# Curriculum vitae: Claire M. Curry

Updated 01 November 2016

|  |  |
| --- | --- |
| Oklahoma Biological Survey  University of Oklahoma  111 Chesapeake St  Norman, OK, USA 73019 | Email: [cmcurry@ou.edu](mailto:cmcurry@ou.edu),  [curryclairem@gmail.com](mailto:curryclairem@gmail.com)  Websites: <http://cmcurry.com>,  https://github.com/baeolophus |
|  | |

## Education

|  |  |  |
| --- | --- | --- |
| 2008-2014 | Ph.D. in Ecology and Evolutionary Biology (Zoology).  Advisor: Dr. Michael Patten. | University of Oklahoma  (Norman, OK, USA) |
| 2005-2007 | B.S. in Biology, chemistry minor (*summa cum laude*)  Honors thesis advisor: Dr. James H. Kennedy. | University of North Texas  (Denton, TX, USA) |

## Work positions and experience

|  |  |  |
| --- | --- | --- |
| 2016-present | Post-doctoral research associate  PI: Dr. Eli S. Bridge | University of Oklahoma,  Oklahoma Biological Survey (Norman, OK, USA) |
| 2016 | Research associate  PI: Dr. Nicola Koper | University of Manitoba, Natural Resources Institute  (Winnipeg, MB, Canada) |
| 2014-2016 | Post-doctoral fellow  PI: Dr. Nicola Koper | University of Manitoba, Natural Resources Institute  (Winnipeg, MB, Canada) |
| March-June 2008 | Contracted by the U.S. Forest Service | Conducted a Black-capped Vireo survey and designed a Loggerhead Shrike survey on the Lyndon B. Johnson National Grasslands. |
| March-August 2007 (part time) | Undergraduate research assistant in Dr. James Kennedy’s Aquatic Ecology Lab at UNT | Sorted aquatic invertebrates in sediment samples, identified Chironomidae subfamilies, and formatted data. |
| May-July 2006 | Seasonal field biologist for Leon River Restoration Project (with Texas A&M University) in Gatesville, TX | Point counts of birds, nest searching, fledgling searching, and entering data. |
| October 2005-May 2006 (part-time) | Undergraduate research assistant in Dr. James Kennedy’s Aquatic Ecology Lab at UNT | Sorting aquatic invertebrates in sediment samples. |
| June-August 2005 | Field technician at Texas Agricultural Experiment Station in Vernon, TX | Counting birds, nest searching, measuring vegetation, and sampling insects. |
| December 2001-February 2002 | Contracted by U.S. Forest Service | Counting grassland bird species along designated transects on the Lyndon B. Johnson National Grasslands. |

## Research

Post-doctoral research at University of Oklahoma: effects of habitat and climate change on distribution of grassland songbirds

Post-doctoral research at University of Manitoba: The effects of oil infrastructure noise on prairie songbird behavior. Experiments on effects of noise on Baird’s Sparrow (a species of Special Concern in Canada) and Savannah Sparrow and how signaling variability affects their ability to alter songs, and whether Savannah Sparrows’ altered songs are effective in noisy and quiet environments.

Mentoring 19 graduate and undergraduate students for related projects on experimental design; R, SAS, and SPSS coding; and statistical advice

Creation of training documents and permit instructions for future students and project managers in the lab to ease transition between field seasons

Working near oil and gas leases (requiring H2S safety training and industry WHMIS training) on private land

Supervising graduate students and field technicians in the field in Alberta.

Coordinating housing rental

Interviewing and hiring technicians

Coordinating training for technicians (H2S Alive, WHMIS, Transportation of Dangerous Goods, Power Line Awareness, and University of Manitoba Animal Care)

Meeting with lead technicians to assess progress

Permits for banding (federal, provincial)

Coordinating University of Manitoba animal care permits and amendments for whole project (mine and two graduate students in 2015 and coordinating for graduate students in 2016)

Field techniques include mist-netting, color banding, song playback, and song recording.

Ph.D. research: genetic and behavioral dynamics of an avian hybrid zone, using the Tufted and Black-crested Titmouse species complex of Oklahoma and Texas as a model system. Hybrid zones such as this one, where two closely related species’ ranges overlap, provide insight into gene flow and speciation.

Field techniques include mist-netting and banding (requiring state and federal permits), blood sampling, re-sighting banded birds with binoculars, sound recording, nest box monitoring, and vegetation measurement.

Study sites are on state, federal, and private lands, giving me experience in working with site managers and landowners.

A total of 17 volunteers have monitored nest boxes and additional volunteers provided behavioral observations for me, providing experience in organizing volunteers across two states.

Spring 2009: observed color-banded Dark-eyed Juncos (*Junco hyemalis*) using spotting scope for migration study (see Bridge et al. 2010 in Publications).

Undergraduate biology honors thesis under Dr. James Kennedy’s direction, titled “Factors affecting interaction rates and space use of *Plathemis lydia* (Odonata: Libellulidae)”.

Intraspecific and interspecific interaction rates, space use, and area used were observed for *P. lydia* at three ponds in north-central Texas.

Interaction rates were found to be different depending on the space use category of interacting odonates (perching or flying), supporting the hypothesis that the thermoregulatory categories of perching and flying aid in partitioning the environment among species.

Field techniques included capture with an aerial net and marking of odonates with acrylic paint, re-sighting with binoculars, and vegetation measurements around ponds.

## Publications

7. Pipher, E., **C.M. Curry**, and N. Koper. Submission October 2015, revision submitted April 2016. Cattle grazing intensity and duration have varied effects on songbird nest survival in mixed-grass prairies. *Rangeland Ecology and Management* DOI:10.1016/j.rama.2016.07.001.

6. **Curry, C.M.**, and M.A. Patten. 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.

5. Koper, N., L. Leston, T.M. Baker, **C.M. Curry**, and P. Rosa. 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.

4. **Curry, C.M.** 2015. An integrated framework for hybrid zone models. *Evolutionary Biology* 42(3):359-365.

3. **Curry, C.M.** and M.A. Patten. 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* 171:271-300.

2. **Curry, C.M.** and J.H. Kennedy. 2010. Factors affecting interaction rates in *Plathemis lydia* (Drury) (Anisoptera: Libellulidae). *Odonatologica* 39(1):27-39.

1. Bridge, E. S., J. F. Kelly, P. E. Bjornen, **C. M. Curry**, P. M. Crawford, and J. M. Parritte. 2010. Effects of nutritional condition on spring migration: do migrants use resource availability to keep pace with a changing world? *Journal of Experimental Biology* 213:2424-2429.

Submitted manuscripts

**Curry, C.M.**, B. Antze, M.H. Warrington, P. Des Brisay, P. Rosa, and N. Koper. In revision October 2016. Ability to alter song in two grassland songbirds exposed to simulated anthropogenic noise is not related to pre-existing variability. *Bioacoustics*.

Warrington, M.H., **C.M. Curry**, B. Antze, and N. Koper. Submission October 2016. Diverse types of energy infrastructure affect song features differently in a grassland bird. *Ecological Applications*.

## Presentations and Posters (\*indicates presenter)

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

**Curry, C.M.\*,** M.A. Patten, and J. Weir. 2016. Geographic and genomic clines, population structure, and range expansion in a temporally complex titmouse (Paridae) hybrid zone. North American Ornithological Conference 2016: Washington, DC., USA. (Poster presentation.)

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

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

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

Koper, N.\*, J. Bernath-Plaisted, **C.M. Curry**, B. Antze, M. Warrington, H. Nenninger, C. Swider, and P. Rosa. 2015. Effects of oil and gas infrastructure and operating noise on grassland songbirds in Alberta. The Wildlife Society Annual Meeting: Winnipeg, MB. (Oral presentation.)

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

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

Koper, N.\*, J. Bernath-Plaisted, **C.M. Curry,** H. Nenninger, P. Rosa, and C. Swider. 2015. Effects of energy infrastructure and operating noise on grassland songbirds. Alberta Chapter of the Wildlife Society: Edmonton, AB. (Oral presentation).

**Curry, C.M.\***, P. Des Brisay, B. Antze, H. Nenninger, and N. Koper. 2014. Effects of oil and gas infrastructure noise on Baird's Sparrow songs. Parks and Protected Areas Research Forum of Manitoba: Winnipeg, MB. (Oral presentation).

**Curry, C.M.\*** and M.A. Patten. 2014. Evolution of reproductive isolation in a temporally complex hybrid zone between Tufted and Black-crested Titmice (Paridae). American Ornithologists' Union/Cooper Ornithological Society/Society of Canadian Ornithologists joint meeting: Estes Park, CO. (Oral presentation).

**Curry, C.M.\*** and M.A. Patten. 2013. Sexual and natural selection on song across the temporally complex hybrid zone of Tufted and Black-crested Titmice (Paridae). American Ornithologists' Union/Cooper Ornithological Society joint meeting: Chicago, IL. (Oral presentation).

**Curry, C.M.\*** and M.A. Patten. 2013. Sexual and natural selection on song across a temporally complex passerine hybrid zone. Evolution 2013 meeting: Snowbird, UT. (Poster presentation).

**Curry, C.M.**\* and M.A. Patten. 2012. Evolution of song variation across a complex hybrid zone in Tufted and Black-crested titmice. Oklahoma Ornithological Society meeting: Oklahoma City, OK. (Oral presentation). **Won “Best Oral Presentation by a Graduate Student”.**

**Curry, C.M.\*** and M.A. Patten. 2012. Evolution of song variation across a complex hybrid zone in Tufted and Black-crested titmice. North American Ornithological Conference: Vancouver, BC. (Poster presentation).

**Curry, C.M.\*** and M.A. Patten. 2012. Causes and consequences of song variation across a temporally complex passerine hybrid zone. First Joint Congress on Evolutionary Biology: Ottawa, ON. (Oral presentation).

**Curry, C.M.\*** and M.A. Patten. 2011. Causes of song variation across the titmouse hybrid zones in Oklahoma and Texas. Oklahoma Ornithological Society meeting: Edmond, OK. (Oral presentation).

**Curry, C.M.\*** and M.A. Patten. 2011. Song varies across younger and older hybrid zones in Black-crested (*Baeolophus atricristatus*) and Tufted (*B. bicolor*) titmice. Evolution 2011 meeting: Norman, OK. (Oral presentation).

**Curry, C.M.\*** and M.A. Patten. 2011. Song varies across younger and older hybrid zones in Black-crested (*Baeolophus atricristatus*) and Tufted (*B. bicolor*) titmice. Association of Field Ornithologists/Cooper Ornithological Society/Wilson Ornithological Society joint meeting: Kearney, NE. (Oral presentation).

**Curry, C.M.\*** and M.A. Patten. 2010. Vocal dynamics of a complex avian hybrid zone. Oklahoma Ornithological Society meeting: Stillwater, OK. (Oral presentation).

**Curry, C.M.\*** and M.A. Patten. 2010. Vocal dynamics of a complex avian hybrid zone. Association of Field Ornithologists’ annual meeting: Ogden, UT. (Poster presentation.)

**Curry, C.M.\*** and M.A. Patten. 2010. Vocal dynamics of a complex avian hybrid zone. Southwestern Association of Naturalists annual meeting: Junction, TX. (Poster presentation).

**Curry, C.M.**\* and J.H. Kennedy. 2008. Factors affecting interaction rates and space use of *Plathemis lydia* (Drury 1773) (Odonata: Libellulidae). Southwestern Branch of the Entomological Society of America/Society of Southwestern Entomologists joint meeting: Fort Worth, TX. (Poster presentation).

**Curry, C.M.**\* and J.H. Kennedy. 2008. Factors affecting interaction rates and space use of *Plathemis lydia* (Drury 1773) (Odonata: Libellulidae). Southwestern Association of Naturalists annual meeting: Memphis, TN. (Oral presentation).

## Seminars, guest lectures, and public presentations (\*indicates presenter)

Koper, N.\*, D. Bruinsma, **C.M. Curry**, L. McDonald, M. Warrington, J. Bernath-Plaisted, H. Nenninger, and E. Prokopanko. 2016. If we build it, will they come? Manitoba’s grassland birds and their native prairie habitats. Living Prairie Museum Public Lecture Series, Winnipeg, Manitoba, Canada.

Koper, N.\*, **C.M. Curry**, B. Antze, J. Daniel, H. Nenninger, J. Bernath-Plaisted, P. Rosa, and M. Warrington, M. 2016. Effects of energy infrastructure on grassland songbirds. Cenovus Lunch and Learn seminar series (invited), Cenovus Energy, Calgary, Alberta, Canada.

**Curry, C.M.\*** 2015. Management and analysis of quantitative data. Guest lecture in Master’s Thesis Research Seminar (NRI 7262). (Invited by the instructor, Dr. John Sinclair).

Koper, N.\*, J. Bernath-Plaisted, **C.M. Curry**, B. Antze, M. Warrington, H. Nenninger, C. Swider, and P. Rosa. 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, Ottawa, Canada. September 23, 2015. (Dr. Nicola Koper invited speaker; I was co-author.)

Koper, N.\*, P. Rosa, J. Lockhart, T. Lwiwski, J. Rodgers, K. Molloy, **C.M. Curry**, S. Fischer, C. Swider, and J. Yoo. 2015. From mensurative to manipulative: diverse study designs to understand effects of anthropogenic disturbance and habitat fragmentation on grassland birds. Ontario Grassland Guild: Guelph, ON.

Koper, N.\*, J. Rodgers, J. Yoo, K. Molloy, J. Bernath-Plaisted, **C.M. Curry**, B. Antze, M. Warrington, H. Nenninger, C. Swider, and P. Rosa. 2015. Effects of shallow gas and oil infrastructure and operating noise on grassland songbirds. Canadian Wildlife Service: Edmonton, AB.

**Curry, C.M.\*** 2014. Adaptation and evolution: the role of evolution in conservation and management. Guest lecture in **Ecological Dimensions of Resource and Environmental Management (NRI7232)**. Natural Resources Institute, University of Manitoba, Winnipeg, MB. (Invited by the instructor, Dr. Nicola Koper).

**Curry, C.M.\*** 2014. Evolution of reproductive isolation in a temporally complex songbird hybrid zone. Seminar at Natural Resources Institute, University of Manitoba, Winnipeg, MB. (Oral presentation).

**Curry, C.M.\*** 2013. The evolution of reproductive isolation in a temporally complex passerine hybrid zone. Ecology and Evolutionary Biology seminar at Kansas State University: Manhattan, KS. (Invited seminar, host Dr. Brett Sandercock).

**Curry, C.M.\*** 2013. The evolution of reproductive isolation in a temporally complex passerine hybrid zone. Biology department seminar, University of Oklahoma: Norman, OK. (Oral presentation).

**Curry, C.M.\*** and M.A. Patten. 2011. Song varies across younger and older hybrid zones in Black-crested (*Baeolophus atricristatus*) and Tufted (*B. bicolor*) titmice. Ecology and Evolutionary Biology seminar (“Ecomunch”) at University of Oklahoma: Norman, OK. (Oral presentation).

**Curry, C.M.\*** and M.A. Patten. 2011. Song varies across younger and older hybrid zones in Black-crested (*Baeolophus atricristatus*) and Tufted (*B. bicolor*) titmice. Graduate College Student Research and Performance Day, University of Oklahoma: Norman, OK. (Poster presentation).

**Curry, C.M.\*** and M.A. Patten. 2010. Song differences between Tufted and Black-crested Titmouse. Graduate College Student Research and Performance Day, University of Oklahoma: Norman, OK. (Poster presentation).

**Curry, C.M.\*** 2009. Genetic and behavioral dynamics in a complex avian hybrid zone. Ecology and Evolutionary Biology seminar (“Ecomunch”) at University of Oklahoma: Norman, OK. (Oral presentation).

## Teaching Experience

|  |  |  |
| --- | --- | --- |
| 2015-2016 (winter only)  Two semesters | Study Design and Quantitative Methods in Natural Resource Management (graduate)  Co-instructor with Dr. Nicola Koper | Presenting R code to implement statistical methods; lecture on multivariate statistics; and grading half of assignments. |
| 2015 (fall)  One semester | Ecological Dimensions of Natural Resource Management (graduate)  Sessional instructor | Instructor: lecture, guide discussions, grade assignments. |
| 2012 (spring)  One semester | Intro. to Evolution, Ecology, and Diversity (undergraduate, majors)  Professor: Dr. Phil Gibson  Graduate teaching assistant. | Presentation of weekly lab materials, creating and grading quizzes, grading lecture exams, proctoring lecture and lab exams, and guiding students through lab experiments. |
| 2009-2012 (fall only)  Four semesters | Entomology (undergraduate/graduate)  Professor: Dr. Ken Hobson Graduate teaching assistant. | Presentation of insect orders and families; creating and grading quizzes and exam; and leading students on field trips. |
| 2008, 2012 (fall only)  Two semesters | Introductory Zoology Lab (undergraduate, non-majors)  Professor: Dr. Penny Hopkins Graduate teaching assistant. | Lecturing on the day’s lab topic, assisting students with dissections, and writing, administering, and grading quizzes. |
| 2009 (spring & fall), 2010-2011 (fall only)  Four semesters | Principles of Ecology (undergraduate, majors) Professor: Dr. Ken Hobson Graduate teaching assistant | Discussion of concepts, guiding students through field experiments; and grading lab reports. |
| 2006, 2007 (fall only)  Two semesters | Insect Biology Lab (undergraduate/graduate)  Professor: Dr. James Kennedy Volunteer teaching assistant | Help students with keying insects, assist students on field trips, and proctor exams and quizzes with the graduate teaching assistants. |

## Fellowships, Awards, and Honors

|  |  |  |  |
| --- | --- | --- | --- |
| August 2012-March 2014 (graduation) | GAANN (Graduate Assistance in Areas of National Need) Fellow | Department of Education | Nominated by department; covers stipend, tuition, fees |
| 2008-2014 | Alumni Fellow | University of Oklahoma Graduate College | “emphasizes the recruitment and retention of outstanding graduate students”. More information at <http://www.ou.edu/gradweb/funding\_and\_aid/fellowships.html>. |
| May 2013 | Biology Department Award for Excellence in Graduate Student Teaching | University of Oklahoma Department of Biology | Nominated for teaching Ecology and Entomology Labs. |
| October 2012 | Best oral presentation by a graduate student | Oklahoma Ornithological Society | Fall 2012 technical meeting |
| Spring 2005-Fall 2007 | President’s List | University of North Texas | For 4.00 GPA while completing at least 12 credit hours in a semester |
| 2003 | National Grasslands Prairie Partner Award (shared with M. Curry) | National Grasslands Council | For volunteer work at the Lyndon B. Johnson National Grasslands. |

## Successful funding

Association of Field Ornithologists’ Post-Doctoral Travel Award, August 2016, to attend NAOC2016 meeting in Washington, DC, $260.

American Ornithologists Union/Cooper Ornithological Society/Society of Canadian Ornithologists Joint Student Travel Award, September 2014, to attend AOU/COS/SCO joint meeting in Estes Park, CO, $370.

American Ornithologists Union/Cooper Ornithological Society Student Travel Award, August 2013, to attend AOU/COS joint meeting in Chicago, IL, $333.

OU College of Arts and Sciences Student Travel Fund, August 2013, travel to joint meeting in Chicago, IL, Utah in August 2013, $750.

American Society of Naturalists Student Travel Award, June 2013, to attend Evolution 2013 meeting in Snowbird, UT, $500.

OU Department of Biology, May 2013, to attend Evolution 2013 meeting in Snowbird, UT in June 2013, $250.

M. Blanche Adams and M. Frances Adams Memorial Scholarships in Zoology: Summer Research Scholarship, summer 2012, proposal title “**Evolution of reproductive isolation in a spatially and temporally complex songbird hybrid zone**”; summer research assistantship in department, $2500.

Sigma Xi Grant-in-Aid of Research, Spring 2012, proposal title “**Evolution of reproductive isolation in a spatially and temporally complex songbird hybrid zone**”, travel mileage to field sites, $500.

George Miksch Sutton Scholarship in Ornithology, 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, $3500.

Frank M. Chapman Memorial Fund Grant, American Museum of Natural History, funding period 2012-2013, proposal title “Shadow of a doubt: species recognition in a complex avian hybrid zone”, research expenses and genetic analysis costs, $2000.

OU College of Arts and Sciences Student Travel Fund, August 2012, travel to North American Ornithological Conference in Vancouver BC in August 2012, $750.

Student Travel Award from 2012 North American Ornithological Conference in Vancouver BC, $300.

Frank M. Chapman Memorial Fund Grant, American Museum of Natural History, funding period 2011-2013, proposal title “Why songs change over space and time in a complex avian hybrid zone”, research expenses and genetic analysis costs, $2000.

Oklahoma Ornithological Society, 2012, proposal title “**Shadow of a doubt: species recognition and fitness in a complex avian hybrid zone**”, research expenses, $500.

M. Blanche Adams and M. Frances Adams Memorial Scholarships in Zoology: Academic Year Scholarship 2011-2012, proposal title “Behavioral and genetic dynamics of a complex avian hybrid zone”; for professional travel and research expenses, $1000.

M. Blanche Adams and M. Frances Adams Memorial Scholarships in Zoology: Summer Research Scholarship, summer 2011, proposal title “Behavioral and genetic dynamics of a complex avian hybrid zone”; summer research assistantship in department, $2500.

George Miksch Sutton Scholarship in Ornithology, 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, $6700.

OU Department of Zoology, February 2011, travel to Association of Field Ornithologists/Cooper Ornithological Society/Wilson Ornithological Society joint meeting in Kearney, Nebraska in March 2011, $250.

OU College of Arts and Sciences Student Travel Fund, October 2010, travel to Association of Field Ornithologists' conference in Ogden, Utah in August 2010, $750.

OU Robberson Travel Grant, October 2010, travel to Association of Field Ornithologists' conference in Ogden, Utah in August 2010, $500 (granted once per degree).

Oklahoma Ornithological Society, 2010, proposal title “Genetic and vocal dynamics of a complex avian hybrid zone”, research expenses, $400.

M. Blanche Adams and M. Frances Adams Memorial Scholarships in Zoology: Academic Year Scholarship 2010-2011, proposal title “Behavioral and genetic dynamics of a complex avian hybrid zone”; for professional travel and research expenses, $1000.

M. Blanche Adams and M. Frances Adams Memorial Scholarships in Zoology: Summer Research Scholarship, 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), $756.

George Miksch Sutton Scholarship in Ornithology, 2010, proposal title “Dynamics of a complex avian hybrid zone”, research equipment, travel, lab expenses, and partial summer stipend, $4800.

OU Graduate Student Senate Research and Creative Endeavors Grant, spring 2010; research equipment and travel to north-central Texas to examine field sites, $224.82.

OU Graduate Student Senate Conference and Creative Exhibition Grant, spring 2010; lodging and daily expenses at Southwestern Association of Naturalists’ meeting in Junction, TX, $79.86.

OU Robberson Research Grant, February 2010, research travel and genetic analysis costs, $1000 (granted once per degree).

OU Graduate Student Senate Research and Creative Endeavors Grant, fall 2009; travel expenses to southwestern Oklahoma to examine field sites, $315.62.

Carl and Pat Bynum Riggs Scholarship, Summer 2009; to defray expenses of course tuition and fees for O.U. Biological Station summer session; Molecular Techniques for Field Biology class, $500.

M. Blanche Adams and M. Frances Adams Memorial Scholarships in Zoology: Summer Research Scholarship, summer 2009, proposal title “Behavioral and genetic dynamics of a complex avian hybrid zone”; summer research assistantship in department, $2500.

George Miksch Sutton Scholarship in Ornithology, 2009, proposal title “Dynamics of a complex avian hybrid zone”; research equipment and travel expenses, $5000.

## Declined proposals

*2014-2015*

Alberta Conservation Association, proposal title “Effects of energy development noise on grassland songbird behaviour”, CA$22,787.98, written as co-applicant with PI Dr. Nicola Koper.

*2013-2014*

National Science Foundation, proposal title “Latitudinal comparison of hybrid zone genomics”, Post-doctoral research fellowship in biology ($138,000).

*2012-2013*

OU Graduate College T.H. Lee Williams International Travel Scholarship, no title, $1000.

*2011-2012*

M. Blanche Adams and M. Frances Adams Memorial Scholarships in Zoology: Academic Year Scholarship, proposal title “Evolution of reproductive isolation in a spatially and temporally complex songbird hybrid zone”, $1000.

American Ornithologists' Union, proposal title “Shadow of a doubt: species recognition and fitness in a complex avian hybrid zone”, $2500.

Explorers Club, proposal title “Shadow of a doubt: species recognition in a complex avian hybrid zone”, $1785.

National Science Foundation, proposal title “DISSERTATION RESEARCH: Behavioral mechanisms maintaining younger and older hybrid zones in an avian species complex“, $14,999.

*2010-2011*

Graduate Student Senate Research Grant (Spring 2011), no title, $750.

American Ornithologists' Union, “Why songs change over space and time in a titmouse hybrid zone”, $2500.

Oklahoma Ornithological Society, “Shadow of a doubt: Species recognition and mate choice in the Tufted and Black-crested Titmouse hybrid zone”, $996.98.

Sigma Xi, “Shadow of a doubt: species recognition in a complex avian hybrid zone”, $1000.

Society for Integrative and Comparative Biology, “Shadow of a doubt: species recognition in a complex avian hybrid zone”, $1000.

Wilson Ornithological Society, “Why songs change over space and time in a titmouse hybrid zone”, $2500.

National Science Foundation (Doctoral Dissertation Improvement Grant), “DISSERTATION RESEARCH: We meet again: Behavior and fitness in old and new hybrid zones of a single species complex”, $15000.

*2009-2010*

OU College of Arts and Sciences Price and Sturgis scholarships, [no proposal title], $2400.

Sigma Xi, “Genetic and behavioral dynamics of a complex avian hybrid zone”, $1000, pending.

Oklahoma Ornithological Society, “Genetic and vocal dynamics of a complex avian hybrid zone”, $1000.

American Ornithologists’ Union, “Genetic and vocal dynamics of a complex avian hybrid zone”, $2500.

*2008-2009*

NSF Graduate Research Fellowship Program; Genetic and Behavioral Dynamics in a Complex Avian Hybrid Zone; $40,500 per year ($10,500 for tuition; $30,000 for stipend) for 3- year fellowship.

## Professional Memberships

American Ornithologists’ Union (2010-present)

Association of Field Ornithologists (2012-present)

The Wildlife Society (2015-2016)

Manitoba Chapter of The Wildlife society (2016-present)

Wilson Ornithological Society (2011-2015)

Cooper Ornithological Society (2011-2015)

Society for the Study of Evolution (2011-2015)

American Society of Naturalists (2012-2014)

Society for Integrative and Comparative Biology (2010-2011)

Southwestern Association of Naturalists (2008-2010)

## Professional Service

Judged undergraduate presentations (oral presentations and posters)

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.

Department of Biology Graduate Selections Committee graduate student representative (2010-2013 academic years); provide comments on new graduate student applications to the department.

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.

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.”

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).

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).

Reviewed papers for *Diversity and Distributions*, *Rangeland Ecology and Management*, *Auk*, *Ibis*, *Condor, Wilson Journal of Ornithology, Northeastern Naturalist*

Mentoring

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, plus additional help to Master’s (2) and Ph.D. (1) students at the Natural Resources Institute and Biology departments.

Alexandra Ainsworth (spring 2012): undergraduate independent study (3 credit hours); she fed captive birds, assisted with mate choice trial set-up, bird capture, DNA extraction using Qiagen DNeasy kits, PCR, and agarose gel electrophoresis.

S. Hope Stuart (January-April 2012, January-March 2013): volunteer was a recent OU graduate wanting field experience before applying to jobs and/or graduate school. She is learning about mist-netting, trapping, banding, setting up mate choice trials, maintaining captive birds, DNA extraction using Qiagen DNeasy kits, PCR, and agarose gel electrophoresis. Currently working as a clinical research coordinator at UT Southwestern in Dallas, TX.

## Public Service, Outreach, and Popular Articles

**Curry, C.M.\*** 2015. Evolution in action in Oklahoma and Texas. Presentations via teleconference to high school students in Jenks, Oklahoma AP Environmental Science classes (four periods, Mr. Bryan Yockers) about the evolution of reproductive isolation in titmice.

**Curry, C.M.\***  2012. Titmice in Oklahoma and Texas: what makes a hybrid zone? Oklahoma City Audubon Society: Oklahoma City, OK. (Public talk).

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, Oklahoma.

Guided bird walk for Fort Griffin State Historic Site, TX, June 2011.

**Curry, C.M.**\* 2009. Hybrid zones: titmice and the nature of species. Darwin-a-thon public education event at University of Oklahoma: Norman, OK. (Public talk).

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.

Have co-presented talks about birds and ecology to 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, and 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.

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.

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.

Popular articles:

Monthly “Birds and Beyond” column for a small Texas newspaper, the Wise County Messenger. 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, Claire. 2004. West Nile virus: birds, people, and Texas.” *Texas Birds* 5(1):14-16.

-A short review of West Nile Virus after its initial outbreak.

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

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

Curry, Claire. 2004. Flight path: Young Birder of the Year contest ~ A birding essay: Stubs. *Birding* August 36(4):354-356.

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

Curry, Claire. 2004. Real birders drool. IN Claire Curry, Robert M. Milardo, and Richard Frechette. 2004. Dimensions: Three flights of fancy. *Birding* 36(3):288-289.

-Humorous essay on the canine birding experience.

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

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

## training and computer Skills

Statistical programs

R 3.0+ (including packages ‘dplyr’ for data, ‘lme4’ and ‘nlme’ for mixed models, and ‘sqldf’ to perform SQL queries within R)

SAS 9.2+

Databases

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)

Specialized software

Raven Pro 1.5 sound analysis software

Zotero 3.0.7+ bibliography software

Phylogenetic software (basic procedures): MRBAYES 3.1.2, RAxML, GARLI 1.0, FigTree, and MEGA 4.0

Word processing and spreadsheets

Microsoft Office: Word, Access, Excel, PowerPoint, OneNote

LibreOffice 3.3.0+: Writer, Impress (PowerPoint equivalent), Base (Access equivalent)

Geographic information systems

QuantumGIS opensource GIS software v. 2.10+

ArcGIS 9.2 and later. Current use for research plus completed course Introduction to Geographic Information Systems course (UNT, Fall 2007).

Graphics

SigmaPlot 11.0

Inkscape 0.48 (creating vector graphics)

Training workshops attended

Geometric morphology analysis (led by Nate Franssen, OU)

Dr. Robin Wright active learning workshop (12 April 2012, at OU).

## References

Dr. Nicola Koper

Natural Resources Institute

University of Manitoba

Phone: +1 (204) 474-8768

Email: [Nicola.Koper@umanitoba.ca](mailto:Nicola.Koper@umanitoba.ca)

Dr. Michael A. Patten

Oklahoma Biological Survey

University of Oklahoma

Phone: (405) 325-5061

Email: [mpatten@ou.edu](mailto:mpatten@ou.edu).

Dr. Jeffrey Kelly

Oklahoma Biological Survey

University of Oklahoma

Phone: (405) 325-2440

Email: [jkelly@ou.edu](mailto:jkelly@ou.edu)