

Curriculum Vitae
CATHERINE RAMSAY LINNEN

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Education:

2000-2007 Ph.D. in Organismic and Evolutionary Biology
Harvard University; Cambridge, MA
Advisor: Dr. Brian Farrell

1996-2000 B.S. in Ecology (*Summa Cum Laude*, Highest Honors, GPA: 4.0)
University of Georgia; Athens, GA
Advisors: Dr. Mark Hunter and Dr. Daniel Promislow

Professional Experience:

2007- Postdoctoral Fellow, National Institutes of Health NRSA
Organismic & Evolutionary Biology, Harvard University
Advisor: Dr. Hopi Hoekstra

2005-2006 Teaching Assistant, General Biology
Harvard University Summer School (2 summer sessions)

2005-2006 Teaching Assistant, General Biology
Harvard University Extension School (fall and spring sessions)

2001-2002 Teaching Fellow, Animal Behavior, Harvard University

2001 Teaching Fellow, Ecology, Harvard University

2000-2001 Teaching Fellow, Organismal Biology, Harvard University

1999-2000 Research Assistant, University of Georgia, Institute of Ecology
Studied the effect of canopy herbivory on nutrient cycling in a forest ecosystem, as well as the influence of herbivore saliva on plant growth under the direction of Dr. Mark Hunter.

1997-1999 Research Assistant, University of Georgia, Department of Genetics
Studied the genetics of aging in *Drosophila melanogaster* under the direction of Dr. Daniel Promislow.

Grants:

2004 Putnam Expedition Grant (Museum of Comparative Zoology, Harvard University), "Proposal for an expedition to collect the *Neodiprion* (Hymenoptera, Diprionidae) of the southeastern United States" (\$3,056)

2003-2004 National Science Foundation, "Dissertation Research: Phylogenesis of hostshifts and specialization in *Neodiprion* sawflies" (\$10,570) (Co-PI Brian Farrell)

2003 AMNH Theodore Roosevelt Memorial Fund, "Systematics of the genus *Neodiprion* Rohwer (Hymenoptera: Diprionidae)" (\$1,241)

- 2003 Putnam Expedition Grant (Museum of Comparative Zoology, Harvard University),
“Proposal for an expedition to collect the *Neodiprion* (Hymenoptera, Diprionidae) of
the western United States” (\$3,687)
- 2002 Putnam Expedition Grant (Museum of Comparative Zoology, Harvard University),
“Proposal for an expedition to collect the *Neodiprion* (Hymenoptera, Diprionidae) of
the southwestern United States” (\$2,500)
- 2002 AMNH Theodore Roosevelt Memorial Fund, “Systematics of the genus *Neodiprion*
Rohwer (Hymenoptera: Diprionidae)” (\$1,800)
- 2002 Putnam Expedition Grant (Museum of Comparative Zoology, Harvard University),
“Proposal for an expedition to collect the *Neodiprion* (Hymenoptera, Diprionidae) of
eastern Canada” (\$2,748)
- 2001 Putnam Expedition Grant (Museum of Comparative Zoology, Harvard University),
“Proposal for an expedition to collect the *Neodiprion* (Hymenoptera, Diprionidae) of
the northeastern United States” (\$1,500)

Fellowships:

- 2007-2010 National Institutes of Health NRSA Postdoctoral Fellowship
- 2004-2007 Environmental Protection Agency STAR (Science to Achieve Results) Graduate
Fellowship
- 2004 Graduate School of Arts and Sciences Merit Fellowship (John Parker Scholarship),
Harvard University
- 2000-2004 National Science Foundation Graduate Research Fellowship
- 1998 Howard Hughes Fellowship for Undergraduate Research

Awards:

- 2006 Ernst Mayr Award for Best Student Research Presentation
Society of Systematic Biologists
- 2003 President’s Prize for Student Paper Competition (Honorable Mention)
Entomological Society of America
- 2001 Derek Bok Award for Excellence in Teaching, Harvard University
- 2000 Derek Bok Award for Excellence in Teaching, Harvard University
- 2000 Josh Laerm Memorial Outstanding Ecology Undergraduate Award
Institute of Ecology, University of Georgia
- 2000 First Honor Graduate (4.0 GPA), University of Georgia
- 2000 Phi Beta Kappa Honor Society, University of Georgia

Scientific Memberships:

American Association for the Advancement of Science
American Society of Naturalists
Entomological Society of America
Society for the Study of Evolution
Society of Systematic Biologists
Symphytos

Service:

2009	Reviewer for <i>Systematic Biology</i> , <i>Evolution</i>
2008	Reviewer for <i>Evolution</i>
2007-2008	Reviewer for <i>Molecular Ecology</i>
2006	Cape Cod Evaluation Bioblitz volunteer (E. O. Wilson Biodiversity Foundation)
2005-2006	Mentor for undergraduate women in science, Harvard University
2004-2006	Teaching assistant for Harvard ExperiMentors' Day
2003-2008	Teaching assistant for the Life Sciences-HHMI High School Outreach Program
2003-2004	OEB Graduate Student Representative
2002-2003	Co-organizer of the OEB Graduate Student Seminar Series

Publications:

- Linnen, C.R.**, E.P. Kingsley, J.D. Jensen and H.E. Hoekstra. *In press*. On the origin and spread of an adaptive allele in deer mice. *Science*.
- Weber, J.N., M.B. Peters, O.V. Tsyusko, **C.R. Linnen**, C. Hagen, N.A. Schable, T.D. Tuberville, A.M. McKee, S.L. Lance, K.L. Jones, H.S. Fisher, M.J. Dewey, H.E. Hoekstra and T.C. Glenn. *In press*. Five hundred microsatellite loci for *Peromyscus*. *Conservation Genetics*.
- Linnen, C.R.** *In revision*. Species-tree estimation for complex divergence histories: a case study in *Neodiprion* sawflies. *In* Estimating species trees: in practice and theory (L.L. Knowles and L.S. Kubatko, eds.). Wiley-Blackwell, Hoboken, NJ.
- Linnen, C.R.** and B.D. Farrell. *In review*. A test of the sympatric host race formation hypothesis in *Neodiprion* (*lecontei* group). *Evolution*.
- Linnen, C.R.** and B.D. Farrell. 2008. Comparison of methods for species-tree inference in the sawfly genus *Neodiprion* (Hymenoptera: Diprionidae). *Systematic Biology* 57: 876-890.
- Linnen, C.R.** and B. D. Farrell. 2008. Phylogenetic analysis of nuclear and mitochondrial genes reveals mitochondrial introgression and evolutionary relationships in the *Sertifer* species group of *Neodiprion* (Hymenoptera: Diprionidae). *Molecular Phylogenetics and Evolution* 48: 240-257.
- Linnen, C.R.** and B.D. Farrell. 2007. Mito-nuclear discordance is caused by rampant mitochondrial introgression in *Neodiprion* (Hymenoptera: Diprionidae) sawflies. *Evolution* 61(6): 1417-1438.
- Hunter, M.D., **C.R. Linnen** and B.C. Reynolds. 2003. Effects of endemic densities of canopy herbivores on soil processes along a gradient in elevation in the southern Appalachians. *Pedobiologia* 47(3): 231-244.
- Linnen, C.R.**, M. Tatar and D.E.L. Promislow. 2001. Cultural artifacts: A comparison of senescence in natural, laboratory, and artificially selected lines of *Drosophila melanogaster*. *Evolutionary Ecology Research* 3: 877-888.

Invited Presentations:

- 2009 Estimating Species Trees: A Phylogenetic Paradigm for the 21st Century (Workshop at the University of Michigan)
"Grafting gene trees onto species trees: Insights into speciation and adaptation"
- 2005 University of Massachusetts Amherst, Department of Entomology
"Speciation in *Neodiprion* sawflies"
- 2000 11th Annual Student convention in Gerontology and Geriatrics
"Effects of laboratory culture on aging patterns in *Drosophila melanogaster*."

Presentations at Meetings:

- 2008 Evolution meeting (Minneapolis, MN) “Molecular basis of adaptation: Cryptic color of deer mice living on the Nebraska Sand Hills.”
- 2006 EPA STAR Fellows Conference (Washington, D.C.) “Dueling datasets: Why do mitochondrial and nuclear gene trees disagree on *Neodiprion* phylogeny?” (poster)
- 2006 Genetics of Speciation meeting (Vancouver, BC) “Dueling datasets: Why do mitochondrial and nuclear gene trees disagree on *Neodiprion* phylogeny?” (poster)
- 2006 Evolution meeting (Stonybrook, NY) “Dueling datasets: Why do mitochondrial and nuclear gene trees disagree on *Neodiprion* phylogeny?”
- 2005 Evolution meeting (Fairbanks, AK) “How do *Neodiprion* sawflies speciate?”
- 2004 Evolution meeting (Fort Collins, CO) “The role of host shifts and specialization in the speciation of *Neodiprion* sawflies”
- 2003 Entomological Society of America meeting (Cincinnati, OH) “The role of host shifts and specialization in the speciation of *Neodiprion* sawflies”
- 1999 Southeastern Population Ecology and Genetics Group (Mountain Lake, VA) “Effects of laboratory culture on aging patterns in *Drosophila melanogaster*”

References:

Hopi E. Hoekstra (postdoctoral advisor)

Associate Professor
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Brian D. Farrell (PhD advisor)

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