral experiments, perform behavioral experiments, and cross-train with coordinating field teams for bird surveys.

Work Products

PEER-REVIEWED PUBLICATIONS

- Semenov, G. A., **Curry, C. M.**, Patten, M. A., Weir, J. T., & Taylor, S. A. (2023). Geographically consistent hybridization dynamics between the Black-crested and Tufted Titmouse with evidence of hybrid zone expansion. *Ornithology*, 140(3), ukado14. <https://doi.org/10.1093/ornithology/ukad014>
- Robbins, S., **Curry, C.**, Schilling, A., & Tweedy, B. N. (2022). Recruiting, Hiring, & On-Boarding Non-MLS Liaison Librarians: A Case Study. *Library Leadership & Management*, 36(1). <https://doi.org/10.5860/llm.v36i1.7490>
- Rockwood, J. V., **Curry, C. M.**, & Day, E. A. (2022). Distributed expertise, leadership structure & efficiency-viability tradeoffs in teams [Poster]. *Society for Industrial and Organizational Psychology Annual Conference*.
- Patten, M. A., Barnard, A. A., **Curry, C. M.**, Dang, H., & Loraamm, R. W. (2021). Forging a Bayesian link between habitat selection and avoidance behavior in a grassland grouse. *Scientific Reports*, 11(1), 2791. <https://doi.org/10.1038/s41598-021-82500-0>
- Gaffin, D. D., & **Curry, C. M.** (2020). Arachnid navigation – a review of classic and emerging models. *The Journal of Arachnology*, 48(1), 1. <https://doi.org/10.1636/0161-8202-48.1.1>
- Curry, C. M.**, & Patten, M. A. (2019). Complex spatiotemporal variation in processes shaping song variation. *Behaviour*, 1–26. <https://doi.org/10.1163/1568539X-00003556>
- Curry, C. M.**, Brisay, P. G. D., Rosa, P., & Koper, N. (2018). Noise source and individual physiology mediate effectiveness of bird songs adjusted to anthropogenic noise. *Scientific Reports*, 8(1), 3942. <https://doi.org/10.1038/s41598-018-22253-5>
- Warrington, M. H., **Curry, C. M.**, Antze, B., & Koper, N. (2018). Noise from four types of extractive energy infrastructure affects song features of Savannah Sparrows. *Condor*, 120(1), 1–15. <https://doi.org/10.1650/CONDOR-17-69.1>
- Curry, C. M.**, Ross, J. D., Contina, A. J., & Bridge, E. S. (2018). Varying dataset resolution alters predictive accuracy of spatially explicit ensemble models for avian species distribution. *Ecology and Evolution*, 9(10). <https://doi.org/10.1002/ece3.4725>
- Curry, C. M.**, Antze, B., Warrington, M. H., Brisay, P. D., Rosa, P., & Koper, N. (2017). Ability to alter song in two grassland songbirds exposed to simulated anthropogenic noise is not related to pre-existing variability. *Bioacoustics*.
- Pipher, E. N., **Curry, C. M.**, & Koper, N. (2016). Cattle Grazing Intensity and Duration Have Varied Effects on Songbird Nest Survival in Mixed-Grass Prairies. *Rangeland Ecology & Management*, 69(6), 437–443. <https://doi.org/10.1016/j.rama.2016.07.001>
- Curry, C. M.**, & Patten, M. A. (2016). Shadow of a doubt: Premating and postmating isolating barriers in a temporally complex songbird (Passeriformes: Paridae) hybrid zone. *Behavioral Ecology and Sociobiology*, 70(8), 1171–1186. <https://doi.org/10.1007/s00265-016-2126-y>
- Koper, N., Leston, L., Baker, T. M., **Curry, C.**, & Rosa, P. (2016). Effects of ambient noise on detectability and localization of avian songs and tones by observers in grasslands. *Ecology and Evolution*, 6(1), 245–255. <https://doi.org/10.1002/ece3.1847>
- Curry, C. M.** (2015). An Integrated Framework for Hybrid Zone Models. *Evolutionary Biology*, 42(3), 359–365. <https://doi.org/10.1007/s11692-015-9332-9>
- Curry, C. M.**, & Patten, M. A. (2014). Current and historical extent of phenotypic variation in the Tufted and Black-crested Titmouse (Paridae) hybrid zone in the southern Great Plains. *American Midland Naturalist*, 171(2), 271–300. <https://doi.org/10.1674/0003-0031-171.2.271>
- Bridge, E. S., Kelly, J. F., Bjornen, P. E., **Curry, C. M.**, Crawford, P. H. C., & Paritte, J. M. (2010). Effects of nutritional condition on spring migration: Do migrants use resource availability to keep pace with a changing world? *Journal of Experimental Biology*, 213(14), 2424–2429. <https://doi.org/10.1242/jeb.041277>

Curry, C. M., & Kennedy, J. H. (2010). Factors affecting interaction rates in *Plathemis Lydia* (Drury) (Anisoptera: Libellulidae). *Odonatologica*, 39(1), 29–38.

TECHNICAL REPORTS

Ruediger, D., Atwood, T., Bharti, N., Briones, B., Campbell, P., Carey, P., Castillo, D., Ciccone, K., Cook, C., Cooper, D., **Curry, C.**, De La Cruz, J., Dean, W., Dragowsky, E. M., Durkin, T., Epps, D., Erickson, S., Ferguson, J., Foster, E., ... Zickel, L. (2021). *Big Data Infrastructure at the Crossroads: Support Needs and Challenges for Universities*. Ithaka S+R. <https://doi.org/10.18665/sr.316121>

CONFERENCE PRESENTATIONS

Curry, C. M. (2023, July). OU Libraries' Statistics Helper Website: An Interactive and Curated Resource List [Lightning Talk]. *STEM Librarians South 2023 Collection*. <https://doi.org/10.6084/m9.figshare.23739657.v1>

Schilling, A., Laufersweiler, M., Tweedy, B., & **Curry, C. M.** (2020). Data workshops in support of researchers at the University of Oklahoma [Poster]. *OSU – Coalition for Advancing Digital Research & Education (CADRE)*.

Schilling, A., Tweedy, B., & **Curry, C. M.** (2019). An Open Access Data Workshop Curriculum for Researchers [Oral presentation (joint co-presenters)]. *STEM Librarians South*.

Curry, C. M., & Bridge, E. S. (2018). ETAG: An Animal Behavior Observatory for Radio Frequency Identification Technology [Poster]. *American Ornithology*.

Curry, C. M., & Patten, M. A. (2018). Thresholds of Avoidance Behavior in a Declining Endemic Grouse, the Lesser Prairie-Chicken [Oral presentation]. *International Ornithological Congress*.

Curry, C. M., Patten, M. A., & Weir, J. T. (2018). Spatiotemporal structuring and genomic architecture of multiple transects across an avian hybrid zone [Oral presentation]. *American Ornithology*.

Curry, C. M., Ruyle, J. E., & Bridge (presenter), E. S. (2018). ETAG: An Animal Behavior Observatory for Radio Frequency Identification Technology [Poster]. *International Ornithological Congress*.

Curry, C. M., Ross, J. D., Contina, A. J., & Bridge, E. S. (2017). Testing prediction accuracy and climate change estimation with spatially explicit models for grassland birds [Oral presentation]. *American Ornithology*.

Curry, C. M., Antze, B., Des Brisay, P., Rosa, P., & Koper, N. (2016). Behavioral responses to anthropogenic noise in two species of grassland songbirds in the Canadian mixed-grass prairie [Oral presentation]. *North American Ornithological Conference*.

Curry, C. M., Antze, B., Warrington, M., Des Brisay, P., Rosa, P., & Koper, N. (2016). Behavioural responses of two grassland songbirds to anthropogenic noise pollution [Oral presentation]. *Manitoba Chapter of The Wildlife Society Annual General Meeting*.

Curry, C. M., Patten, M. A., & Weir, J. T. (2016). Geographic and genomic clines, population structure, and range expansion in a temporally complex titmouse (Paridae) hybrid zone [Poster]. *North American Ornithological Conference*.

Koper, N., **Curry, C. M.**, Antze, B., & Warrington, M. (2016). Effects of energy infrastructure operating noise on behaviour of Savannah and Baird's sparrows [Oral presentation]. *Alberta Chapter of The Wildlife Society*.

Curry, C. M., Des Brisay, P., Antze, B., Nenninger, H. R., Warrington, M., & Koper, N. (2015). Behavioural response of two grassland songbirds to noise pollution from energy development in the Canadian prairie [Five minute speed talk]. *International Congress for Conservation Biology*.

Curry, C. M., Des Brisay, P., Antze, B., Nenninger, H. R., Warrington, M., & Koper, N. (2015). Behavioural response of two grassland songbirds to noise pollution from energy development in the Canadian prairie [Oral presentation]. *The Wildlife Society Annual Meeting*.

Koper, N., Bernath-Plaisted, J., **Curry, C. M.**, Antze, B., Warrington, M., Nenninger, H. R., & Rosa, P. (2015). Effects of oil and gas infrastructure and operating noise on grassland songbirds in Canada [Oral presentation]. *International Congress for Conservation Biology*.

- Koper, N., Bernath-Plaisted, J., **Curry, C. M.**, Antze, B., Warrington, M., Nenninger, H. R., Swider, C. R., & Rosa, P. (2015). Effects of oil and gas infrastructure and operating noise on grassland songbirds in Alberta [Oral presentation]. *The Wildlife Society Annual Meeting*.
- Koper, N., Bernath-Plaisted, J., **Curry, C. M.**, Nenninger, H. R., Rosa, P., & Swider, C. R. (2015). Effects of energy infrastructure and operating noise on grassland songbirds [Oral presentation]. *Alberta Chapter of the Wildlife Society*.
- Curry, C. M.**, Des Brisay, P., Antze, B., Nenninger, H. R., & Koper, N. (2014). Effects of oil and gas infrastructure noise on Baird's Sparrow songs. *Parks and Protected Areas Research Forum of Manitoba*.
- Curry, C. M.**, & Patten, M. A. (2014). Evolution of reproductive isolation in a temporally complex hybrid zone between Tufted and Black-crested Titmice (Paridae) [Oral presentation]. *American Ornithologists' Union/Cooper Ornithological Society/Society of Canadian Ornithologists Joint Meeting*.
- Curry, C. M.**, & Patten, M. A. (2013). Sexual and natural selection on song across a temporally complex passerine hybrid zone [Poster]. *Evolution 2013*.
- Curry, C. M.**, & Patten, M. A. (2013). Sexual and natural selection on song across the temporally complex hybrid zone of Tufted and Black-crested Titmice (Paridae) [Oral presentation]. *American Ornithologists' Union/Cooper Ornithological Society Joint Meeting*.
- Curry, C. M.**, & Patten, M. A. (2012). Causes and consequences of song variation across a temporally complex passerine hybrid zone [Oral presentation]. *First Joint Congress on Evolutionary Biology*.
- Curry, C. M.**, & Patten, M. A. (2012). Evolution of song variation across a complex hybrid zone in Tufted and Black-crested titmice [Oral presentation]. *Oklahoma Ornithological Society*.
Won "Best Oral Presentation by a Graduate Student"
- Curry, C. M.**, & Patten, M. A. (2012). Evolution of song variation across a complex hybrid zone in Tufted and Black-crested titmice [Poster]. *North American Ornithological Conference*.
- Curry, C. M.**, & Patten, M. A. (2011). Causes of song variation across the titmouse hybrid zones in Oklahoma and Texas [Oral presentation]. *Oklahoma Ornithological Society*.
- Curry, C. M.**, & Patten, M. A. (2011). Song varies across younger and older hybrid zones in Black-crested (*Baeolophus atricristatus*) and Tufted (*B. bicolor*) titmice [Oral presentation]. *Association of Field Ornithologists/Cooper Ornithological Society/Wilson Ornithological Society Joint Meeting*.
- Curry, C. M.**, & Patten, M. A. (2011). Song varies across younger and older hybrid zones in Black-crested (*Baeolophus atricristatus*) and Tufted (*B. bicolor*) titmice [Oral presentation]. *Evolution 2011*.
- Curry, C. M.**, & Patten, M. A. (2010). Vocal dynamics of a complex avian hybrid zone [Oral presentation]. *Oklahoma Ornithological Society*.
- Curry, C. M.**, & Patten, M. A. (2010). Vocal dynamics of a complex avian hybrid zone [Poster]. *Association of Field Ornithologists' Annual Meeting*.
- Curry, C. M.**, & Patten, M. A. (2010). Vocal dynamics of a complex avian hybrid zone [Poster]. *Southwestern Association of Naturalists Annual Meeting*.
- Curry, C. M.**, & Kennedy, J. H. (2008). Factors affecting interaction rates and space use of *Plathemis Lydia* (Drury 1773) (Odonata: Libellulidae) [Oral presentation]. *Southwestern Association of Naturalists Annual Meeting*.
- Curry, C. M.**, & Kennedy, J. H. (2008). Factors affecting interaction rates and space use of *Plathemis Lydia* (Drury 1773) (Odonata: Libellulidae) [Poster]. *Southwestern Branch of the Entomological Society of America/Society of Southwestern Entomologists Joint Meeting*.

SEMINARS AND INVITED LECTURES

- Curry, C. M.** (2020). Zero to online in 60 seconds: Moving Undergraduate Research Day to Open Science Framework [Lightning talk]. *University Library Day*.
- Curry, C. M.**, Des Brisay, P., Rosa, P., & Koper, N. (2017). Efficacy of adjusted songs for communication in noise

- varies with infrastructure type and hormone levels (Invited oral presentation). In: Mechanisms underlying avian response to energy development (Symposium). *American Ornithology*.
- Koper, N., Rosa, P., **Curry, C. M.**, Bernath-Plaisted, J., Nenninger, H. R., & Daniel, J. (2017). Effects of noisy petroleum infrastructure on grassland songbirds in Alberta, Canada. *Entomology Department Seminar Series, University of Manitoba*.
- Koper, N., Rosa, P., **Curry, C. M.**, Bernath-Plaisted, J., Nenninger, H. R., & Daniel, J. (2017). Effects of noisy petroleum infrastructure on grassland songbirds in Alberta, Canada [Invited seminar]. *St. George's University, Grenada*.
- Koper, N., Rosa, P., **Curry, C. M.**, Bernath-Plaisted, J., Nenninger, H. R., & Daniel, J. (2017). Industrial noise and oil wells: Effects on birds [Invited seminar]. *University of Winnipeg Seminar Series*.
- Koper, N., Rosa, P., **Curry, C. M.**, Bernath-Plaisted, J., Nenninger, H. R., Warrington, M., & Daniel, J. (2017). Effects of oil and gas infrastructure and anthropogenic noise on grassland songbirds. *National Wildlife Research Centre Seminar Series, Carleton University*.
- Koper, N., Rosa, P., **Curry, C. M.**, Bernath-Plaisted, J., Warrington, M., & Nenninger, H. R. (2017). Effects of noisy oil and gas infrastructure and anthropogenic noise on abundance, productivity, and behaviour of grassland songbirds [Invited seminar]. *Université Du Québec à Trois-Rivières Seminar Series*.
- Koper, N., **Curry, C. M.**, Antze, B., Daniel, J., Nenninger, H. R., Bernath-Plaisted, J., Rosa, P., & Warrington, M. (2016). Effects of energy infrastructure on grassland songbirds. *Cenovus Lunch and Learn Seminar Series (Invited), Cenovus Energy*.
- Curry, C. M.** (2015). Management and analysis of quantitative data [Guest lecture]. *Master's Thesis Research Seminar (NRI 7262), Natural Resources Institute, University of Manitoba*.
Invited by the instructor, Dr. John Sinclair
- Koper, N., Bernath-Plaisted, J., **Curry, C. M.**, Antze, B., Warrington, M., Nenninger, H. R., Swider, C. R., & Rosa, P. (2015). Effects of energy infrastructure and operating noise on grassland songbirds in Alberta. *National Wildlife Research Centre Seminar Series, National Wildlife Research Centre, Carleton University*.
- Koper, N., Rodgers, J., Yoo, J., Molloy, K., Bernath-Plaisted, J., **Curry, C. M.**, Antze, B., Warrington, M., Nenninger, H. R., Swider, C. R., & Rosa, P. (2015). Effects of shallow gas and oil infrastructure and operating noise on grassland songbirds. *Canadian Wildlife Service*.
- Koper, N., Rosa, P., Lockhart, J., Lwiwski, T. C., Rodgers, J., Molloy, K., **Curry, C. M.**, Fischer, S., Swider, C. R., & Yoo, J. (2015). From mensurative to manipulative: Diverse study designs to understand effects of anthropogenic disturbance and habitat fragmentation on grassland birds. *Ontario Grassland Guild*.
- Curry, C. M.** (2014). Adaptation and evolution: The role of evolution in conservation and management [Guest lecture]. *Ecological Dimensions of Resource and Environmental Management (NRI7232), Natural Resources Institute, University of Manitoba*.
Invited by the instructor, Dr. Nicola Koper
- Curry, C. M.** (2014). Evolution of reproductive isolation in a temporally complex songbird hybrid zone [Oral presentation]. *Natural Resources Institute Seminar Series, University of Manitoba*.
Invited seminar, host Dr. Brett Sandercock
- Curry, C. M.** (2013). The evolution of reproductive isolation in a temporally complex passerine hybrid zone [Oral presentation]. *Biology Department Seminar, University of Oklahoma*.
- Curry, C. M.** (2013). The evolution of reproductive isolation in a temporally complex passerine hybrid zone [Oral presentation]. *Ecology and Evolutionary Biology Seminar at Kansas State University*.
Invited seminar, host Dr. Brett Sandercock
- Curry, C. M.**, & Patten, M. A. (2011). Song varies across younger and older hybrid zones in Black-crested (*Baeolophus*

Atricristatus) and Tufted (*B. Bicolor*) titmice [Oral presentation]. *Ecology and Evolutionary Biology Seminar ("Ecomunch") at University of Oklahoma.*

Curry, C. M., & Patten, M. A. (2011). Song varies across younger and older hybrid zones in Black-crested (*Baeolophus atricristatus*) and Tufted (*B. Bicolor*) titmice [Poster]. *Graduate College Student Research and Performance Day, University of Oklahoma.*

Curry, C. M., & Patten, M. A. (2010). Song differences between Tufted and Black-crested Titmouse [Poster]. *Graduate College Student Research and Performance Day, University of Oklahoma.*

Curry, C. M. (2009). Genetic and behavioral dynamics in a complex avian hybrid zone [Oral presentation]. *Ecology and Evolutionary Biology Seminar ("Ecomunch") at University of Oklahoma.*

POPULAR ARTICLES

Monthly "Birds and Beyond" column for a small Texas newspaper, the Wise County Messenger 2002-2013

- September 2002-September 2007, volunteer columnist
- November 2007-October 2013, paid columnist
- Articles generally focused on natural history and identification of north-central Texas birds, butterflies, plants, and other organisms and descriptions of trips in other areas of Texas and Oklahoma.

Curry, C. M. (2004). Flight path: Young birder of the year contest. A birding essay: Stubs. *Birding*, 36(4), 354-356.

Observations on a female *Archilochus* sp. hummingbird with a broken beak.

Curry, C. M. (2004). Killer meadowlarks. *Texas Birds*, 5(1), 29-30.

Observations on an Eastern Meadowlark killing American Goldfinches during a winter storm.

Curry, C. M. (2004). Real birders drool. IN Dimensions: Three flights of fancy. *Birding*, 36(3), 288-289.

Humorous essay on the canine birding experience.

Curry, C. M. (2004). West Nile virus: Birds, people, and Texas. *Texas Birds*, 5(1), 14-16.

A short overview of West Nile Virus after its initial outbreak.

Curry, C. M. (2002). The tail of an unfortunate chickadee. *Winging It*, 14(2), 4.

Description of a Carolina Chickadee trapped in an *Argiope* sp. spider web.

Awards, Honors, and Fellowships

Thomas & Catherine Luccock Library Award of Excellence

May 2022

University of Oklahoma Libraries "The Thomas & Catherine Luccock Library Award of Excellence is the highest honor awarded by the University of Oklahoma Libraries. This prestigious award will be presented annually to recognize and commend an individual for superior performance and contributions to the University of Oklahoma Libraries."

Hidden Hero Award University of Oklahoma Libraries

September 2021

"Going above and beyond in the performance of your job duties."

Collaborative Spirit Award (for STEM Services team) University of Oklahoma Libraries

April 2020

“Recognizes a work team or volunteer group that successfully works together to create a product or result that was strengthened by the effort of the team.”

Elective Member American Ornithology Society

August 2017

Elected to honorary membership category recognizing contributions to ornithology.

GAANN (Graduate Assistance in Areas of National Need) Fellow Department of Education August 2012-March 2014

Nominated by department; covers stipend, tuition, fees

Alumni Fellow University of Oklahoma Graduate College

2008-2014

“emphasizes the recruitment and retention of outstanding graduate students”.

Biology Department Award for Excellence in Graduate Student Teaching

May 2013

University of Oklahoma Department of Biology Nominated for teaching Ecology and Entomology Labs.

Best oral presentation by a graduate student

October 2012

Oklahoma Ornithological Society Fall 2012 technical meeting

President's List University of North Texas

spring 2005-fall 2007

For 4.00 GPA while completing at least 12 credit hours in a semester

National Grasslands Prairie Partner Award

2003

National Grasslands Council For volunteer work at the Lyndon B. Johnson National Grasslands (shared with Mary Curry).

Service

PEER REVIEW

[Publons profile \(external link\)](#)

Auk: Ornithological Advances

Avian Conservation and Ecology

Condor (now Ornithological Applications)

Member of the Cooper Ornithological Society's Early Career Editorial Board for Condor (2011-2012; graduated from the board at the end of that period).

Diversity and Distributions

Ecology and Evolution

Environmental Pollution

Evidence-based Toxicology

Ibis

Journal of Applied Ecology

Northeastern Naturalist

Rangeland Ecology and Management

Wilson Journal of Ornithology

DEPARTMENTAL

• Research Workshops Committee (chair) for University Libraries

2021-present

- Documentation of procedures for committee, workshop organization, and scheduling in coordination with University Libraries Marketing and Communication and later OU Marketing and Communication to ensure timely and consistent outreach
- Standardization of accessibility notices to include default captioning, modality, and logistics
- Responsible for reminding instructors of scheduling
- Automated reminder and registration emails via Zapier and Trello
- Created cross-training document to find substitute instructors, helpers, and understand organizational needs for software instructors
- Created RACI chart for team to understand who to contact during cancellations or rescheduling
- Hiring committee (chair) for University Libraries STEM Instruction Librarian – 2024 (in progress)
- Hiring committee for University Libraries National Weather Center Branch Library Manager – 2023 (successful search)
- UL Awards committee (2023) Hiring committee for University Libraries Liaison Coordinator – 2022-2023 (unsuccessful searches)
- Hiring committee for University Libraries Marketing & Communication Search – 2021 (successful search)
- Successful proposal (with assistance from LGBTQIA+ colleagues) to add option for pronouns to official University Libraries name badges for faculty/staff - 2021
- Department of Biology Graduate Selections Committee graduate student representative (2010-2013 academic years); provide comments on new graduate student applications to the department.
- Founded and organize Ecology Journal Club at OU with weekly discussions by students and faculty of published papers (fall 2011-fall 2013; responsibilities passed to a new student during my last semester of spring 2014 and meetings continued through 2018).

UNIVERSITY

- Institutional Animal Care and Use Committee Scientist Member, February 2021-present
- OU Coding Outreach for Data Education (CODE) Workshop helper for R and Python: fall 2020, fall 2021, fall 2022.
- Judge for OU Honors College Undergraduate Research Day, April 2020.
- Judge for OU Honors College Undergraduate Research Day, April 2019.
- Reviewer for OU School of Architecture Program for Research Enhancement to provide layperson's feedback: fall 2018, spring 2019, fall 2019.
- Software and Data Carpentry helper and instructor: 2017-present.
- Guest panelist in Earth Observation Science for Society and Sustainability (EOS 3) interdisciplinary certificate program class on "Building a better Ph.D. or M.S." August 28, 2017. Class taught by Drs. Jeff Kelly, Andrea Contina, and Sara Mata, University of Oklahoma, Norman, OK, USA.
- Nominated to serve as a OU Graduate College Academic Appeals and Misconduct student panelist (2011-2012 academic year); nominated by the OU Department of Zoology's Graduate Liaison for being "an experienced

Graduate Student and hav[ing] demonstrated the qualities necessary to serve as an Appeals or Misconduct panelist such as judgment, discretion and commitment.”

EXTERNAL

- Instructor on TAGS (Geolocator Data Cleaning website) at Geolocation Workshop August 18-19, 2018. Preceding International Ornithological Congress: Vancouver, BC, Canada.
- Session Chair (“Evolution”), 2018 American Ornithology Conference: Tuscon, AZ, USA.
- Judged student presentations (oral presentations and posters) at 2018 American Ornithology Conference: Tuscon, AZ, USA.
- Session Chair (“Landscape ecology”), 2017 American Ornithology Conference: East Lansing, MI, USA.
- Judged student presentations (oral presentations and posters) at 2017 American Ornithology Conference: East Lansing, MI, USA.
- Judged undergraduate presentations (oral presentations and posters) at North American Ornithological Conference 2016: Washington, DC., USA.
- Presented and led discussion on project and risk management during Critical Skills for the Early Career Professional workshop at 2015 The Wildlife Society Meeting, Winnipeg, MB, October 2015.
- Panelist on careers in biology at Prairie University Biology Symposium, Winnipeg, MB, February 2015; one of three early career biologists answering questions from graduate students.
- Undergraduate Diversity Mentor for two undergraduates attending the Evolution 2013 meeting in Snowbird, UT.
- Session Chair (“Diseases/parasites”), NAOC-V meeting, 14-18 August 2012, Vancouver BC.
- Volunteer, Evolution 2011 meeting, 17-21 July, Norman OK; driving van.
- Session Chair (“Diversification- Birds”), Evolution 2011 meeting, 17-21 July 2011, Norman OK.

COMMUNITY

Presentations ENTERING INTO ZOTERO

Have co-presented talks about birds and ecology

2001-2007

- Denton County Master Gardeners (TX)
- Elm Fork Chapter of Texas Master Naturalists
- Decatur Lions’ Club
- Tallgrass Prairie Audubon Society
- Girl Scouts
- Boy Scouts
- elementary school students in Decatur, TX
- 2001, 2006, and 2007 JAKES (Juniors Acquiring Knowledge, Ethics, and Sportsmanship) events (U.S. Forest Service; Texas Parks and Wildlife) at the Lyndon B. Johnson National Grasslands.

Additional STEM outreach

- Co-led nature walk for National Trails Day at Fort Richardson State Park, TX, with park manager in June 2012.
- Expert biologist at 2011 BioBlitz Oklahoma at Chickasaw National Recreation Area, Murray County, OK
Guided bird walk for Fort Griffin State Historic Site, TX, June 2011.
- Co-led monthly field trips to the Lyndon B. Johnson National Grasslands from February 2004 to January 2005.
- Compiled checklists of Wise County birds and butterflies for distribution at the U.S. Forest Service office in Decatur, TX.
- Participated in Wise County Christmas Bird Count circle from 2000-2007.
- Participated in Project Prairie Birds in winters of 2002-2006 on the Lyndon B. Johnson National Grasslands.
- Co-editor of Tall Grass Tales, newsletter of Tallgrass Prairie Audubon Society, from December 2001 to October 2004.
- Assisted in preparing bird specimens and mounts for display at the U.S. Forest Service office in Decatur, TX.
- Completed volunteer hours and advanced training hours for Elm Fork chapter of Texas Master Naturalist program, Class of 2000. Certified from 2000 to 2006; ended service to focus on undergraduate degree.

Funding

EXTRAMURAL

Research

Prairie Biotic Research, Inc. small grants program

\$1500 March 2018

Proposal title, "An Illustrated Checklist of the Lichens of Wise County, Texas, and Surrounding Areas"

Co-PI Mary Curry

Amazon Web Services (AWS) Cloud Credits for Research program

\$6500 in computing credits on AWS 2017

Proposal title "Predictive accuracy and efficiency of spatially explicit species distribution models"

Sigma Xi Grant-in-Aid of Research

\$500 spring 2012

Proposal title "Evolution of reproductive isolation in a spatially and temporally complex songbird hybrid zone", travel mileage to field sites

American Museum of Natural History Frank M. Chapman Memorial Fund Grant

\$2000 2012-2013

Proposal title "Shadow of a doubt: species recognition in a complex avian hybrid zone", research expenses and genetic analysis costs

American Museum of Natural History Frank M. Chapman Memorial Fund Grant

\$2000 2011-2013

Proposal title "Why songs change over space and time in a complex avian hybrid zone", research expenses and genetic analysis costs

Oklahoma Ornithological Society

\$500 2012

Proposal title “Shadow of a doubt: species recognition and fitness in a complex avian hybrid zone”, research expenses

Oklahoma Ornithological Society

\$400

2010

Proposal title “Genetic and vocal dynamics of a complex avian hybrid zone”, research expenses

Travel Awards

American Ornithological Society Post-Doctoral Travel Award

\$290

August 2017

To attend 2017 American Ornithology Conference in East Lansing, MI

Association of Field Ornithologists’ Post-Doctoral Travel Award

\$260

August 2016

To attend NAOC2016 meeting in Washington, DC

American Ornithologists Union/Cooper Ornithological Society/Society of Canadian Ornithologists Joint Student Travel Award

\$370

September 2014

To attend AOU/COS/SCO joint meeting in Estes Park, CO

American Ornithologists Union/Cooper Ornithological Society Student Travel Award

\$333

August 2013

To attend AOU/COS joint meeting in Chicago, IL

American Society of Naturalists Student Travel Award

\$500

June 2013

To attend Evolution 2013 meeting in Snowbird, UT

Student Travel Award from 2012 North American Ornithological Conference

\$300

2012

To attend 2012 North American Ornithological Conference in Vancouver, BC

INTRAMURAL

Research and Projects

OU Data Institute for Societal Challenges Seed Funding

\$10,000

June 2022-August 2023

Seed funding to develop Statistics Helper educational website prototype

M. Blanche Adams and M. Frances Adams Memorial Scholarships in Zoology: Summer Research Scholarship

\$2500

summer 2012

Proposal title “Evolution of reproductive isolation in a spatially and temporally complex songbird hybrid zone”; summer research assistantship in department

George Miksch Sutton Scholarship in Ornithology

\$3500

2012

Proposal title “Testing hybrid zone models using the Tufted (*Baeolophus bicolor*) and Black-crested (*B. atricristatus*) Titmouse hybrid zone”, research equipment, travel, and lab expenses

M. Blanche Adams and M. Frances Adams Memorial Scholarships in Zoology: Academic Year Scholarship

\$1000

2011-2012

Proposal title “Behavioral and genetic dynamics of a complex avian hybrid zone”; for professional travel and research expenses

M. Blanche Adams and M. Frances Adams Memorial Scholarships in Zoology: Summer Research Scholarship

\$2500

summer 2011

Proposal title “Behavioral and genetic dynamics of a complex avian hybrid zone”; summer research assistantship in department
George Miksch Sutton Scholarship in Ornithology
\$6700 2011
Proposal title “Testing hybrid zone models using the Tufted (*Baeolophus bicolor*) and Black-crested (*B. atricristatus*) Titmouse hybrid zone”, research equipment, travel, and lab expenses
M. Blanche Adams and M. Frances Adams Memorial Scholarships in Zoology: Academic Year Scholarship
\$1000 2010-2011
Proposal title “Behavioral and genetic dynamics of a complex avian hybrid zone”; for professional travel and research expenses
M. Blanche Adams and M. Frances Adams Memorial Scholarships in Zoology: Summer Research Scholarship
\$756 summer 2010
Proposal title “Behavioral and genetic dynamics of a complex avian hybrid zone”; partial summer research assistantship in department (complements 2010 Sutton Scholarship stipend, below)
George Miksch Sutton Scholarship in Ornithology
\$4800 2010
Proposal title “Dynamics of a complex avian hybrid zone”, research equipment, travel, lab expenses, and partial summer stipend
OU Graduate Student Senate Research and Creative Endeavors Grant
\$224.82 spring 2010
Research equipment and travel to north-central Texas to examine field sites
OU Robberson Research Grant
\$1000 (granted once per degree) February 2010
Research travel and genetic analysis costs
OU Graduate Student Senate Research and Creative Endeavors Grant
\$315.62 fall 2009
Travel expenses to southwestern Oklahoma to examine field sites
M. Blanche Adams and M. Frances Adams Memorial Scholarships in Zoology: Summer Research Scholarship
\$2500 summer 2009
Proposal title “Behavioral and genetic dynamics of a complex avian hybrid zone”; summer research assistantship in department
George Miksch Sutton Scholarship in Ornithology
\$5000 2009
Proposal title “Dynamics of a complex avian hybrid zone”; research equipment and travel expenses

Travel Awards

OU College of Arts and Sciences Student Travel Fund
\$750 August 2013
Travel to joint meeting in Chicago, IL, Utah in August 2013, \$750.
OU Department of Biology Travel Funding
\$250 May 2013
To attend Evolution 2013 meeting in Snowbird, UT in June 2013
OU College of Arts and Sciences Student Travel Fund
\$750 August 2012
Travel to North American Ornithological Conference in Vancouver BC in August 2012
OU Department of Zoology travel funding
\$250 February 2011
Travel to Association of Field Ornithologists/Cooper Ornithological Society/Wilson Ornithological Society

joint meeting in Kearney, Nebraska in March 2011
OU College of Arts and Sciences Student Travel Fund
 \$750 October 2010
 Travel to Association of Field Ornithologists' conference in Ogden, Utah in August 2010
OU Robberson Travel Grant
 \$500 (granted once per degree) October 2010
 Travel to Association of Field Ornithologists' conference in Ogden, Utah in August 2010
OU Graduate Student Senate Conference and Creative Exhibition Grant
 \$79.86 spring 2010
 Lodging and daily expenses at Southwestern Association of Naturalists' meeting in Junction, TX
Carl and Pat Bynum Riggs Scholarship
 \$500 summer 2009
 To defray expenses of course tuition and fees for O.U. Biological Station summer session; Molecular Techniques for Field Biology class

Memberships

American Statistical Association

Education Section and Oklahoma Chapter	2022-present
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American Ornithological Society

Elective Member	2017-present
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Member	2010-2016
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Association of Field Ornithologists

Member	2012-2022
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Research Data Preservation Association

Member	2018-2019
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References

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