

Curriculum Vitae
L. LaReesa Wolfenbarger

Current position and contact information

Professor & Chair	Tel. 402/554-2405
Department of Biology	Fax. 402/554-3532
University of Nebraska at Omaha	lwolfenbarger@unomaha.edu
6001 Dodge Street	
Omaha, NE 68182-0040	

Professional Recognition

- Fulbright Scholar, 2008-2009
- Committee Member and Lead Chapter Author for the National Research Council, National Academies report on The Impact of Biotechnology on Farm Economics and Sustainability, 2008 – 2010.
- Steering Committee Member for the National Research Council, National Academies Workshop on Research to Improve the Evaluation of the Impacts of Genetically Engineered Organisms on Terrestrial and Aquatic Wildlife and Habitats, 2006-2007.
- Invited speaker on Environmental Impacts and Social Responses to Genetically Engineered Crops as part of a Distinguished Lecturer Series: Food for Thought, Biotechnology Outreach Center, Oregon State University, 2005
- Fellow, Center for Great Plains Studies, 2002 to present
- Invited speaker for the Libra Distinguished Lecture Series on Bioethics, University of Maine – Machias, 2001.
- American Association for the Advancement of Science (AAAS) Science Policy Fellow
- National Science Foundation/A.P. Sloan Foundation Postdoctoral Research Fellow

Education

Ph.D.: Cornell University, Ithaca, NY, August 1996
Dissertation Title: The functional significance of red coloration in male Northern Cardinals (*Cardinalis cardinalis*)
Co-advisors: Dr. Stephen T. Emlen and Dr. Paul W. Sherman
Committee members: Dr. David Winkler, Dr. Richard Harrison, and Dr. Anne Schneiderman

B.Sc.: December 1987, University of California at Los Angeles
Major: Biology

Professional Positions

August 2001- present: Professor and Chair of Biology (2016 – present), University of Nebraska at Omaha (UNO)
Associate Professor of Biology, (UNO) and Adjunct Professor, College of Natural Resources, University of Nebraska–Lincoln (2004- 2016)
Prairie Manager and Adjunct Associate Professor of Biology and (2001 – 2004), (UNO).

- Conduct research on ecological effects of land use and land management for grassland bird, butterfly and shorebird conservation with an emphasis on conservation and agricultural management; synthesize science on ecological impacts of agricultural biotechnology; advise graduate students; teach undergraduate and graduate level courses; organize public symposia on environmental issues; Graduate Program Committee Chair (2003-2005, 2009-2011); manage 160-acre prairie preserve (2001-2004).

August 2008 – June 2009: *Fulbright Research Scholar, Center for Ecological and Evolutionary Synthesis, University of Oslo, Norway.*

- Conducted seminars and research on ecological forecasting; developed collaborations with a multi-national, interdisciplinary group of colleagues; synthesized long-term databases on agriculture with Breeding Bird Survey database.

May 2001 – Sept 2003: *Senior Program Associate, Information Systems for Biotechnology, Department of Biochemistry, Virginia Polytechnic Institute and State University.*

- Developed and organized programs that promote communication among scientists, regulators and policymakers on biotechnology; synthesized science on agricultural biotechnology.

January 2001 – June 2001: *Ecologist, U.S. Environmental Protection Agency, Office of Research and Development, National Center for Environmental Assessment, Washington, DC.*

- Synthesized science on agricultural biotechnology, invasive species, and general ecology for regulators and policymakers; identified gaps in research and developed research priorities on agricultural biotechnology; developed internal budget initiatives for priority areas; contributed to development of internal research program in agricultural biotechnology.

September 1999 – January 2001: *Science and Policy Fellow, U.S. Environmental Protection Agency, Office of Research and Development, National Center for Environmental Assessment, Washington, DC.*

- Awarded competitive fellowship through the American Association for the Advancement of Science (AAAS); synthesized science on agricultural biotechnology, invasive species, and general ecology for regulators and policymakers; identified gaps in research and developed research priorities on agricultural biotechnology; served as scientific resource to the U.S. State Department during preparations for negotiating the Cartagena agreement (International Biosafety Protocol).

January 1999 – June 2000: *Research Associate and Instructor, Department of Biology, University of Maryland, College Park, MD*

- Completed research on the evolutionary genetics of stalk-eyed flies; responsible for 1/2 of lectures and laboratories for Spring 1999 section of Honors Introductory Biology.

January 1997 – January 1999: *National Science Foundation/A.P. Sloan Foundation Postdoctoral Research Fellow, Department of Biology, University of Maryland, College Park, MD.*

- Conducted and funded collaborative research on the evolutionary genetics of stalk-eyed flies; trained graduate and undergraduate students.

September 1997 – May 1998: *Visiting Postdoctoral Researcher, Department of Biology, University of South Carolina, Columbia, SC.*

- Conducted research on the evolutionary genetics of stalk-eyed flies; in charge of laboratory during the sabbatical year of lab director (Dr. Tim Mousseau); supervised technicians, graduate and undergraduate students.

Jan – May 1996: *Adjunct Instructor, State University of New York, Brockport, NY. Spring 1996.*

- Responsible for 1/3 of lectures and exams for undergraduate course in Evolution.

September 1989 – July 1996: *Graduate Student and Doctoral Candidate, Field of Neurobiology and Behavior, Cornell University, Ithaca, NY.*

- Conducted and funded independent research on the reproductive ecology of Northern Cardinals; worked as a teaching assistant for courses in Animal Behavior, Evolution, Ornithology and Introductory Biology.

Teaching Experience

Conservation Biology, Spring semesters 2005 – 2008, 2010 –2015

- Course for undergraduate and graduate students; conceptual and applied principles of conservation

Introductory Biology, 2010-2015

- Course for first semester Biology majors emphasizing general concepts and laboratory skills

Environmental Problems and Solutions, 2010-2015

- Course for Freshmen Environmental Studies students; introduction to breadth of environmental issues using seminar and discussion format

Fauna of the Great Plains, Fall 2006, 2007

- Course for undergraduate and graduate students; survey of animal taxa in the Great Plains, their natural history and methods for ecological studies on them.

Science and Environmental Policy, Spring 2004

- Course for graduate students; how science and scientists influence policy; course group project synthesizing science related to current environmental issue.

Advanced Readings in Biology, Spring 2003 – 2006, 2010 – 2012

- Course for entry-level graduate students; weekly readings and discussions focus on development of critical thinking and hypothesis testing for thesis projects.

Honors Introductory Biology, Co-Instructor (with Dr. G. S. Wilkinson). Spring 1999

- Responsible for 1/3 of lectures, laboratory, exams and grading. Supervised teaching assistants.

Evolution, Adjunct Instructor (with Dr. D. Smith), SUNY, Brockport, Spring 1996

- Responsible for 1/3 of lectures and exams.

Publications

Coauthor footnotes designate ¹ Postdoctoral researcher, ² Graduate student, or ³ Undergraduate student working in my lab.

Peer-reviewed articles

McCarty, J. P., J. G. Jorgensen, J. M. Michaud, and L. L. Wolfenbarger. 2015. Buff-breasted Sandpiper stopover duration in the Rainwater Basin, Nebraska, in relation to the temporal and spatial migration patterns in the Great Plains of North America. *Wader Study* 122: 243-254.

Cox, WA¹, LL Wolfenbarger, LI Berkeley², SE Engberg², WM Janousek, PE Klug², NL Rider² and JP McCarty. 2014. Grassland bird communities on conservation and marginal grasslands in an agricultural landscape. *Agriculture, Ecosystems and Environment* 193: 53-59.

McLaughlin ME², WM Janousek, JP McCarty, and LL Wolfenbarger. 2014. Effects of urbanization on site occupancy and density of grassland birds in tallgrass prairie fragments. *Journal of Field Ornithology* 85: 258-273.

Farhat YA³, WM Janousek, JP McCarty, NL Rider² and LL Wolfenbarger. 2014. Comparison of butterfly communities and abundances between marginal grasslands and conservation lands in the eastern Great Plains. *Journal of Insect Conservation* 18: 245-256.

Wolfenbarger LL, MDK Owen and Y Carrière. 2010. Environmental opportunities and challenges of genetically-engineered crops. *Choices*. 25(2). Online access: <http://www.choicesmagazine.org/magazine/block.php?block=48>.

- Klug P², LL Wolfenbarger and JP McCarty. 2010. Snakes are important nest predators of Dickcissels in an agricultural landscape. *The Wilson Journal of Ornithology* 122: 799-803
- McCarty JP, JG Jorgensen and LL Wolfenbarger. 2009. Behavior of Buff-breasted Sandpipers (*Tryngites subruficollis*) during migratory stopover in agricultural fields. *PLoS ONE* 4(11): e8000. doi:10.1371/journal.pone.0008000
- Jorgensen JG, JP McCarty and LL Wolfenbarger. 2009. Killdeer *Charadrius vociferous* breeding abundance and habitat use in the Eastern Rainwater Basin, Nebraska. *International Wader Study Group Bulletin* 116:65-68.
- Klug P², LL Wolfenbarger and JP McCarty. 2009. The nest predator community of grassland birds responds to agroecosystem habitat at multiple scales. *Ecography*. 32: 973-982 [doi:10.1111/j.0906-7590.2009.05857.x].
- Marvier M, Y Carrière, N Ellstrand, P Gepts, P Kareiva, E Rosi-Marshall, BE Tabashnik and LL Wolfenbarger 2008. Ecology – Harvesting data from genetically engineered crops. *Science* 320: 452-453
- Wolfenbarger LL, SE Naranjo, JG Lundgren, RJ Bitzer and LS Watrud. 2008. Bt crop effects on functional guilds of non-target arthropods: a meta-analysis. *Public Library of Science (PLoS) One* 3(5): e2118.
- Jorgensen JG², JP McCarty and LL Wolfenbarger. 2008. Buff-breasted Sandpiper density and numbers during migratory stopover in the Rainwater Basin, Nebraska. *Condor* 110: 63-69.
- Jorgensen JG², JP McCarty and LL Wolfenbarger. 2007. Landscape and habitat variables affecting Buff-breasted Sandpiper, *Tryngites subruficollis*, distribution during migratory stopover in the Rainwater Basin, Nebraska. *International Wader Study Group Bulletin* 112: 45-51.
- Berkeley LI², JP McCarty and LL Wolfenbarger. 2007. Postfledging survival and movement in dickcissels (*Spiza americana*): implications for habitat management and conservation. *Auk* 124: 396-409.
- Jorgensen, JG², JP McCarty, LL Wolfenbarger, M Ealy, and B Ortego. 2006. Buff-breasted Sandpiper abundance, distribution, and habitat use during migration in the Rainwater Basin, Nebraska (and Texas). [Published Abstract]. *Wader Study Group Bulletin* 109:21.
- Johns PM, LL Wolfenbarger, and GS Wilkinson. 2005. Genetic linkage between a sexually selected trait and X chromosome meiotic drive. *Proceedings of the Royal Society of London B* 272: 2097-2103.
- Snow AA, DA Andow, P Gepts, E Hallerman, A Power, JM Tiedje and LL Wolfenbarger. 2005. Genetically engineered organisms and the environment: current status and recommendations. *Ecological Applications* 15:377-404.
- Wolfenbarger LL. 2004. Genetically engineered organisms: impacts on and consequences for the environment. *Frontiers in Ecology and Evolution* 2: 154-155.
- Wolfenbarger LL and Wilkinson GS. 2001. Sex-linked expression of a sexually selected trait in the stalk-eyed fly, *Cyrtodiopsis dalmanni*. *Evolution* 55:103-110.
- Wolfenbarger LL and Phifer PR. 2000. The ecological risks and benefits of genetically engineered plants. *Science* 290: 2088-2093.
- Wolfenbarger LL 1999. Red coloration of male Northern Cardinals correlates with mate quality and territory quality. *Behavioral Ecology* 10:80-90.
- Mueller UG and LL Wolfenbarger. 1999. Amplified Fragment Length Polymorphism (AFLP) genotyping and fingerprinting. *Trends in Ecology and Evolution* 14: 389-394.

- Wolfenbarger LL. 1999. Female mate choice in Northern Cardinals (*Cardinalis cardinalis*): is there a preference for redder males? *Wilson Bulletin* 111: 76-83.
- Wolfenbarger LL. 1999. Is red coloration of male Northern Cardinals (*Cardinalis cardinalis*) beneficial during the non-breeding season: a test of status signaling. *The Condor* 101: 655-663.
- Sherman PW and Wolfenbarger LL. 1995. Genetic correlations as tests for sensory exploitation? *Trends in Ecology and Evolution* 10: 246.

Books and Book chapters

- Wolfenbarger LL, Y Carrière and MDK Owen. 2014. Chapter 29 Environmental Effects. In *Handbook on Agriculture, Biotechnology and Development*, Eds. SJ Smyth, D Castle and PWB Phillips. Edward Elgar Publishing Ltd: Cheltenham, UK.
- Wolfenbarger LL and JP McCarty. 2011. Agriculture—Genetically Engineered Crops. In *Berkshire Encyclopedia of Sustainability*, Volume 4, Natural Resources, edited by S Fredericks, L Shen and L Gomez-Echeverri. Berkshire Publishing Company: Barrington, MA.
- Grumet R, LL Wolfenbarger and A Ferenczi. 2011. Future possible genetically engineered crops and traits and their potential concerns. In *Environmental Safety of Genetically Engineered Crops*, edited by R Grumet, JF Hancock, KM Maredia and C Weebadde. East Lansing: Michigan State University Press.
- National Research Council. 2010. *The Impact of Genetically Engineered Crops on Farm Sustainability in the United States*. Washington, DC: The National Academies Press, with 7 other authors.
- McCarty JP, LL Wolfenbarger and JA Wilson. 2009. Biological Impacts of Climate Change. In *Encyclopedia of Life Sciences*. John Wiley & Sons, Ltd: Chichester <http://www.els.net/> [doi:10.1002/9780470015902.a0020480]
- Agar N, DM Lodge, G McKenny and LL Wolfenbarger. 2008. Biodiversity and biotechnology. In *Altering Nature, Volume Two: Religion, Biotechnology and Public Policy*, Ed. by AB Lustig, B Brody, and G McKenny. Dordrecht: Springer.20.
- Jorgensen JG, JP McCarty and LL Wolfenbarger. 2008. Buff-breasted Sandpiper density and numbers during migratory stopover in the Rainwater Basin, Nebraska. *The Condor* 110: 63-69.
- Wolfenbarger LL and PR Phifer. 2003. Biosafety science: overview of plant risk issues. In *Encyclopedia of Plant and Crop Sciences*. Robert M. Goodman, ed. Marcel Dekker, Inc.: New York.

Non-refereed publications

- Wolfenbarger LL. 2003. Book review: The Nature of Nebraska, by Paul Johnsgard. *Great Plains Research* 13: 352.
- Wolfenbarger LL. 2002. *Proceedings to a Workshop on Criteria for Field Testing Plants with Engineered Regulatory, Signaling and Metabolic Pathways*. Information Systems for Biotechnology, Virginia Polytechnic Institute and State University: Blacksburg, VA.10.
- Wolfenbarger LL. 2002. Book review: Genetically Engineered Organisms: Assessing Environmental and Human Health Effects, edited by Deborah K. Letourneau and Beth Elpern Burrows. *American Journal of Alternative Agriculture* 17: 203-204.
- Wolfenbarger LL and Phifer PR. 2001. Replies to Letters to the Editor. *Science* 292:637-638.
- Sherman PW and Wolfenbarger LL. 1995. Reply from P. W. Sherman and LL Wolfenbarger. *Trends in Ecology and Evolution* 10: 489.

In review

- Janousek, W. M., P. E. Klug, J. P. McCarty, W. A. Cox, L. I. Berkeley, and L. L. Wolfenbarger. In Revision. The Conservation Value of Marginal Grasslands in a High-Intensity Agricultural Landscape for an Obligate Grassland Bird, the Dickcissel (*Spiza americana*). Being revised for Journal of Wildlife Management.
- McCarty, J. P., W. M. Janousek, L. I. Berkeley, P. E. Klug, and L. L. Wolfenbarger. In Revision. Implications of nest site selection for reproductive success in Dickcissels. Being revised for Wilson Journal of Ornithology.

Participation in Science Policy and Translational Ecology

- Invited Panelist, Workshop on Examining the Oversight Issues of Plant Targeted Genetic Modifications, Humphrey School of Public Policy, University of Minnesota, Saint Paul, MN, June 2013.
- Participant, Scoping Dialogue on Genetically Modified Trees. International Union for the Conservation of Nature and The Forest Dialogue, Yale University. Gland, Switzerland. October 2012.
- Committee Member, The Impact of Biotechnology on Farm Economics and Sustainability. National Research Council, National Academies, September 2008 – May 2010. Resulting book published by The National Academies in April 2010.
- Steering Committee Member, A Workshop on Research to Improve the Evaluation of the Impacts of Genetically Engineered Organisms on Terrestrial and Aquatic Wildlife and Habitats, National Research Council, National Academies, April – December 2007.
- Invited Participant, EPA Risk Analysis Working Group, National Center of Ecological Analysis and Synthesis, Santa Barbara, CA. January 2007.
- Author (with J Poland), Developing Countries Crop Primer, prepared for the Bill and Melinda Gates Foundation. Technical summary of agronomy, nutrition and research investment for 20 crops of importance in Sub-Saharan Africa and South Asia. November 2006
- Invited speaker at U.S. Environmental Protection Agency conference on Strategic Monitoring for Ecological Impacts from Crops with Plant Incorporated Protectants, August 2004.
- Co-author (with AA Snow, DA Andow, P Gepts, EM Hallerman, A Power, JM Tiedje) on a position paper for the Ecological Society of America on genetically modified organisms. Published in *Ecological Applications*.
- Author (with Dr. Mario Gonzalez) Chapter 5, Assessment of effects on natural ecosystems, and Resource Person for Chapter 2. Identification of potential benefits and risks. Article 13 Report Transgenic Maize in Mexico. Commission on Economic Cooperation, North American Agreement on Environmental Cooperation. August 2003 – May 2004.
- Steering Committee Member, Workshop on Future Directions and Research Priorities for the USDA Biotechnology Risk Assessment Research Grants Program (BRARGP), June 9-10, 2003.
- Science Working Group Member, Nebraska Partnership for All-Bird Conservation, 2002-present.
- Program Co-chair and Organizer, Workshop on Criteria for Field Testing of Plants with Engineered Metabolic and Signaling Pathways, sponsored by Information Systems for Biotechnology, Virginia Polytechnic Institute and State University, and by the Animal Plant Health Inspection Service, U.S. Department of Agriculture, June 3-4, 2002.

Co-organizer for “The Future of the Missouri River: A Public Forum, a symposium where 300 members of the public attended to hear speakers scientific issues concerning the regulation of flow along the Missouri River and to listen to stakeholder views on the science and on interests in the management of the Missouri River. February 2002.

Current Grants

Monitoring population trends of the Buff-breasted Sandpiper in the eastern Rainwater Basin and testing models of habitat use during spring migration. (PI with coPI: JP McCarty). Granting agency: Nebraska Game and Parks Commission. January 2016 – May 2018, \$13,630.

Completed Grants

Seasonal fecundity and post-fledgling survival and habitat selection of Henslow's Sparrows. (PI with coPIs: WA Cox, JP McCarty and J Faaborg). Granting agency: U.S. Fish and Wildlife Service Regional Joint Venture, July 2014 - December 2016, \$77,960.

Minding the empirical gaps in avian demography to determine the relative importance of survival, emigration and fecundity on the adaptive capacity of populations. (PI with CoPI: A Swift, Department of Mathematics, University of Nebraska at Omaha). Fund for Investing in the Research Enterprise (FIRE), University of Nebraska Omaha, July 2014 - December 2015, \$35,000.

Persistent Effects of Wind Power Development on Prairie Grouse in Nebraska. Collaboration with LA Powell (PI), School of Natural Resources, University of Nebraska–Lincoln, MB Brown (School of Natural Resources, University of Nebraska–Lincoln), J Fontaine Nebraska (U.S. Geological Survey, Nebraska Cooperative Fish and Wildlife Research Unit), C Jezierski (U.S. Geological Survey, Nebraska Cooperative Fish and Wildlife Research Unit), JP McCarty (Department of Biology (University of Nebraska–Omaha, WH Schacht (Department of Agronomy and Horticulture, University of Nebraska–Lincoln), EJ Walsh (Boys Town National Research Hospital). Granting Agency: Nebraska Game and Parks Commission, 2012-2016 \$598,000.

Cost effective and statistically sound monitoring of Buff-breasted Sandpipers in the eastern Rainwater Basin. (PI with coPIs: JP McCarty and JG Jorgensen) Granting agency: U.S. Fish and Wildlife Service, 2011-2014. \$54,268.

Wolfenbarger LL. Review and synthesis of emerging wind power development and wildlife issues. Nebraska Game and Parks Commission, \$15,000, August 2010 – March 2011.

McCarty JP, Wolfenbarger LL, and Jorgensen JG. Stopover ecology of high-priority shorebirds in the Rainwater Basin, Nebraska. Nebraska State Wildlife Grants Program, \$31,606, April 2006 – September 2009.

McCarty JP and Wolfenbarger, L. L. Ecology of Urban Canada Geese: Searching for a Solution to Human – Wildlife Conflicts. \$8,402 from NSF STEP Early Undergraduate Research Support Grant to UNO. 2008.

McCarty JP and Wolfenbarger LL. Renewal of Cooperative Agreement with the US Fish and Wildlife Service for grassland bird research and Challenge Grant for research on visitor impacts on wildlife. \$4,600, 2006.

- McCarty JP and Wolfenbarger LL. Grassland bird conservation in agricultural landscapes: are working lands and conservation lands synergistic? University of Nebraska—Nebraska Research Initiative, \$132,684, July 2004 – June 2006.
- McCarty JP and Wolfenbarger LL. Renewal of Cooperative Agreement with the US Fish and Wildlife Service for grassland bird research and Challenge Grant for research on visitor impacts on wildlife, \$4,560, 2005.
- McCarty JP and Wolfenbarger LL. Non-game bird surveys: UNO/NGPC Inventory and Monitoring Partnership. Nebraska Game and Parks Commission, \$27,654, 2004.
- McCarty JP and Wolfenbarger LL. Renewal of Cooperative Agreement with the US Fish and Wildlife Service for grassland bird research and Challenge Grant for research on nest predators and grassland bird fledgling ecology. \$17,200, 2004.
- McCarty JP, Wolfenbarger LL and Jorgensen, J. The stopover ecology of the Buff-breasted sandpiper in the Rainwater Basin: a flagship species for shorebird conservation in Nebraska, Nebraska State Wildlife Grants Program, \$12,750. March 2004 – May 2006
- McCarty JP and Wolfenbarger LL. U.S. Fish and Wildlife Service Challenge Grant Between USFWS Boyer Chute NWR and UNO: Postfledging Ecology of Dickcissels, \$7,560, 2003.
- Wolfenbarger LL and McCarty JP. Large scale ecological effects of herbicide tolerant crops on avian communities and reproduction. Biotechnology Risk Assessment Research Grants Program, U.S. Department of Agriculture, \$270,000, September 2002 – September 2006.
- Frederick RF, Lorber M and Wolfenbarger, L. Large scale adoption of genetically modified crops: an integrated assessment of the environmental impact on human and ecological populations. Internal grant from the U.S. Environmental Protection Agency, Office of Research and Development; \$135,000, May 2001 (work reassigned when I relocated to Nebraska)
- Wolfenbarger, LL The genetic basis of sexual dimorphism in a stalk eyed fly (Diptera: Diopsidae): mapping of quantitative trait loci affecting eye span. National Science Foundation/Alfred P. Sloan Foundation, Postdoctoral Research Fellowship in Molecular Evolution, \$80,000, July 1996
- Wolfenbarger, LL Conspicuous coloration in male Northern Cardinals: possible benefits throughout the year. National Science Foundation, Dissertation Improvement Grant, September 1994; American Museum of Natural History, Chapman Fund, May 1994; Sigma Xi, Grant-in-Aid-of-Research, March 1993, 1994; Cornell Laboratory of Ornithology, Walter E. Benning Fund, March 1992; \$5,300

Presentations

68. Young, AC, WA Cox, LL Wolfenbarger. Seasonal fecundity and post-fledging survival and habitat selection of Henslow's Sparrow. North American Ornithological Conference VI, Washington, DC, August 2016.
67. Wolfenbarger, LL. Invited seminar. Conservation of grassland songbirds in agricultural systems in Nebraska. Division of Biology, Kansas State University, April 2015.
66. Wolfenbarger, LL, JP McCarty, and JG Jorgensen. Invited workshop presentation. Monitoring population trends of buff-breasted sandpipers during spring migration in the eastern Rainwater Basin, Nebraska, USA, Western Hemisphere Shorebird Group Meeting VI, Wallops Island, Virginia, September 2015.
65. Wolfenbarger, LL. Invited doctoral alumna speaker for Scientific Program at "Celebrating 50 Years." Department of Neurobiology and Behavior, Cornell University, November 2014.

64. Janousek W, PE Klug, JP McCarty, WA Cox, LI Berkeley, and LL Wolfenbarger. Survival and parasitism of Dickcissel (*Spiza americana*) nests on conservation and unmanaged marginal lands in the eastern Great Plains. Paper presented at North American Congress for Conservation Biology, Missoula, MT, July 2014.
63. Wolfenbarger, LL, JP McCarty, and JG Jorgensen. Population trends and stopover ecology of Buff-Breasted Sandpipers and other shorebirds in central Nebraska. Invited symposium presentation at the 2013 V-Western Hemisphere Shorebird Group Meeting, Santa Marta, Colombia, September 2013.
62. Cox, WA, LL Wolfenbarger and JP McCarty. The influence of land use and conservation practices on grassland songbird densities. Paper presented at the 131st Annual Meeting of the American Ornithologists' Union, Chicago, IL. August 2013.
61. Wolfenbarger, LL. Oversight issues: Current status and possible futures. Invited presentation for Workshop on Examining the Oversight Issues of Plant Targeted Genetic Modifications, Humphrey School of Public Policy, University of Minnesota, Saint Paul, MN, June 2013.
60. Wolfenbarger LL. Landscape-level perspectives on understanding ecological impacts of GE organisms. Invited symposium presentation at 2011 Annual Meeting of The Wildlife Society, Kona, HI, November 2011.
59. Wolfenbarger LL Conservation of grassland birds in an agricultural mosaic. Invited seminar at North Central Agricultural Research Lab, USDA Agricultural Research Service, Brookings, SD, October 2010.
58. Wolfenbarger LL. Report on National Research Council study on The Impact of Genetically Engineered Crops on Farm Sustainability in the US. Invited Plenary Speaker, International Consortium on Agricultural Biotechnology Research, Ravello, Italy, June 2010.
57. Wolfenbarger LL. Environmental impacts of genetically engineered crops: an example using herbicide tolerant crops. Department of Forestry and Wildlife Management, Hedmark University College, Evenstad, Norway, February 2009
56. Wolfenbarger LL and JP McCarty. Conservation, birds, agriculture, and ecological forecasting using lessons from fisheries, forestry, and climate change biology. Department of Zoology, University of Cambridge, January 2009
55. Wolfenbarger LL and JP McCarty. Conservation, birds, agriculture, and plans to develop ecological forecasting using lessons from fisheries, forestry, and climate change biology. Invited presentation, Centre for Ecological and Evolutionary Synthesis, University of Oslo, Norway, September 2008.
54. Wolfenbarger LL. Research on effects of genetically engineered crops on wildlife and their natural habitats. Invited presentation at "A Workshop on Genetically Engineered Organisms, Wildlife and Habitats" sponsored by the National Research Council. Irvine, CA, November 2007.
53. Reinartz L.T, CR Allen, LL Wolfenbarger, C Helzer, and JP McCarty. The relationship between plant diversity and herbivory rates in tallgrass prairies. Poster presentation at Midwest Fish and Wildlife Conference. Omaha, Nebraska, December 2006.
52. Jorgensen JG, JP McCarty and LL Wolfenbarger. Buff-breasted Sandpiper migration and stopover in the Rainwater Basin, Nebraska. Invited presentation, Rivers and Wildlife Celebration sponsored by Audubon Nebraska, Audubon's Rowe Sanctuary, and the Nebraska Partnership for All-Bird Conservation. Kearney, Nebraska, March 2006.
51. Wolfenbarger LL. Effects of agriculture on grassland bird communities and reproduction. Invited presentation, Ecology and Evolution Seminar series of the School of Biological Sciences, University of Nebraska–Lincoln, March 2006.

50. Jorgensen JG, JP McCarty, LL Wolfenbarger, M Ealy, and B Ortego, Buff-breasted Sandpiper abundance, distribution, and habitat use during migration in the Rainwater Basin, Nebraska and Texas. Invited presentation at Buff-breasted Sandpiper Symposium at the Shorebird Science meeting in the Western Hemisphere. Boulder, Colorado, February 2006.
49. Wolfenbarger LL. Effects of agriculture on grassland bird communities and reproduction. Invited seminar, Department of Fisheries and Wildlife, Oregon State University, December 2005.
48. Wolfenbarger LL. Environmental impacts and social responses to genetically engineered crops. Invited public presentation for 2005 Food for Thought Lecture series, Biotechnology Outreach Center, Oregon State University, November 2005.
47. Wolfenbarger LL. Ecological impacts of genetically engineered crops: a case study of the Farm Scale Evaluations. Invited Biology 430/530 class lecture. Oregon State University, November 2005.
46. Simmons K, LL Wolfenbarger, JP McCarty. Effects of human disturbance on avian abundance and species composition. Poster presentation contributed to 32nd Natural Areas. Lincoln, Nebraska, September 2005. Received Best Student Poster Award.
45. Rider NL LL Wolfenbarger, JP McCarty. The cumulative effects of using transgenic herbicide-tolerant soybeans on plant and butterfly diversity in marginal field habitat. Contributed oral presentation to 32nd Natural Areas, September 2005. Lincoln, Nebraska.
44. Jorgensen JG, JP McCarty, and LL Wolfenbarger. Buff-breasted Sandpiper (*Tryngites subruficollis*) stopover in the Rainwater Basin. Contributed oral presentation to 32nd Natural Areas Lincoln, Nebraska, September 2005. Received Best Student Paper Award
43. Klug PE, LL Wolfenbarger, JP McCarty. Predator communities in agroecosystems and the impacts on avian nesting. Contributed oral presentation to 32nd Natural Areas Lincoln, Nebraska, September 2005.
42. Jorgensen, J.G., J.P. McCarty, and L.L. Wolfenbarger. Migration, stopover, survival, conservation: the case of the Buff-breasted Sandpiper and the Rainwater Basin. Nebraska Ornithologists' Union Fall Meeting. Alma, Nebraska, September 2005.
41. Jorgensen, J.G., J.P. McCarty, and L.L. Wolfenbarger. A spatial model for Buff-breasted Sandpipers during migration in an agricultural landscape. American Ornithologists' Union 123rd Annual Meeting. Santa Barbara, California, August 2005.
40. Habitat, predation and nesting success in the Dickcissel (*Spiza americana*). Invited departmental seminar, Department of Fisheries and Wildlife, University of Missouri-Columbia, October 2004.
39. Ecological impacts of genetically engineered organisms: science for policy and regulation. Invited departmental seminar, Conservation Biology Program, University of Missouri-Columbia, October 2004.
38. Ecosystem monitoring and trophic levels: incorporating ecological interactions into monitoring. Invited presentation at Symposium on Strategic Monitoring for Ecological Impacts from Crops with Plant Incorporated Protectants, U.S. Environmental Protection Agency, Washington, DC, August 2004.
37. Klug PE, LL Wolfenbarger, and JP McCarty. The effects of grassland patch and landscape characteristics on the nest predator community of grassland bird nests. Contributed oral presentation to the annual meeting of the Ecological Society of America. Portland, OR, August 2004.

36. Berkeley LI, JP McCarty, and LL Wolfenbarger. The importance of the postfledging period to the conservation of Dickcissels. Contributed oral presentation to the annual meeting of the Ecological Society of America. Portland, OR, August 2004.
35. The role of conservation science in assessing non-target effects of transgenic crops on communities and ecosystems. Invited presentation at symposium on Biotechnology and Biodiversity: Understanding the Potential Conservation Risks and Benefits of Genetic Engineering at the 18th Annual Meeting of the Society for Conservation Biology. (co-authored with JP McCarty, PE Klug, and LI Berkeley), July 2004.
34. Klug PE, LL Wolfenbarger, and JP McCarty. The effects of grassland patch and landscape characteristics on the nest predator community of grassland bird nests. Contributed oral presentation to the annual meeting of the Cooper Ornithological Society. LaCrosse, WI, May 2004. Won Best Student Paper Award.
33. Berkeley LI, JP McCarty, and LL Wolfenbarger The importance of the postfledging period to the conservation of Dickcissels. Contributed oral paper to the annual meeting of the Cooper Ornithological Society. LaCrosse, WI, May 2004.
32. Ecological effects of transgenic organisms in a regulatory context: a role for post-commercialization monitoring, Invited speaker, Biological Invasions symposium, Program in Ecology and Evolution, University of California, Davis, April 2004
31. Assessment on natural ecosystems. Invited presentation at Maize and Biodiversity Symposium: The Effects of Transgenic Maize in Mexico, Commission on Environment Cooperation, Oaxaca, Mexico. March 2004
30. Goals and mandates for biotechnology research conducted under experimental use permits, Invited speaker and panelist, Public meeting on Plant-Incorporated Protectant Experimental Use Permit: Process and Compliance, Office of Pesticide Programs, U.S. Environmental Protection Agency, Washington, DC, February 2004
29. Ecological effects of large-scale adoption of transgenic crops. Invited presentation at symposium on Contributions of Field Studies towards Biotechnology Assessments organized by the Office of Research and Development, USEPA (co-authored with J. P. McCarty). February 2004.
28. Engberg S, JP McCarty, and LL Wolfenbarger. Area and Landscape Sensitivity of Grassland Birds to Breeding Habitat Fragmentation in the Missouri River Valley. 64th Midwest Fish and Wildlife Conference. December 2003.
27. Large scale ecological effects of herbicide tolerant crops on avian communities and reproduction. Invited seminar at Department of Ecology, Evolution and Organismal Biology, Ohio State University, October 2003.
26. Ecological effects of herbicide-tolerant crops on avian communities and reproduction in the Midwestern agricultural landscape: a framework for post-commercialization testing and monitoring. Poster presented at the American Ornithologists' Union 123rd annual meeting. August 2003. (co-authored with PE Klug, LI Berkeley and JP McCarty)
25. JP McCarty, MF Ortega and LL Wolfenbarger. Dickcissel nest habitat: selectivity and consequences for reproductive success. Poster presented at the American Ornithologists' Union 123rd annual meeting. August 2003.
24. Ecological effects of herbicide-tolerant crops on avian communities and reproduction in the Midwestern agricultural landscape: a framework for post-commercialization testing and monitoring. Invited poster at Stakeholder Workshop on "Future Directions & Research Priorities for the USDA Biotechnology Risk Assessment Research Grants Program,"

- sponsored by USDA, US EPA, and Information Systems for Biotechnology at Virginia Tech. June 2003. (co-authored with PE Klug, LI Berkeley and JP McCarty)
23. Science policy and ecological monitoring of transgenic crops after commercialization: herbicide tolerant soybeans and avian communities. Department of Fisheries, Wildlife, and Conservation Biology, University of Minnesota. March 2003.
 22. Environmental risks of genetically modified crops: science and society. Invited seminar to Environmental Sciences, Creighton University. February 2003.
 21. An update on genetically modified crops: environmental and human health consequences. Invited presentation at the Global Environmental Change: The Science and Human Health Impacts course for Senior Congressional Staff organized by the Center for Health and the Global Environment, Harvard Medical School. March 2002.
 20. Balancing the risks and benefits of genetically engineered organisms: an integration of science and values. Invited speaker for the Libra Distinguished Lecture Series on Bioethics, University of Maine – Machias. November 2001
 19. The genetic basis of a sexually selected trait in the stalk-eyed fly, *Cyrtodiopsis dalmanni*. Invited seminar at Department of Biology, University of Nebraska at Omaha. September 2001.
 18. The functional significance of red coloration in male Northern Cardinals. Invited seminar at Smithsonian Environmental Research Center. Edgewater, Maryland. June 2001.
 17. Panel discussant at the Workshop on Opportunities in Agriculture. National Research Council, National Academies of Sciences. Washington, DC. June 2001.
 16. Environmental risks and benefits of genetically modified plants. Invited presentation at Global Environmental Change: The Science and Human Health Impacts course for Senior Congressional Staff organized by the Center for Health and the Global Environment, Harvard Medical School. May 2001.
 15. Environmental risks and benefits of genetically modified plants. University of Guelph. Invited presentation at GMOs: Genes Made to Order, annual symposium of the Toxicology Students Association. March 2001
 14. Environmental risks and benefits of genetically modified plants. Invited presentation at Annual Controversial Issues: A Public Forum on Plant Biotechnology and GMOs. University of New Hampshire. March 2001
 13. Environmental risks and benefits of genetically modified plants. Invited presentation at the Science and Public Policy symposium. Annual meeting of the American Physical Society. Seattle, Washington. March 2001
 12. Ecological effects of genetically engineered organisms and the challenges for assessing risks. Invited seminar at the Biology Department, Hood College, Frederick, Maryland. December 2000
 11. The ecological risks of genetically modified organisms and the challenges for risk assessment. Invited presentation at the Workshop on Environmental Contamination, Biotechnology and the Law. National Research Council, National Academies of Sciences. Washington, DC. August 2000.
 10. The ecological risks of genetically modified organisms and the challenges for risk assessment. Invited presentation at the U. S. EPA Regional Risk Assessors' Meeting. Snowmass, CO. June 2000.

9. Quantitative trait loci for the sexually selected trait, eyespan, in a stalk-eyed fly. Contributed paper presented at the annual meeting for the Society for the Study of Evolution. Madison, WI. July 1999
8. X chromosome influences the sexually selected trait eyespan in the stalk-eyed fly, *Cyrtodiopsis dalmanni*. Contributed paper presented at the annual meeting for the Society for the Study of Evolution. Vancouver, BC. July 1998
7. The functional significance of red coloration of male Northern Cardinals. Invited seminar at the Department of Biological Sciences. Auburn University, Auburn, AL. May 1998.
6. The functional significance of red coloration of male Northern Cardinals. Invited seminar at the Department of Zoology, University of Florida, Gainesville, FL. November 1997
5. The functional significance of red coloration of male Northern Cardinals. Invited seminar at Department of Biology, Lewis and Clark College, Portland, OR. March 1997.
4. The functional significance of red coloration of male Northern Cardinals. Invited seminar at Department of Zoological Research, Smithsonian Institution, Washington, DC. March 1997.
3. The functional significance of red coloration of male Northern Cardinals. Dissertation seminar for the Field of Neurobiology and Behavior, Cornell University, Ithaca, NY. July 1996.
2. Do male cardinals obtain benefits from having bright coloration? Contributed paper presented at the 32nd annual meeting of the Animal Behavior Society. Lincoln, NE. July 1995.
1. Why are male cardinals red? Benefits of bright coloration for male Northern Cardinals. Contributed paper presented at the 31st annual meeting of the Animal Behavior Society. Seattle, WA. July 1994.

Professional Societies

American Ornithologists' Union
 Ecological Society of America
 Society for Conservation Biology
 Sigma Xi
 American Association for the Advancement of Science

Professional Service

Associate Editor, *The Auk*, 2014 – present
 Treasurer, Nebraska Academy of Science, 2009-present
 Reviewer for *Behavioral Ecology*, *Behavioral Ecology and Sociobiology*, *Biological Invasions*, *Conservation Biology*, *Ecological Applications*, *Ecology Letters*, *Wilson Bulletin*, *The Condor*, *Journal of Fish Biology*, *Chromosoma*, *Heredity*, *Proceedings for the Royal Society of London Series B*; *Trends in Biotechnology*, The National Research Council
 Grant reviewer for U.S. Environmental Protection Agency, U.S. Department of Agriculture, Biotechnology Risk Assessment Grants, National Science Foundation.
 Grant panelist for U.S. Environmental Protection Agency. U.S. Department of Agriculture.

Media Contact

More than 40 interviews for national and international radio, newspapers and magazines about the National Research Council report on The Impact of Biotechnology on Farm Economics and Sustainability, April – July 2010.

Speaker at the press release of the National Research Council report on The Impact of Biotechnology on Farm Economics and Sustainability, April 2010.

More than 20 interviews with science journalists for stories in *Science*, *Nature*, *National Geographic* and other publications over the past 10 years.

Interview about Fulbright Fellowship for “Consider This,” Aired on Nebraska Public Television, April 2008

Interview for “The DNA Files: Applied Ecology”, Aired on National Public Radio, November 2001.

Interview for “Seeds of Contention”, Aired on the BBC World Service, March 2001

Interview for “Dressed for success: cardinals maximize fiery feathers,” Amherst *Bulletin*, May 18, 2001.

Interview for “Studie om risker tolkas olika,” Dagens Nyheter (Swedish daily newspaper), March 10, 2001.

Interview for “Modified-Crop studies called inconclusive,” New York *Times*, December 14, 2000; Work also featured in The Week in Review, New York Times, Sunday, December 17, 2000 and the “What’s next for biotech crops?: questions,” Science Times section, New York *Times*, December 19, 2000.

Interview for “A male cardinal is a good parent,” Toledo Blade, March 6, 2000.

Additional Training

Wildland Firefighting: Qualified to assist in prescribed burns and wildfire suppression on federal and private lands; successfully completed S-130 Basic Firefighting and S-190 Introduction to Wildland Fire Behavior, March 2002.

GIS: Successfully completed two courses on geographic information systems offered by Environmental Systems Research Institute, Inc. ESRI. Introduction to ArcGIS I and II, February 2001.

OTS: Graduate, Organization for Tropical Studies Field Course in Tropical Biology – Summer 1990. Intensive 8-week field course in Costa Rica.