

Colleen M. McLinn
Curriculum Vitae
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Current Position: Content Information Specialist
Macaulay Library of Natural Sounds
Cornell Laboratory of Ornithology
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Ithaca, NY 14850

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Education

Ph.D. 1999-2006
University of Minnesota, St. Paul, MN
Major: Ecology, Evolution, and Behavior
Dissertation: *The economic basis of animal
information use and communication*
Advisor: David W. Stephens

B.S. 1995-1999
Eckerd College, St. Petersburg, FL
Major: Biology (with High Honors)
Minor: Anthropology
Senior Research: *The ecology of black-hooded
parakeets*
Advisors: Peter Meylan, Elizabeth Forsys

Research and Career Interests

The Macaulay Library has the world's largest collection of animal sounds and associated video recordings. I serve as a liaison to the K-12 community by developing new curricula and using rich media to enrich existing teaching. In particular, I focus on using animal behavior to teach STEM disciplines such as physics. For example, a current project uses sound production in birds to teach physics concepts about waves. This allows me to capitalize on my interdisciplinary graduate work in animal behavior, and also to serve an audience I grew to love working with as an NSF GK-12 Fellow.

Publications

1. **McLinn, C.M.**, and Stephens, D.W. 2006. “What makes information valuable: signal reliability and environmental uncertainty.” *Animal Behaviour* 71: 1119-1129.
2. Stephens, D.W., **McLinn, C.M.**, and Stevens, J.R. 2006. “Effects of temporal clumping and payoff accumulation on impulsiveness and cooperation.” *Behavioural Processes* 71: 29-40.
3. Stephens, D.W., and **McLinn, C.M.** 2003. “Choice and context: testing a simple short-term choice rule.” *Animal Behaviour* 66: 59-70.
4. Stephens, D.W., **McLinn, C.M.**, and Stevens, J.R. 2002. “Discounting and reciprocity in an Iterated Prisoner’s Dilemma.” *Science* 298: 2216-2218.

Presentations

- McLinn, C.M.**, and Stephens, D.W. “What makes information valuable: prior certainty, reliability, and cost.” Animal Behavior Society, Snowbird, Utah (August 2005).
- Dunlap, A.S., **McLinn, C.M.**, MacCormick, H.A., Scott, M.E., and Kerr, B. “Why some memories do not last a lifetime: a dynamic programming approach to optimal long-term recall in changing environments.” Animal Behavior Society, Snowbird, Utah (Presented by Aimee Dunlap—August 2005).
- Stephens, D.W., Scott, M.E., Dunlap, A.S., and **McLinn, C.M.** “Exploring the connection between impulsivity and patch exploitation: two experiments.” Animal Behavior Society, Snowbird, Utah (Presented by David Stephens—August 2005).
- McLinn, C.M.**, and Stephens, D.W. “The value of information: an experimental study using Blue jays.” International Society for Behavioral Ecology, Jyväskylä, Finland (Poster—July 2004).
- McLinn, C.M.**, and Stephens, D.W. “Making use of information: the effects of signal reliability and receiver prior experience.” International Society for Behavioral Ecology, Montreal, Canada (Poster—July 2002).
- Stephens, D.W., **McLinn, C.M.**, and Stevens, J.R. “Discounting and reciprocity determine cooperativeness in an Iterated Prisoner’s Dilemma.” International Society for Behavioral Ecology, Montreal, Canada (Presented by David Stephens—July 2002).
- McLinn, C.M.** “Use of the astragalus bone for species and sex identification in ancient goat populations: implications for the study of animal domestication.” National Museum of Natural History Research Training Program, Washington, DC (July 1998).
- McLinn, C.M.**, Szalay, S.J., and Perry, J.A. “Species and size effects on the growth of macrophyte patches.” University of Minnesota Summer Undergraduate Research Program, Saint Paul, Minnesota (Poster—August 1997).

Grants and Fellowships

Ecology Department Summer Research Fellowships, University of Minnesota: 2005 (\$600), 2001 (\$3800) and 2000 (\$2000).
Frank McKinney Fellowship in Animal Behavior, University of Minnesota: 2004 (\$1500)
Animal Behavior Society Student Research Grant: 2004 (\$1000)
Ecology Department Professional Meeting Fellowship, University of Minnesota: 2004 (\$250).
Dayton and Wilkie Graduate Research Fellowships, Bell Museum of Natural History, University of Minnesota: 2004 (\$850) and 2002 (\$500).
Florence Rothman Graduate Research Fellowship, University of Minnesota: 2003 (\$700).

Honors and Awards

Charles and Dorothy Andrew Bird Award, Sigma Xi, University of Minnesota Chapter, 2004 (\$1000)
Honorable Mention in National Science Foundation Graduate Research Fellowship Competition, 2000 and 1999.
Special Honors Scholarship, Eckerd College, 1995-1999 (\$17,500/year).
Honors Program, Eckerd College, 1995-1999.

Press Attention

Amie, J. "Blue jay studies show how animals make decisions." 2005. Bell Museum of Natural History *Imprint* 22(1): 4-5.

Teaching Experience

NSF GK-12 Graduate Fellow. *Environmental Biology in K12 Classrooms*. Bell Museum of Natural History, University of Minnesota, and Tuttle/Pratt Community Schools, Minneapolis Public Schools (July 2005-June 2006). Supervisors: Karen Oberhauser, Susan Weller and Scott Lanyon.

Teaching Assistant, *Animal Behavior, BIOL 3411*. Department of Biology, University of Minnesota (2005, 2003 and 2001). Supervisor: David Stephens.

Teaching Assistant, *General Biology, BIOL 1001*. Department of Biology, University of Minnesota (2003). Supervisor: Bruce Fall.

Preparing Future Faculty Student Teacher, *Animal Behavior, BIOL 330*.
Department of Biology, University of St. Thomas (2003). Supervisor:
Susan Evarts.

Teaching Assistant, *Evolution of Social Behavior, EEB 5321*. Department of
Ecology, Evolution, and Behavior, University of Minnesota (2001).
Supervisor: Anne Pusey.

Teaching Assistant, *Evolution, BIOL 3409/5409*. Department of Biology,
University of Minnesota (2000). Supervisors: Ruth Shaw and Scott
Lanyon.

Teaching Assistant, *General Zoology, BIOL 2012*. Department of Biology,
University of Minnesota (1999 and 2000). Supervisors: Franklin Barnwell
and William Schmid.

Professional Experience

Discovery Day Camp Leader. *Creatures of the Night and Mammals* (Grades 1-2).
Bell Museum of Natural History, University of Minnesota (2000).
Supervisor: Chris Goodwin.

Copy Editor. *Emergency Medicine*. Emedicine online medical textbook, St.
Petersburg, Florida office (1998-1999). Supervisor: Scott Plantz, M.D.

Writing Consultant. *Eckerd College Writing Center*. Foundations Department,
Eckerd College (1996-1999). Supervisors: George Meese and William
Kelly.

Computing Skills

Programming experience in PERL, C, and MedState Notation
Webpage design experience using Dreamweaver, WebCT, and Adobe Photoshop
Systematics experience using PAUP and MacClade
GIS experience using ArcView and ArcInfo
Proficient in Microsoft Office suite, some experience with UNIX

Professional Development

Workshop Leader, *New TA Orientation*. Center for Teaching and Learning
Services, University of Minnesota (August 2004).

Participant, *Preparing Future Faculty: Teaching in Higher Education and
Practicum for Future Faculty*. Center for Teaching and Learning Services,
University of Minnesota (2002-2003).

- Participant, *Getting Started as a Successful Grant Writer and Academician*. University of Minnesota (April 2002).
- Participant, *Science Writing for Popular Audiences*. Department of Rhetoric, University of Minnesota (September-December 2001).
- Participant, *TA Web Certification Program*, Digital Media Center, Academic and Distributed Computing Services, Center for Teaching and Learning Services, University of Minnesota (July-August 2001).
- Participant, *Wildlife Handling and Immobilization*. Department of Fisheries and Wildlife, University of Minnesota (October 2000).
- Participant, *Classroom Presentation Skills and Classroom Management*. Center for Teaching and Learning Services, University of Minnesota (September 1999).

Institutional Service

- Behavior Search Committee, Department of Ecology, Evolution, and Behavior, University of Minnesota (2004-2005).
- TA Liaison Advisory Committee. Liaison between Ecology department and Center for Teaching and Learning Services, University of Minnesota. (1999, 2000, 2002-2005).
- Biological Basis of Behavior Group Program Committee, University of Minnesota (2002-2003).
- Biological Basis of Behavior Group Webmaster and List-Serve Administrator, University of Minnesota (2002-2003).
- Graduate Student President, Department of Ecology, Evolution, and Behavior, University of Minnesota (2000-2001).
- Audiovisual Committee, Department of Ecology, Evolution, and Behavior Seminar Series, University of Minnesota (1999-2000).
- Day Student Representative and Environmental Affairs Committee, Eckerd College Legislative Council (1998).

Professional Memberships

- Animal Behavior Society
 American Ornithologists' Union
 International Society for Behavioral Ecology
 Sigma Xi, Cornell University Chapter

Ad-hoc Referee

Behaviour

References

Jack Bradbury
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David W. Stephens - *Ph.D. advisor*
Professor, Ecology, Evolution, and Behavior
University of Minnesota
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Email: dws@umn.edu

Other references available upon request.