

Curriculum Vitae
AMY LAUREN ANGERT

Contact: Department of Biology
Colorado State University
Fort Collins, CO 80523
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Professional appointments:

2008 – **Assistant professor**
Department of Biology, Colorado State University
2005 – 2007 **Postdoctoral research associate**
Department of Ecology and Evolutionary Biology, University of Arizona
Advisors: Larry Venable and Travis Huxman

Education:

2001 – 2005 **Ph.D.**, Plant Biology and Ecology, Evolution, and Behavioral Biology
Michigan State University, East Lansing, Michigan
Advisor: Douglas Schemske
1998 – 2001 **Ph.D. program**, Botany
University of Washington, Seattle, Washington
Advisor: Douglas Schemske
1994 – 1998 **B.A.**, Biology, *summa cum laude*
Washington University, St. Louis, Missouri
Advisor: Jonathan Losos

Publications:

Angert AL, HD Bradshaw, and DW Schemske. 2008. "Using experimental evolution to investigate geographic range limits in monkeyflowers." *Evolution* 62: 2660-2675. [Faculty of 1000 selection]

Huxman TE, GA Barron-Gafford, KL Gerst, **AL Angert**, AP Tyler, and DL Venable. 2008. "Photosynthetic resource-use efficiency and demographic variability in desert annuals." *Ecology* 89:1554-1563.

Angert AL, TE Huxman, GA Barron-Gafford, KL Gerst, and DL Venable. 2007. "Linking growth strategies to long-term population dynamics in a guild of desert annuals." *Journal of Ecology* 95: 321-331.

Angert AL. 2006. "Demography of central and marginal populations of monkeyflowers (*Mimulus cardinalis* and *M. lewisii*)." *Ecology* 87: 2014-2025.

Angert AL. 2006. "Growth and leaf physiology of monkeyflowers with different altitude ranges." *Oecologia* 148: 183-194.

Angert AL and DW Schemske. 2005. "The evolution of species' distributions: Reciprocal transplants across the elevation ranges of *Mimulus cardinalis* and *M. lewisii*." *Evolution* 59: 1671-1684.

Angert AL, D Hutchison, D Glossip, and J Losos. 2002. "Microhabitat use and thermal biology of the collared lizard (*Crotaphytus collaris collaris*) and the fence lizard (*Sceloporus undulatus hyacinthinus*) in Missouri glades." *Journal of Herpetology* 36: 23-29.

Grants:

2009 National Science Foundation, REU Supplement (\$9,125)

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- 2007 – 2010 National Science Foundation, DEB-Ecology, “Phenotypic constraints and community structure: Linking intra- and interspecific tradeoffs.” (\$404,000; with co-PIs Travis Huxman and Larry Venable)
- 2001 – 2004 National Science Foundation Doctoral Dissertation Improvement Grant (\$9,000)
- 2003 Paul Taylor Travel Grant, Michigan State University (\$500)
- 2003 New Phytologist Travel Bursary (\$500)
- 2000 California Native Plant Society Research Grant (\$1,000)
- 1999 Sigma Xi Grant-in-Aid-of-Research (\$800)
- 1999 Travel Grant, Botany Department, University of Washington (\$1,000)
- 1999 Northwest Orchid Society Research Grant (\$500)

Fellowships:

- 2005 National Evolutionary Synthesis Center Postdoctoral Fellowship (offer declined)
- 1998 – 2001 National Science Foundation Graduate Research Fellowship
- 1996, 1997 Howard Hughes Medical Institute Undergraduate Research Fellowships
- 1994 – 1998 Arthur Holly Compton Fellowship for Science & Math, Washington University

Invited presentations:

- 2009 Department of Biology, University of Calgary, “Ecological and evolutionary determinants of geographic range limits.”
- 2008 National Academy of Sciences Arthur M. Sackler Colloquium, Biogeography, Niche Evolution and Climate Change, Irvine, California, “Species facing range limits.”
- Jill Fredericksen-Adams Memorial Lecture, Department of Biology, University of Washington, “Functional biology, demographic variability, and species coexistence in desert annual plants.”
- Department of Biology, University of Northern Colorado, “Functional biology, demographic variability, and species coexistence in desert annual plants.”
- Bioagricultural Sciences and Pest Management, Colorado State University, “Functional biology, demographic variability, and species coexistence in desert annual plants.”
- 2007 Department of Ecology & Evolution, University of California, San Diego, “The ecology and evolution of species’ distributions.”
- Department of Organismal & Evolutionary Biology, Harvard University, “The ecology and evolution of species’ distributions.”
- Department of Biology, University of Missouri, St. Louis, “The ecology and evolution of species’ distributions.”
- Department of Biology, University of Iowa, “The ecology and evolution of species’ distributions.”
- 2005 Adaptations for Life at High Elevation Symposium, Society for Integrative and Comparative Biology, San Diego, California, “Tradeoffs and the evolution of altitude range limits in monkeyflowers.”

Submitted presentations:

- 2008 Ecological Society of America, Milwaukee, Wisconsin, “Functional tradeoffs promote species coexistence via the storage effect.”
- 2006 Ecological Society of America, Memphis, Tennessee, “Functional trait variation

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- and differential responsiveness to precipitation in a guild of Sonoran Desert winter annuals.”
- 2004 Society for the Study of Evolution, Fort Collins, Colorado, “The evolution of geographic range limits in monkeyflowers.”
- 2003 Ecological Society of America, Savannah, Georgia, “Adaptation at geographic range limits of monkeyflowers (*Mimulus cardinalis* and *M. lewisii*).”
- 2003 Midwest Ecology and Evolution Conference, Akron, Ohio, “Adaptation at geographic range limits of monkeyflowers (*Mimulus cardinalis* and *M. lewisii*).”
- 2003 Plant Speciation Symposium, Plant Canada Meeting, Antigonish, Nova Scotia, “Mechanisms of ecogeographic isolation between *Mimulus cardinalis* and *M. lewisii*.”

Workshop and course participation:

- 2007 – 2009 NCEAS/NESCent working group, *Mechanistic Distribution Models: Energetics, Fitness, and Population Dynamics*
- 2004 – 2005 *Scientific Teaching in Plant Biology*, Michigan State University
- 2002 *Matrix Population Modeling*, Kellogg Biological Station
- 2001 *Tropical Biology: An Ecological Approach*, Organization for Tropical Studies

Teaching:

- Spring 2009 BZ 481A: Molecular Ecology (new course designed with Chris Funk)
- Spring 2009 BZ 692/ECOL 592: Molecular Ecology (companion discussion course)
- Fall 2008 LIFE 103: Biology of Organisms
- Fall 2008 ECOL 592: Gene Flow and Selection (graduate discussion group)

Service:

- 2009 Organizer, evolution activities and displays, Putnam Elementary Science Carnival, Fort Collins, Colorado
- Panelist, MAD (Mothers and Daughters) About Nature program, Environmental Learning Center, Colorado State University
- 2008 Panelist, committee for information technology development, American Society of Plant Biologists, Rockville, Maryland
- 2008 - 2009 Member, Graduate Committee, Department of Biology, Colorado State University
- 2007 - 2009 Ad hoc proposal reviewer, National Science Foundation
- 2005 - 2009 Ad hoc manuscript reviewer: *American Naturalist*, *American Journal of Botany*, *Annals of Botany*, *Australian Journal of Botany*, *Ecology*, *Evolution*, *Functional Ecology*, *International Journal of Plant Sciences*, *Journal of Ecology*, *New Phytologist*, *Oecologia*, *Oikos*, *Proceedings of the Royal Society of London Series B*
- 2006 Science fair judge, Pusch Ridge Academy, Tucson, Arizona
- 2003 – 2005 Graduate student representative, Executive Committee, Ecology, Evolution, and Behavioral Biology, Michigan State University

Advising:

- Postdoctoral advisor John Paul

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Major advisor	Seema Sheth (doctoral student)
Committee member	Christine Bacon (doctoral student)
	Jen Cappa (doctoral student)
	Becky Chong (doctoral student)
	Julian Torres Dowdall (doctoral student)
	Amanda Lease (masters student)
	Gordon Reese (doctoral student)
	Wiebke Tapken (doctoral student)