

**LIAM J. REVELL**  
*Curriculum Vitae*

National Evolutionary Synthesis Center (NESCent), Duke University,  
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PROFESSIONAL APPOINTMENTS:

2009- National Evolutionary Synthesis Center (NESCent), Durham, North Carolina  
Postdoctoral Fellow

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EDUCATION:

2006- Harvard University, Cambridge, Massachusetts  
2009 Organismic and Evolutionary Biology (Adv: Jonathan B. Losos)  
Doctor of Philosophy, June 2009

2003- Washington University, St. Louis, Missouri  
2006 Evolution, Ecology and Population Biology (Adv: Jonathan B. Losos)  
Master of Arts, August 2006

1999- Boston University, Boston, Massachusetts  
2003 Biology (Adv: Christopher J. Schneider)  
Bachelor of Arts, *summa cum laude* with distinction, May 2003

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PUBLICATIONS:

**Revell, L. J.**, D. L. Mahler, J. R. Sweeney, M. Sobotka, V. E. Fancher, and J. B. Losos. In Press. Non-linear selection and the evolution of variances and covariances for continuous characters in an anole. *Journal of Evolutionary Biology*.

Lovely, K. R., D. L. Mahler, and **L. J. Revell**. In Press. The rate and pattern of tail autotomy in five species of Puerto Rican anoles. *Evolutionary Ecology Research*.

Johnson, M. A., **L. J. Revell**, and J. B. Losos. In Press. Behavioral convergence and adaptive radiation: Effects of habitat use on territorial behavior. *Evolution*.

**Revell, L. J.** 2009. Size-correction and principal components for interspecific comparative studies. *Evolution* 63: 3258-3268.

**Revell, L. J.** and D. C. Collar. 2009. Phylogenetic analysis of the evolutionary correlation using likelihood. *Evolution* 63: 1090-1100.

**Revell, L. J.**, L. J. Harmon, and D. C. Collar. 2008. Phylogenetic signal, evolutionary process, and rate. *Systematic Biology* 57: 591-601.

**Revell, L. J.** 2008. On the analysis of evolutionary change along single branches in a phylogeny. *American Naturalist* 172: 140-147.

**Revell, L. J.**, and L. J. Harmon. 2008. Testing quantitative genetic hypotheses about the evolutionary rate matrix for continuous characters. *Evolutionary Ecology Research* 10: 311-331.

**Revell, L. J.**, and A. S. Harrison. 2008. PCCA: A program for phylogenetic canonical correlation analysis. *Bioinformatics* 24: 1018-1020.

Johnson, M. A., M. Leal, L. Rodríguez Schettino, A. Chamizo Lara, **L. J. Revell**, and J. B. Losos. 2008. A phylogenetic perspective on foraging mode evolution in West Indian *Anolis* lizards. *Animal Behaviour* 75: 555-563.

**Revell, L. J.**, M. A. Johnson, J. A. Schulte II, J. J. Kolbe, and J. B. Losos. 2007. A phylogenetic test for adaptive convergence in rock-dwelling lizards. *Evolution* 61: 2898-2912.

**Revell, L. J.** 2007. Testing the genetic constraint hypothesis in a phylogenetic context: A simulation study. *Evolution* 61: 2720-2727.

**Revell, L. J.** 2007. The **G** matrix under fluctuating correlational mutation and selection. *Evolution* 61: 1857-1872.

**Revell, L. J.**, L. J. Harmon, R. B. Langerhans, and J. J. Kolbe. 2007. A phylogenetic approach to determining the importance of constraint on phenotypic evolution in the neotropical lizard *Anolis cristatellus*. *Evolutionary Ecology Research* 9: 261-282.

**Revell, L. J.**, L. J. Harmon, and R. E. Glor. 2005. Underparameterized model of sequence evolution leads to bias in the estimation of diversification rates from molecular phylogenies. *Systematic Biology* 54: 973-983.

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SUBMITTED ARTICLES:

Mahler, D. L., **L. J. Revell**, R. E. Glor, and J. B. Losos. Ecological opportunity and the rate of morphological evolution in the diversification of Greater Antillean anoles. Submitted to *Evolution*.

Lindenfors, P., **L. J. Revell**, and C. L. Nunn. Sexual dimorphism in primate aerobic capacity: A phylogenetic test. Submitted to *Journal of Evolutionary Biology*.

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## PRESENTATIONS:

**Revell, L. J.** 2010. Predation and tail autotomy in *Anolis* lizards. Society for Integrative and Comparative Biology Meeting, Seattle, Washington. (Scheduled.)

**Revell, L. J.** 2009. Ecology and evolution of tail autotomy in several lizard species. NESCent Brown Bag Lunch seminar, Durham, North Carolina.

**Revell, L. J.** 2009. Some multivariate comparative methods for continuous characters. Society for the Study of Evolution Joint Meeting, Moscow, Idaho.

**Revell, L. J., D. C. Collar, and L. J. Harmon.** 2009. The measurement and interpretation of phylogenetic signal. Society for Integrative and Comparative Biology Meeting, Boston, Massachusetts.

**Revell, L. J.** 2008. Phylogenetic comparative methods and quantitative genetic constraint. Society for the Study of Evolution Joint Meeting, Minneapolis, Minnesota.

**Revell, L. J.** 2007. Bringing phylogenetic comparative approaches to the study of quantitative genetic constraint. Society for the Study of Evolution Joint Meeting, Christchurch, New Zealand.

**Revell, L. J.** 2006. Constraint and the evolution of a Caribbean anole, *Anolis cristatellus*. American Society of Ichthyologists and Herpetologists Annual Joint Meeting, New Orleans, Louisiana.

**Revell, L. J.** 2005. Quantitative genetics in anoles: A preliminary analysis. University of Puerto Rico at Río Piedras, invited seminar.

**Revell, L. J. and C. J. Schneider.** 2004. Sensory drive and population divergence in *Anolis marmoratus*. American Society of Ichthyologists and Herpetologists Annual Joint Meeting, Norman, Oklahoma.

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GRANTS, HONORS, AWARDS:

2009 Best Student Oral Presentation, Division of Systematics and Evolutionary Biology, SICB annual meeting (\$150).

2008 David Rockefeller Center for Latin American Studies (Harvard University) Term-Time Research Travel Grant for a research trip to Puerto Rico (\$1,500).

Museum of Comparative Zoology (Harvard University) Putnam Expedition Grant for a comparative analysis of phenotypic and genetic differentiation in two species of Puerto Rican anoles (\$3,000).

National Science and Engineering Research Council of Canada (NSERC) post-

- doctoral fellowship (\$80,000 CDN; declined).
- 2007 Museum of Comparative Zoology (Harvard University) Putnam Expedition Grant for the study of natural selection in a Puerto Rican lizard (\$8,300).
- 2006 National Science Foundation Doctoral Dissertation Improvement Grant (DDIG) for the study of natural selection and quantitative genetics in a Puerto Rican lizard (\$11,690).
- 2003 Phi Beta Kappa, Boston University.
- Boston University male scholar athlete of the year.
- Boston University Undergraduate Research Opportunities Program (UROP) Faculty Matching Grant for the study of evolution in a Guadeloupean lizard (\$2,000).
- 2001 Boston University UROP summer research fellowship for the study of behavioral ecology and evolution in a Guadeloupean lizard (\$3,500).
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TEACHING EXPERIENCE:

Volunteer tutor and teaching assistant, Cambridge School Volunteers (CSV), Cambridge Rindge and Latin School, Spring 2008 – Spring 2009.

Teaching assistant, Environmental Studies, Washington University in St. Louis, Spring 2006.

Teaching assistant, Environmental Studies: Biology, Washington University in St. Louis, Fall 2005.

Teaching assistant, Behavioral Ecology, Washington University in St. Louis, Spring 2005.

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STUDENT MENTORING:

Hannah Frank, Harvard University, Phylogenetic signal in lamellae number and size, Fall 2008 – Spring 2009.

Karen Lovely, Harvard University, Tail autotomy in five species of Puerto Rican anoles, Summer 2008 – Summer 2009.

Jonathan Sweeney, Reed College, Natural selection in *Anolis cristatellus* (field assistant), Spring 2007.

Molly Sobotka, Washington University in St. Louis, Natural selection in *Anolis cristatellus* (field and lab assistant), Spring and Summer, 2006.

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REVIEWER FOR:

American Naturalist (2)  
Belgian Journal of Zoology  
Ecography (2)  
Evolution (4)  
Functional Ecology  
Molecular Ecology Notes  
Proceedings of the Royal Society B  
Systematic Biology (2)  
Systematic Botany  
Trends in Ecology and Evolution

SOCIETY MEMBERSHIP:

American Society of Naturalists  
Canadian Society for Ecology and Evolution  
Society for Integrative and Comparative Biology  
Society for the Study of Evolution  
Society of Systematic Biologists