

CURRICULUM VITAE

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Education

- 2007 Ph.D., Indiana University, Bloomington, IN,
Evolution, Ecology, and Behavior (Ellen Ketterson, advisor)
- 2001 B.A. (*summa cum laude*), Vanderbilt University, Nashville, TN,
Biology (Honors) (David McCauley, advisor)

Appointments

- 2007- Postdoctoral Researcher, University of Virginia, Charlottesville, VA
(Edmund Brodie III, advisor)

Research Grants

- 2010-14 NSF Grant, "The evolution of sexual dimorphism in island populations of *Anolis* lizards" (co-PI with Edmund Brodie III, DEB 0950073, \$850,523, Pending)
- 2009 University of Virginia CLU Grant (\$949)
- 2005-07 NSF Doctoral Dissertation Improvement Grant (co-PI with Ellen Ketterson, DEB 0508692, \$11,783)
- 2005 Indiana Univ. Graduate School Grant in Aid (\$600)
Wilson Ornithological Society Louis Agassiz Fuertes Award (\$2,500)
- 2004 American Ornithologists Union Research Award (\$1,800)
Mountain Lake Biological Station Research Fellowship (\$1,000)
Sigma Xi Grant in Aid of Research (\$500)
- 2003 Sigma Xi Grant in Aid of Research (\$750)

Fellowships and Awards

- 2005-07 NIH Trainee, Research Training Grant: "Common Themes in Reproductive Diversity"
- 2005 Center for the Integrative Study of Animal Behavior (CISAB) Fellowship
- 2005 Indiana Univ. College of Arts & Sciences McCormick Science Grant

2001-05	NSF Graduate Research Fellowship
2001	Founder's Medal for First Honors, Vanderbilt Univ.
2000	Research Experience for Undergraduates, Mountain Lake Biol. Station

Publications

18. **McGlothlin, J. W.**, A. J. Moore, J. B. Wolf, and E. D. Brodie III. Submitted. Interacting phenotypes and the evolutionary process. III. Social evolution. *Evolution*.
17. **McGlothlin, J. W.**, D. J. Whittaker, S. E. Schrock, N. M. Gerlach, J. M. Jawor, E. A. Snajdr, and E. D. Ketterson. In revision. Natural selection on testosterone production in a wild songbird population. *American Naturalist*.
16. **McGlothlin, J. W.** In press. Combining selective episodes to estimate lifetime nonlinear selection. *Evolution*.
15. Ketterson, E. D., J. W. Atwell, and **J. W. McGlothlin**. 2009. Phenotypic integration and independence: hormones, performance, and response to environmental change. *Integrative and Comparative Biology* 49: 365-379.
14. Galloway, L. F., J. R. Etterson, and **J. W. McGlothlin**. 2009. The contribution of direct and maternal genetic effects to life-history evolution. *New Phytologist* 183: 826-838.
13. **McGlothlin, J. W.** and E. D. Brodie III. 2009. How to measure indirect genetic effects: The congruence of trait-based and variance-partitioning approaches. *Evolution* 63: 1785-1795.
12. **McGlothlin, J. W.** and E. D. Ketterson. 2008. Hormone-mediated suites as adaptations and evolutionary constraints. *Philosophical Transactions of the Royal Society of London B* 363: 1611-1620.
11. **McGlothlin, J. W.**, J. M. Jawor, T. J. Greives, J. M. Casto, J. L. Phillips*, and E. D. Ketterson. 2008. Hormones and honest signals: males with larger ornaments elevate testosterone more when challenged. *Journal of Evolutionary Biology* 21: 39-48.
10. **McGlothlin, J. W.**, J. M. Jawor, and E. D. Ketterson. 2007. Natural variation in a testosterone-mediated trade-off between mating effort and parental effort. *American Naturalist* 170: 864-875.
9. Jawor, J. M., **J. W. McGlothlin**, J. M. Casto, T. J. Greives, E. A. Snajdr, G. E. Bentley, and E. D. Ketterson. 2007. Testosterone response to GnRH in a female songbird varies with stage of reproduction: implications for adult behaviour and maternal effects. *Functional Ecology* 21: 767-775.

8. **McGlothlin, J. W.**, D. L. Duffy, J. L. Henry-Freeman*, and E. D. Ketterson. 2007. Diet quality affects feather growth rate and an attractive white plumage pattern in dark-eyed juncos (*Junco hyemalis*). *Behavioral Ecology and Sociobiology* 61: 1391-1399.
7. Brodie, E. D., III, and **J. W. McGlothlin**. 2007. A cautionary tale of two matrices: the duality of multivariate abstraction. *Journal of Evolutionary Biology* 20: 9-14.
6. Jawor, J. M., **J. W. McGlothlin**, J. M. Casto, T. J. Greives, E. A. Snajdr, G. E. Bentley, and E. D. Ketterson. 2006. Seasonal and individual variation in response to GnRH challenge in male dark-eyed juncos (*Junco hyemalis*). *General and Comparative Endocrinology* 149: 182-189.
5. Greives, T. J., **J. W. McGlothlin**, J. M. Jawor, G. E. Demas, and E. D. Ketterson. 2006. Testosterone and immune function inversely co-vary in a wild population of breeding Dark-eyed Juncos (*Junco hyemalis*). *Functional Ecology* 20: 812-818.
4. **McGlothlin, J. W.**, P. G. Parker, V. Nolan Jr., and E. D. Ketterson. 2005. Correlational selection leads to genetic integration of body size and an attractive plumage trait in dark-eyed juncos. *Evolution* 59: 658-671.
3. **McGlothlin, J. W.**, D. L. H. Neudorf, V. Nolan Jr., and E. D. Ketterson. 2004. Elevated testosterone reduces choosiness in female dark-eyed juncos (*Junco hyemalis*): evidence for a hormonal constraint on sexual selection? *Proceedings of the Royal Society of London B* 271:1377-1384.
2. Brooks, M. A., B. C. Harrigan, K. M. Johnson, D. E. Lowe, J. P. Lowery, **J. W. McGlothlin**, M. M. Sasso, S. A. Smith, and D. A. Cristol. 2001. Revisit schedule does not affect results of point counts. *Journal of Field Ornithology* 72:404-411.
1. McCauley, D. E., C. M. Richards, S. N. Emery, R. A. Smith, and **J. W. McGlothlin**. 2001. The interaction of genetic and demographic processes in plant metapopulations: A case study of *Silene alba* in J. Silvertown and J. Antonovics, eds. *Integrating Ecology and Evolution in a Spatial Context*. Blackwell Science, Oxford.

* Undergraduate co-author

Manuscripts in Preparation

McGlothlin, J. W., A. J. Moore, and E. D. Brodie III. A synthesis of game theory and quantitative genetic models of social evolution.

McGlothlin, J. W., A. J. Moore, and E. D. Brodie III. Interacting phenotypes and the coevolutionary process.

McGlothlin, J. W., T. R. Cassidy*, M. Adler, and E. D. Brodie III. X-ray imaging does not affect growth rate in juvenile anoles.

* Undergraduate co-author

Press Coverage

- 2009 National Wildlife, "The high price of being a hunk."
2007 Indiana University "Testosterone turns male juncos into blustery hunks—and bad dads" (Reprinted elsewhere)
ScienCentral Science Sensei, "Testosterone junkie birds"
(<http://tinyurl.com/y8sgdux>)
2006 Birding "News and Notes"

Conference Presentations

Talks

- 2009 *Anolis* Symposium, Cambridge, MA
2008 Evolution, Minneapolis, MN
2006 Evolution, Stony Brook, NY
NSERC/NSF/ESF Workshop, Vancouver, BC
2005 Animal Behavior Society, Snowbird, UT
Society for Integrative and Comparative Biology, San Diego, CA
2004 ESF/NSF/NSERC Workshop, Wageningen, Netherlands
2002 Animal Behavior Society, Bloomington, IN

Posters

- 2006 Animal Behavior Society, Snowbird, UT
2005 NSF/ESF/NSERC Workshop, Seattle, WA
2002 Evolution, Urbana, IL

Invited Seminars

- 2009 Animal Behavior Society, Pirenópolis, Brazil, "Interacting Phenotypes" Symposium: "How and why to measure indirect genetic effects and social selection"
2006 University of Chicago, Chicago, IL, "Sexual selection and phenotypic integration in a songbird"

Animal Behavior Society, Snowbird, UT, "Behavioral Syndromes"
Symposium: "Sets, suites, syndromes, and selection: a role for
hormones?"

2005 Mountain Lake Biological Station, Pembroke, VA, "Correlational sexual
selection and the evolution of mating phenotypes"

Professional Society Affiliations

American Society of Naturalists
Animal Behavior Society
Society for the Study of Evolution

Teaching Experience

Dept. of Biology, Indiana University, Associate Instructor

2003 BIOL L111, Introductory Biology (discussion)

2002 BIOL L376, Biology of Birds (lab)

Dept. of Biological Sciences, Vanderbilt University, Teaching Assistant

2001 BIOL 119, General Zoology (lab)

2000 BIOL 100, Introductory Biology (lab)

BSCI 110a, Introduction to Biological Sciences (lab)

Undergraduate Mentoring

Dept. of Biology, University of Virginia

2009-10 Eleanor Giles
Jeffrey Wright
Maria-Angelica Zamora-Duran
Helen Vasaly*
Monika Henn
Megan Kobiela
Maridel Frederickson

2009 Jessica Lawler
Elizabeth Zipperle

2008-09 Casey Furr*
Brian Duggar

2008 Bryan Hendrick

2007-09 Tyler Cassidy

2007-08 Margo Adler (currently PhD student, Univ. of New South Wales)

Dept. of Biology, Indiana University

2006-07 Elizabeth Schultz (currently PhD student, Univ. of California Davis)

2002 Jessica Henry*

Mountain Lake Biological Station, University of Virginia

2005 Jennifer Phillips* (currently PhD student, Univ. of California Davis)

2003 Jacqueline Gaudio* (currently MS Student, Univ. of Hawaii, Hilo)

*NSF Research Experience for Undergraduates

Professional Service

2009- Associate Member, Faculty of 1000 Biology

2005-06 CISAB Steering Committee, Indiana Univ.

Biology Faculty Search Committee, Indiana Univ.

Referee for Professional Publications

Journals

American Naturalist (7), Animal Behaviour (1), Auk (1), Behavioral Ecology (2), Behavioral Ecology and Sociobiology (4), Behaviour (1), Current Biology (1), Ethology (2), Evolution (14), Functional Ecology (1), Heredity (1), Hormones and Behavior (2), Journal of Evolutionary Biology (2), Naturwissenschaften (1), Proceedings of the Royal Society B (6)

Book

Westneat & Fox, *Evolutionary Behavioral Ecology* (1 chapter)