AMY L. SKIBIEL, Ph.D.

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EDUCATION

- **Ph.D. in Biological Sciences,** August 2012, Auburn University, Auburn, AL. DISSERTATION: *The evolution of milk composition and lactation strategy of the Columbian ground squirrel, Urocitellus columbianus*
- M.S. in Biological Sciences, May 2007, Auburn University, Auburn, AL. THESIS: Maternal effects in Columbian ground squirrels
- B.S. in Biology, May 2003, Juniata College, Huntingdon, PA., cum laude

RESEARCH AND PROFESSIONAL EXPERIENCE

• 2012-present	Postdoctoral research and teaching fellow, Harvard University
• 2004-2012	Teaching assistant, Auburn University
• Summer 2007	Field technician, Environmental Solutions and Innovations, Inc.
• 2002-2003	Undergraduate independent research, Juniata College
• Summer 2002	Undergraduate research scientist, Research Experience for Undergraduates (REU),
	Pepperdine University
• 2002	Teaching assistant, Juniata College

PUBLICATIONS

Peer-reviewed publications:

- **Skibiel, A. L.**, J. R. Speakman, and W. R. Hood. In press. *Testing the prediction of energy allocation decisions in the evolution of life history tradeoffs*. Functional Ecology.
- **Skibiel, A. L.**, L. M. Downing, T. J. Orr, and W. R. Hood. In press. *The evolution of the nutrient composition of mammalian milks*. Journal of Animal Ecology.
- **Skibiel, A. L.** and W. R. Hood. 2013. *Milk composition in a hibernating rodent, the Columbian ground squirrel, Urocitellus columbianus*. Journal of Mammalogy 94(1): 146-154.
- T. J. Karels, F. S. Dobson, H. S. Trevino, **A. L. Skibiel**. 2009. *Testing causal structure in the biogeography of avian extinctions on oceanic islands*. Journal of Biogeography 36: 1614-1617.
- **Skibiel, A. L.**, F. S. Dobson, J. O. Murie. 2009. *Maternal influences on reproduction in two populations of Columbian ground squirrels*. Ecological Monographs 79(2): 325-341.
- T. J. Karels, F. S. Dobson, H. S. Trevino, **A. L. Skibiel**. 2008. *The biogeography of avian extinctions on oceanic islands*. Journal of Biogeography 35: 1106-1111.
- Trevino, H. S., **A. L. Skibiel**, T. J. Karels, F. S. Dobson. 2008. *Importance of causal analysis of threats to oceanic avifaunas: Reply to Blackburn et al.* Conservation Biology 22(2): 495-497.
- Trevino, H. S., **A. L. Skibiel**, T. J. Karels, F. S. Dobson. 2007. *Threats to avifauna on oceanic islands*. Conservation Biology 21(1): 125-132.

- **Skibiel, A. L.**, H. S. Trevino. 2007. *Comparison of several types of enrichment for captive felids*. Zoo Biology 26: 371-381.
- Buonaccorsi, V. and **A. Skibiel**. 2005. A 'striking' demonstration of the Poisson distribution. Teaching Statistics 27(1): 8-10.

Published abstracts (not peer-reviewed):

- **Skibiel, A.L.**, Speakman, J., Hood, W.R. 2013. The costs of current reproduction are not traded against maternal survival or subsequent reproductive performance in the Columbian ground squirrel. Integrative and Comparative Biology.
- **Skibiel, A. L.**, Hood, W. R. 2012. *Milk matters: offspring survival in Columbian ground squirrels is affected by nutrient composition of milk*. Proceedings of the Comparative Nutrition Society.
- **Skibiel, A. L.**, Downing, L.M., Orr, T. J., Hood, W. R. 2012. *The evolution of the nutrient composition of mammalian milks*. Proceedings of the Comparative Nutrition Society.
- **Skibiel, A. L.**, Hood, W. R. 2012. *Building better babies: impact of individual variation in milk composition on differential reproductive performance of Columbian ground squirrels*. Integrative and Comparative Biology.
- Ramirez, M., **Skibiel, A.**, Hood, W. 2012. *Lactating Columbian ground squirrels increase nutrient absorption without altering digesta retention*. Integrative and Comparative Biology.
- **Skibiel, A. L.**, Hood, W. R. 2011. *Temporal and inter-individual variation in milk composition in a free-ranging, hibernating rodent*. Integrative and Comparative Biology.
- **Skibiel, A. L.** and W. R. Hood. 2010. *Temporal and inter-individual variation in milk composition in a free-ranging, hibernating rodent*. Proceedings of the Comparative Nutrition Society.
- **Skibiel, A. L.**, Kats, L. B., Vandergon, T. L. 2003. *Microsatellite allele composition differs significantly between two populations of the California newt, Taricha torosa, in the Santa Monica Mountains*. Integrative and Comparative Biology.

SEMINARS AND PRESENTATIONS

Invited seminars:

• Maternal effects and lactation effort in the Columbian ground squirrel. Pepperdine University, Malibu, CA, February 5, 2013.

Presentations (*presenter):

- **Skibiel, A.L.**, Speakman, J., Hood, W.R.* *The costs of current reproduction are not traded against maternal survival or subsequent reproductive performance in the Columbian ground squirrel.* Oral presentation, Society for Integrative and Comparative Biology annual meeting, San Fransisco, CA, January 3-7, 2013.
- Skibiel, A. L., Hood, W. R.* *Milk matters: offspring survival in Columbian ground squirrels is affected by nutrient composition of milk*. Oral presentation, Comparative Nutrition Society symposium, Pacific Grove, CA, July 18-23.
- Skibiel, A. L., Downing, L.M., Orr, T. J., Hood, W. R.* 2012. *The evolution of the nutrient composition of mammalian milks*. Poster presentation, Comparative Nutrition Society symposium Pacific Grove, CA, July 18-23.
- **Skibiel, A. L.***, Hood, W. R. *Building better babies: impact of individual variation in milk composition on differential reproductive performance of Columbian ground squirrels*. Oral presentation, Society for Integrative and Comparative Biology annual meeting, Charleston, SC, January 3-7, 2012.

- Ramirez, M.*, **Skibiel, A.**, Hood, W. *Lactating Columbian ground squirrels increase nutrient absorption without altering digesta retention*. Poster presentation, Society for Integrative and Comparative Biology annual meeting, Charleston, SC, January 3-7, 2012.
- Skibiel, A. L.*, Hood, W. R. Building better babies: composition of mother's milk influences survival of juvenile Columbian ground squirrels. Oral presentation, Graduate Student Council Research Symposium, Auburn, AL, April 2, 2011.
- Skibiel, A. L.*, Hood, W. R. Building better babies: composition of mother's milk influences survival of juvenile Columbian ground squirrels. Oral presentation, Southeastern Ecology and Evolution Conference, Auburn, AL, March 25-27, 2011.
- Skibiel, A. L.*, Hood, W. R. Building better babies: composition of mother's milk influences survival of juvenile Columbian ground squirrels. Oral presentation, Graduate Student Council Research Forum, Auburn, AL, March 1-3, 2011.
- **Skibiel, A. L.***, Hood, W. R. *Temporal and inter-individual variation in milk composition in a free-ranging, hibernating rodent*. Poster presentation, Society for Integrative and Comparative Biology annual meeting, Salt Lake City, UT, January 3-7, 2011.
- **Skibiel, A. L.***, Hood, W. R. *Temporal and inter-individual variation in milk composition in a free-ranging, hibernating rodent*. Poster presentation, Comparative Nutrition Society symposium, Tucson, AZ, August 6-10, 2010.
- Skibiel, A. L.*, Dobson, F. S., Murie, J. O. *Maternal influences on reproduction in two populations of Columbian ground squirrels*. Poster presentation, International Behavioral Ecology Congress, Ithaca, NY, August 9-15, 2008.
- Skibiel, A. L.*, Dobson, F. S., Murie, J. O. *Maternal influences on reproduction in Columbian ground squirrels*. Oral presentation, Graduate Student Council Research Forum, Auburn University, AL, April 2, 2008.
- **Skibiel, A. L.***, Trevino, H.* *Comparison of feeding enrichments on felids at the Montgomery Zoo*. Poster presentation, Zoological Association of America annual meeting, Montgomery, AL, October 12-15, 2005.
- **Skibiel, A.L.***, Kats, L. B., Vandergon, T. L. *Microsatellite allele composition differs significantly between two populations of the California newt, Taricha torosa, in the Santa Monica Mountains*. Poster presentation, Society for Integrative and Comparative Biology annual meeting, Toronto, Ontario, January 4-8, 2003.

GRANTS AND FELLOWSHIPS

- Post-doctoral fellowship, Comparative Lactation Lab, Harvard University, 2012
- NSF EPSCOR/Auburn University Cellular and Molecular Biosciences Peaks of Excellence Summer Research Fellowship, 2012
- Auburn University, Department of Biological Sciences Kenneth Ottis Distinguished Graduate Fellowship, 2012
- Funded. Impacts of maternal energy expenditure during lactation on maternal and offspring survival in the Columbian ground squirrel. American Society of Mammalogists Grant-in-Aid of Research, 2011
- Dr. Mary Ellen Mazey Annual Graduate Fellowship for Women in Science, 2010
- Not funded. Hormonal regulation of nutrient transfer during lactation: impacts on life history tradeoffs and offspring fitness. NSF Doctoral Dissertation Improvement Grant, Division of Environmental Biology, Evolutionary Processes Cluster, 2010

- **Funded.** Maternal investment and reproductive performance in Columbian ground squirrels. Auburn University Graduate Research Award, 2010
- **Funded.** Effects of maternal investment in milk quality on juvenile Columbian ground squirrels. Sigma Xi Grant-in-Aid of Research, 2009
- **Funded.** Effects of maternal investment in milk composition on juvenile Columbian ground squirrels. Sigma Xi Grant-in-Aid of Research, 2008
- **Funded.** Maternal effects in Columbian ground squirrels. Auburn University Graduate Research Award, 2006

TEACHING EXPERIENCE

Laboratories:

- Human Evolutionary Anatomy and Physiology, Harvard University, fall 2012
- Mammalian Physiology, Auburn University, fall and spring 2004-2012
- Comparative Anatomy, Auburn University, summer 2006
- Anatomy and Physiology I, Auburn University, summer 2005
- Biostatistics, Juniata College, fall 2002

Guest lectures:

- Milk synthesis in the context of life history strategies for Building Babies, 3-hr discussion, spring 2013
- Muscle anatomy and physiology, appendicular skeletal system, and nervous system lectures for Anatomy and Physiology, 5 lectures, summer 2012
- Skeletal muscle anatomy and physiology lecture for Anatomy and Physiology, 2 lectures, fall 2011
- Appendicular skeletal muscle lecture for Anatomy and Physiology, 2 lectures, fall 2011
- Renal physiology lecture for Anatomy and Physiology, 1 lecture, spring 2011

MENTORING EXPERIENCE

- 3 Undergraduate research students at Harvard University
- 3 Undergraduate research students at Auburn University
 - 1 Honor's thesis: Matt Ramirez, "Food intake, mean retention time, and digestibility in Columbian ground squirrels (*Urocitellus columbianus*) during lactation"
- 6 Undergraduate field assistants

PROFESSIONAL DEVELOPMENT

- Life Sciences Education undergraduate mentoring workshops, Harvard University, 2013
- Bok Center teaching conference, Harvard University, 2012

ACADEMIC HONORS AND AWARDS

- Student marshal for the College of Graduate Studies, Auburn University, 2012
- Graduate Student Council Research Symposium, second place prize for oral presentations, 2011
- Graduate Student Council Research Forum, top 30% of oral presentations, 2011

- Best poster in the Division of Ecology and Evolution, Society for Integrative and Comparative Biology annual meeting, Salt Lake City, UT, 2011
- Margaret McNeal Arant Memorial Award in Zoology, 2009
- Graduate School's Outstanding Doctoral Student Award, 2009
- Department of Biological Sciences Graduate Teaching Assistant Award, 2008
- Graduate Student Council Research Forum, third place prize for science presentation, 2008
- Auburn University Graduate Student Travel Award, 2007
- Dr. Andrew B. and Maria F. Brumbaugh Science Prize, 2003

PROFESSIONAL SOCIETIES

- Comparative Nutrition Society, 2010-present
- American Society of Mammalogists, 2009-present
- International Society for Behavioral Ecology, 2008-2009
- American Association for the Advancement of Science, 2007-present
- Society for Integrative and Comparative Biology, 2003-2004, 2007-present

SERVICE

University service:

- Biological Sciences Graduate Student Association, Auburn University, 2008-2010, President
- Graduate Recruiting Committee, Auburn University, 2005-2008, Graduate student representative
- Behavior, Ecology, and Evolution Reading Society, Auburn University, 2005-2006, Coordinator

Academic community:

Journals for peer review

- Ecology
- Zoo Biology

Community service:

- Society for Women in Sciences and Mathematics Symposium, 2010, Panelist
- Spread the Gnu's, 2009, Fundraiser organizer for local bookstore
- AU Forest Ecology Preserve, Creepy Critters, bat display, 2009