

John E. Quinn IV
University of Nebraska Lincoln / School of Natural Resources
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EDUCATION

Ph.D. student - Applied Ecology, University of Nebraska-Lincoln **Expected May 2010**
Dissertation Project: Development of Healthy Farm Index to assess ecosystem function on organic and sustainable farms in Nebraska's four agroecoregions. Major Advisors: Dr. Jim Brandle and Dr. Ron Johnson.

M.S. Biology, University of Louisiana at Monroe **2006**
B.S. Environmental Science, Drake University **2003**
B.A. Environmental Policy, Drake University **2003**

RESEARCH INTERESTS

Exploring environmental concerns within biodiversity and sustainability, habitat restoration in working landscapes, agroecology, organic farming, avian ecology and conservation, the role of birding as a medium for environmental awareness and education.

REFEREED PUBLICATIONS

Quinn, J.E., J.R. Brandle, and R.J. Johnson. 2009. Development of a Healthy Farm Index to assess ecological, economic, and social function on organic and sustainable farms in Nebraska's four agroecoregions. Pages 156-170 In Franzluebbbers, A.J., ed. 2009. Farming with Grass: Achieving Sustainable Mixed Agricultural Landscapes. Ankeny, IA: Soil and Water Conservation Society.

Quinn, J.E., K.M. Tolson. 2009. Proximate Mechanisms of Parasite Egg Rejection by the Northern Mockingbird. *The Wilson Journal of Ornithology*. 12(1):180-183.

Quinn, C.Q., **J.E. Quinn**. 2009 In Press. Conservation, Policy, and People: A Case Study of Environmental Politics. Submitted to the National Center for Case Study Teaching in Science, State University of New York at Buffalo, <http://ublib.buffalo.edu/libraries/projects/cases/case.html>.

Quinn, J.E. 2003. "Healthy Forest Initiative": Environmental Policy at the Start of the 21st Century. *Drake Undergraduate Social Science Journal*. <http://www.drake.edu/artsci/PolSci/ssjrn/2003/ssjournal03.html>

RESEARCH GRANTS RECEIVED

Improving Organic Farming Systems and Assessing their Environmental Impacts. (Coauthored with C.A. Shapiro, J. Brandle, C. Francis, R. Wright, S. Knezevic, et al.). **\$1.41 million** from USDA OERI, 2009.

Development of an Urban Food Leadership Coop in Support of a Local Food System (Coauthored with C. Quinn, J. VanWort, K. Kohler-Cole, C. Francis, M. Burbach, and G. Matkin). **\$9945** from US EPA P3 Awards: A National Student Design Competition for Sustainability Focusing on People, Prosperity and the Planet, 2009.

Assessing the health of Nebraska's organic farmers by measuring farmer satisfaction
\$1150 from OCIA Research & Education, 2008.

Optimizing Ecosystem Services in Healthy Organic Agroecosystems
\$432 from Center for Great Plains Studies Research Grant-in-Aid, 2007.

SNR Undergraduate Internship Program (Coauthored with J. Brandle)
\$4125 from UNL School of Natural Resources, 2007-2008.

RESEARCH GRANTS PENDING

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TRAVEL GRANTS

Nebraska Sustainable Agriculture Research and Education Travel Grant	2008
Midwest Organic and Sustainable Education Service Travel Grant	2008
UNL ARD Larrick Graduate Student Travel Grant	2008
Association of Southeastern Biologists Student Travel Award	2006

FELLOWSHIPS

UNL Graduate Studies Fellowship	2009-2010
UNL CASNR Irvin A. and Agnes E. Nelson Fellowship	2009
UNL Graduate Studies Frank and Marie Wheeler Fellowship	2007-2008
UNL CASNR William J. Curtis Endowed Fellowship	2006-2009

TEACHING EXPERIENCE

University of Nebraska-Lincoln

Full course instructor for NRES 211, Introduction to Conservation Biology 2007-2008

Co-Coordinator for McPhee Elementary science outreach and education program 2006-2009
 Winner of Spirit of Service Award and finalist for RSO Officer Award in recognition of
 coordination efforts of SNR GSA science education outreach program

Teaching assistant for NRES 211, Introduction to Conservation Biology 2006-2007

Guest Lectures

NRES 211, Introduction to Conservation Biology 2009

Topic: Conservation of Biodiversity in Working Farmland

NRES 417/817, Agroforestry 2009

Topic: Agroforestry and Biodiversity.

ALEC 810, Environmental Leadership 2008

Topic: Environmental and health benefits of organic agroecology.

University of Louisiana at Monroe

Lab instructor for Biology 111, Humans and the Living World 2006

Lab instructor for Microbiology 215 2005

Guest Lecturer for Biology 486, Management of Game Birds 2005

UNDERGRADUATE STUDENTS TRAINED & ADVISED

Kim Tomczak – Thesis Topic: How Attitudes of Producers toward Windbreaks in Eastern Nebraska Have Changed Since 1983

John Berrou – Honors Project: Agroecology and Food Systems, ([Book Review](#))

Josh Loomis – Avian, vegetation, arthropod survey techniques, GIS

Brent Schmoker – Honors Project: Agroecology

Sarah Bray – Honors project: Slow Food and Biodiversity

Tyler Seiboldt – Thesis Topic: California Wildfires and Their Impact on Biodiversity

CONTRIBUTED PAPERS AND PRESENTATIONS

Quinn, J.E., R.J. Johnson, J.R. Brandle. 2009. Biotic interactions in organic farm systems. Proceedings of the 11th North American Agroforestry Conference of the Association for Temperate Agroforestry. Columbia, MO.

Brandle, J.R., R.J. Johnson, **J.E. Quinn**. 2009. The Role of Agroforestry Practices in a Healthy Farm. Proceedings of the 11th North American Agroforestry Conference of the Association for Temperate Agroforestry. Columbia, MO.

Quinn, J.E., J.R. Brandle, R.J. Johnson. 2009. Monitoring long-term patterns of farmland bird communities in Nebraska. Poster presented at the Midwest Ecology and Evolution Conference. Lincoln, NE.

Johnson, R.J., **J.E. Quinn**, J.R. Brandle, R.F. Baldwin. 2008. An index of farm health reflecting food production, biodiversity, and ecosystem services. Poster presented at National Conference on Science, Policy, and the Environment, Washington D. C. (Abstract). <http://ncseonline.org/Conference/Biodiversity/cms.cfm?id=2714>

Quinn, J.E., J.R. Brandle, R.J. Johnson. 2008. Development of a healthy farm index to measure ecological, economic, and social function on organic and sustainable farms in Nebraska. Invited speaker at SWCS Farming with Grass conference. Oklahoma City, Oklahoma.

Jones, A., **J.E. Quinn**, J.R. Brandle. 2008. Science Enrichment for Elementary Schools: A Graduate Student run Outreach Program. Presented at the Ecological Society of America meeting. Milwaukee, Wisconsin.

Quinn, J.E., J.R. Brandle, R.J. Johnson. 2008. Development of the Healthy Farm Index. Upper Midwest Organic Farming Conference, Organic Research Symposium. La Crosse, Wisconsin. February 21-23 2008. (Abstract).

Quinn, J.E., J.R. Brandle, R.J. Johnson. 2007. Avian Abundance and Diversity in Organic Agricultural Landscapes: An Ecological Indicator for a Healthy Farm Index. Poster presented at the University of Nebraska School of Natural Resources Research Colloquium. Lincoln, Nebraska.

Shapiro, C.A., D. Baltensperger, C. Francis, R. Wright, J. Brandle, S. Knezevic, R. Johnson, E. Sarno, **J. Quinn**, S. Newman. 2007. Improving Organic Farming Systems across Nebraska Agroecoregions. Presented at the ASA-CSSA-SSSA International Annual Meeting, New Orleans, Louisiana.

Quinn J.E., K.M. Tolson. 2006. Mechanisms of Brown-headed Cowbird egg rejection by the Northern Mockingbird and Brown Thrasher. Poster presented at the Midwest Fish and Wildlife Conference, Omaha, Nebraska.

- Quinn J.E.,** K.M Tolson. 2006. Avian response to silviculture practices in the Mississippi Alluvial Valley: A breeding bird inventory of Boeuf Wildlife Management Area. Poster presented at the Association of Southeastern Biologist meeting. Gatlinburg, Tennessee.
- Quinn J.E.,** K.M Tolson. 2006. Mechanisms of Parasite Egg Rejection by the Northern Mockingbird and Brown Thrasher. Paper presented at the Association of Southeastern Biologist meeting Gatlinburg, Tennessee.
- Quinn J.E.** 2006. Mechanisms of parasite egg rejection in two members of the family Mimidae. Poster presented at the University of Louisiana Student Research Symposium, Monroe, Louisiana. 2nd Place in Poster Competition
- Quinn J.E.,** K.M Tolson. 2006. Avian response to silviculture practices in the Mississippi Alluvial Valley: A breeding bird inventory of Boeuf Wildlife Management Area. Paper presented at the University of Louisiana Student Research Symposium, Monroe, Louisiana. 2nd Place in Paper Competition
- Quinn J.E.** 2006. Mechanisms of Parasite Egg Mechanisms of parasite egg rejection in two members of the family Mimidae. Poster presented at the Louisiana Academy of Sciences, Lafayette, Louisiana. Nominated for Best Student Poster
- Quinn J.E.,** K.M Tolson. 2005. Avian response to silviculture practices in the Mississippi Alluvial Valley breeding bird inventory of Boeuf Wildlife Management Area. Poster presented at the Louisiana Association of Professional Biologists. Lafayette, Louisiana.

INVITED SEMINARS

- Quinn, J.E, 2009. Topic: The Healthy Farm Index. UNL Extension & the Nebraska Sustainable Agriculture Society Rural Advantage Conference, Grand Island, NE.
- Quinn, J.E. 2009. Topic Biodiversity in Organic Farm Systems and the Healthy Farm Index. Izaak Walton League Annual Meeting. Lincoln, NE.
- Quinn, J.E. 2008. Topic: Developing the Healthy Farm Index. Range and Forage Science Lunch Seminar. University of Nebraska-Lincoln. Lincoln, NE.
- Sarno, L., J. Quinn., 2008. Topic: Reconnecting With and Changing Our Rural Landscapes through Our Food Purchases," Green Sanctuary Committee of First Unitarian Church interfaith forums on earth stewardship and community. Omaha, NE.
- Quinn, J. 2008. Topic: The Healthy Farm Index. Nebraska Organic Crop Improvement Association Winter Meeting. Lincoln, NE.
- Quinn, J., L. Sarno. 2008. Topic: Conservation Practices in Organic Production. UNL Extension & the Nebraska Sustainable Agriculture Society Rural Advantage Conference, Omaha, NE.
- Brandle, J., J. Quinn. 2007. Topic: Organic Farming. Osher Lifelong Learning Institute, Lincoln, NE.
- Quinn, J. 2007. Topic: Brood Parasitism 101. Wachiska Audubon Society, Lincoln NE.

Quinn, J. 2005. Topic: The Impacts of Brood Parasitism. Northeast Louisiana Bird Club, Monroe, LA.

PROFESSIONAL SERVICE AND ACTIVITIES

Instructor. University of Nebraska Lincoln, School of Natural Resources 2007- 2008
NRES 211 Introduction to Conservation Biology. 3 semesters

Organic Certification Committee. OCIA Nebraska Chapter #1 2007
Review committee for 2007 organic farm certification process.

Teaching Assistant. UNL, School of Natural Resources 2006-2007
NRES 211 Introduction to Conservation Biology.

Graduate Research Assistant. University of Nebraska Lincoln 2006-present
Integrated Organic Program exploring the relationship between biodiversity, ecosystem services, and production on organic farms in Nebraska. Primary duties included leading the development of Healthy Farm Index, collecting ecological and socio-economic data, grant writing, preparing reports and publications, maintaining Organic Working Group website (<http://organic.unl.edu>)

Graduate Research Assistant. University of Louisiana at Monroe 2004-2006
State Wildlife Grant with the University of Louisiana at Monroe monitoring the avian biodiversity of Boeuf Wildlife Management Area. Boeuf WMA is a 50,000-acre tract of bottomland hardwood in Northeast Louisiana. Primary duties included measuring the avian species composition on Boeuf WMA to provide baseline data of species richness and abundance and exploring how forest dynamics influence local populations.

- Avian point counts
- Herpetological surveys
- Data collection and analysis
- Southeast forest vegetation surveys

Avian Research Assistant. Wildlife Conservation Society, California 2003
Forest Fire Surrogacy Research Project. A five-year national research project investigating the effects of fire and “fire surrogates” on forest ecosystem functioning in ponderosa pine forests.

- Nest searching
- Avian point counts
- Foraging behavior monitoring
- Data collection and analysis
- Western forest vegetation survey

Project Coordinator. Polk County Conservation Board and Drake University. Iowa 2003
Merging science, policy, and education; development of an interpretive canoe trail at Chichaqua Bottoms Greenbelt Nature Preserve. Collaboration of PCCB and students of Environmental Science and Policy Senior Seminar.

- Integration of ArcView GIS and GPS mapping data
- Identification of local flora and fauna
- Time management and delegation of authority
- Development of land ethic and application of land stewardship

Herbarium Collection Assistant. Drake University, Des Moines, Iowa 2002 - 2003

Worked to identify and curate flora of Iowa and the Midwest for the herbarium of Drake University's Biodiversity Center.

Avian Behavior Research Assistant. University of Missouri, Eldorado Springs, Missouri 2002
Habitat Use, Movement, and Survival of Fledging Dickcissel and Eastern Meadowlark.
Grassland bird research in Wah'Kon-Tah Prairie and Taberville Prairie in southwestern Missouri.

- Radio telemetry
- Post disturbance behavior monitoring
- Nest searching
- Grassland vegetation surveys
- Bird banding

AWARDS

UNL SNR Meritorious Graduate Student Award	2009
UNL SNR Graduate Student Association Exemplary Service Award	2009
UNL Recognized Student Organization Officer Award finalist	2008
Cooper Ornithological Society Student Membership Award	2007-2009
Nebraska Statewide Arboretum Graduate Student Research Award	2007
Runner-up in poster and paper session of the ULM Student Research Symposium	2006
Nominated for best student poster at Louisiana Academy of Sciences	2006
American Ornithologists' Union Student Membership Award	2005-2007
University Research Assistantship, University of Louisiana at Monroe	2004-2006
Metro Waste Authority Business/University Recycling Award	2003
Drake University Track and Field Most Improved	2000
Drake University Presidential Scholarship	1999-2003

SERVICE

Stewardship Index Biodiversity Metrics Review Committee	2009
UNL SNR Ecology Seminar Co-Organizer	2009
UNL GSA Library Advisory Board	2009
UNL School of Natural Resources Graduate Committee	2008-2009
Abstract Review Committee, Midwest Ecology and Evolution Conference	2008-2009
UNL Campus-wide Teaching Assistant Planning Committee	2008
Assisted in planning and implementation of day-long program	
UNL SNR Sustainability Committee	2008-2009
UNL Organic Working Group.	2007-2008
Built and maintained website (http://organic.unl.edu)	
Co-Chair, UNL SNR Graduate Student Association	2007-2008
Outreach Coordinator, UNL SNR Graduate Student Association	2007-2008
USGS Breeding Bird Survey, Northeast Louisiana	2006
Girl Scouts Silver Waters Council, Outdoor education volunteer, webmaster	2005-2006
Black Bayou National Wildlife Refuge International Migratory Bird Day	2005-2006

Audubon Christmas Bird Count, Louisiana, Nebraska, Iowa	2004-2007
The Raptor Center at the University of Minnesota Education volunteer	2003-2004

PROFESSIONAL DEVELOPMENT

Program R web seminar - USGS	2008-2009
UNL Graduate Studies Teaching Documentation Program	2008
“Getting Started as a Successful Grantwriter and Academician” - UNL	2008
“Modeling Patterns and Dynamics of Species Occurrence” - USGS Webinar	2007
Dreamweaver Training	2007
UNL Teaching Assistant Workshop	2007, 2008
Certified - Project Wet and Project Learning Tree Training	2006

CURRENT WEBSITES MANAGED

UNL Organic Working Group – <http://organic.unl.edu>
UNL SNR Graduate Student Science Outreach – <http://snr.unl.edu/snrgsa/outreach.asp>

PROFESSIONAL SOCIETIES

Society for Conservation Biology, American Ornithological Union, Cooper Ornithological Society, Sigma Xi.