

Amy Lauren Angert

The University of British Columbia
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Professional appointments

Associate Professor Botany and Zoology, University of British Columbia, Vancouver, BC	2015 – present
Assistant Professor Botany and Zoology, University of British Columbia, Vancouver, BC	2012 – 2015
Assistant Professor Biology, Colorado State University, Fort Collins, CO	2008 – 2012
Postdoctoral Research Associate Ecology and Evolutionary Biology, University of Arizona, Tucson, AZ	2005 – 2007

Education

Ph.D. , Plant Biology and Ecology, Evolution, and Behavioral Biology Michigan State University, East Lansing, MI	2005
Ph.D. candidate , Botany University of Washington, Seattle, WA	1998 – 2001
B.A. , Biology, <i>summa cum laude</i> Washington University, St. Louis, MO	1994 – 1998

Areas of emphasis

Evolutionary and population ecology, especially of plants
Biogeography, focusing on range limits, rarity, and climate-driven range shifts
Plant functional ecology and its relationship to population and community dynamics

Publications

47. [Bontrager MG](#) and **Angert AL**. 2018. Gene flow improves fitness at a range edge under climate change. *Evolution Letters*, in press.

Curriculum Vitae
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46. **Angert AL**, M Bayly, SN Sheth, and JR Paul. 2018. Testing range-limit hypotheses using range-wide habitat suitability and occupancy for the scarlet monkeyflower (*Erythranthe cardinalis*). *The American Naturalist* 191: E76-E89.
45. Li Q, DL Grossenbacher, and **AL Angert**. 2018. The effect of range overlap on ecological niche divergence depends on spatial scale in monkeyflowers. *Evolution* 72: 2100-2113.
44. Gamble DE, MG Bontrager, and **AL Angert**. 2018. Floral trait variation and links to climate in the mixed-mating annual *Clarkia pulchella*. *Botany* 96: 425-435.
43. Germain RM, JL Williams, D Schluter, and **AL Angert**. 2018. Moving character displacement beyond characters using contemporary coexistence theory. *Trends in Ecology and Evolution* 33: 74-84.
42. Lewthwaite JMM, **AL Angert**, SW Kembel, SJ Goring, TJ Davies, AO Mooers, FAH Sperling, SM Vamosi, JC Vamosi, and JT Kerr. 2018. Canadian butterfly climate debt is significant and correlated with range size. *Ecography*.
41. Sheth SN and **AL Angert**. 2018. Demographic compensation does not rescue populations at a trailing range edge. *Proceedings of the National Academy of Sciences* 115:2413-2418.
40. Muir CD and **AL Angert**. 2018. Grow with the flow: A latitudinal cline in physiology is associated with more variable precipitation in *Erythranthe cardinalis*. *Journal of Evolutionary Biology*, in press.
39. Csergo AM, R Salguero-Gomez, O Broennimann, S Coutts, A Guisan, **AL Angert**, E Welk, I Stott, B Enquist, B McGill, J-C Svenning, C Violle, and Y Buckley. 2017. Less favourable climates constrain demographic strategies in plants. *Ecology Letters* 20: 969-980.
38. Sargent R, JL Williams, and **AL Angert**. 2017. When are species invasions useful for addressing fundamental questions in plant biology? *American Journal of Botany* 104: 797-799.
37. Gilbert KJ, NP Sharp, **AL Angert**, GL Conte, JA Draghi, F Guillaume, AL Hargreaves, R Matthey-Doret, and MC Whitlock. 2017. Local adaptation interacts with expansion load during range expansion: maladaptation reduces expansion load. *American Naturalist* 189: 368-380.
36. Pironon S, G Papuga, J Villellas, **AL Angert**, MB Garcia, and J Thompson. 2016. Geographic variation in genetic and demographic performance: New insights from an old biogeographical paradigm. *Biological Reviews* Early View (doi: 10.1111/brv.12313). [0, 1
35. Peterson M, KM Kay, and **AL Angert**. 2016. The scale of local adaptation in *Mimulus guttatus*: comparing life history races, ecotypes, and populations. *New Phytologist* 211: 345-356.
 - Commentary by von Wettberg et al., *New Phytologist* 211: 8-10.

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34. Lee-Yaw J, H Kharouba, MG Bontrager, C Mahoney, A Noreen, AM Csergo, R Schuster, Q Li, and **AL Angert**. 2016. A synthesis of transplant experiments and ecological niche models suggests that range limits are often niche limits. *Ecology Letters* 19: 710-722.
33. Bontrager MG and **AL Angert**. 2016. Effects of range-wide variation in climate and isolation on floral traits and reproductive output of *Clarkia pulchella*. *American Journal of Botany* 103: 10-21.
32. Sheth SN and **AL Angert**. 2016. Artificial selection reveals high genetic variation in phenology at the trailing edge of a species range. *American Naturalist* 187: 182-193.
 - Winner of 2017 *American Naturalist* Student Paper Award
31. Louthan A, **AL Angert**, and DF Doak. 2015. Where and when do species interactions set range limits? *Trends in Ecology and Evolution* 30: 780-792.
30. Borgman EM, AW Schoettle, and **AL Angert**. 2015. Assessing the potential for maladaptation during active management of limber pine populations: A common garden study detects genetic differentiation in response to soil moisture in the Southern Rocky Mountains. *Canadian Journal of Forest Research* 45: 496-505.
29. Borgman EM, AW Schoettle, and **AL Angert**. 2014. Using among-year variation to assess maternal effects in *Pinus aristata* and *Pinus flexilis*. *Botany* 92: 805-814.
28. **Angert AL**, S Kimball, M Peterson, TE Huxman, and DL Venable. 2014. Phenotypic constraints and community structure: Testing the concordance of trade-offs within and among species. *Evolution* 68: 3149-3165.
27. Maron JL, K Baer, and **AL Angert**. 2014. Disentangling the drivers of context-dependent plant-animal interactions. *Journal of Ecology* 102:1485-1496.
26. Sheth SN and **AL Angert**. 2014. The evolution of environmental tolerance and range size: A comparison of geographically restricted and widespread *Mimulus*. *Evolution* 68: 2917-2931.
25. Sheth SN, I Jiménez, and **AL Angert**. 2014. Identifying the paths leading to variation in geographical range size in western North American monkeyflowers. *Journal of Biogeography* 41: 2344-2356.
24. Kimball S, JR Gremer, GA Barron-Gafford, **AL Angert**, TE Huxman, and DL Venable. 2014. High water-use efficiency and growth contribute to success of non-native *Erodium cicutarium* in a Sonoran Desert winter annual community. *Conservation Physiology* 2: cou006-cou006.
23. Gremer JR, S Kimball, KR Keck, TE Huxman, **AL Angert**, and DL Venable. 2013. Water-use efficiency and relative growth rate mediate competitive interactions in Sonoran Desert winter annual plants. *American Journal of Botany* 100: 2009-2015.

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22. Kimball S, JR Gremer, TE Huxman, DL Venable, and **AL Angert**. 2013. Phenotypic selection favors missing trait combinations in coexisting annual plants. *American Naturalist* 182: 191-207.
21. Huxman TE, S Kimball, **AL Angert**, JR Gremer, GA Barron-Gafford, and DL Venable. 2013. Understanding past, contemporary, and future dynamics of plants, populations and communities using Sonoran Desert Winter Annuals. *American Journal of Botany* 100: 1369-1380.
20. Barron-Gafford GA*, **AL Angert***, DL Venable, KL Gerst, AP Tyler, and TE Huxman. 2013. Photosynthetic temperature responses of co-occurring desert winter annuals with contrasting resource-use efficiencies and different temporal patterns of resource utilization may allow for species coexistence. *Journal of Arid Environments* 91: 95-103. *authors contributed equally
19. Gremer JR, S Kimball, TE Huxman, **AL Angert**, and DL Venable. 2012. Variation in photosynthetic response to temperature in a guild of winter annuals. *Ecology* 93: 2693-2704.
18. Kimball S, JR Gremer, **AL Angert**, TE Huxman, and DL Venable. 2011. Fitness and physiology in a variable environment. *Oecologia* 169: 319-329.
17. Kimball S, **AL Angert**, TE Huxman, and DL Venable. 2011. Differences in the timing of germination and reproduction relate to growth physiology and population dynamics of Sonoran Desert winter annuals. *American Journal of Botany* 98: 1773-1781.
16. **Angert AL**, SN Sheth, and JR Paul. 2011. Incorporating population variation in thermal performance into predictions of geographic range shifts. *Integrative and Comparative Biology* 51: 733-750.
15. Paul JR, SN Sheth, and AL Angert. 2011. Quantifying the impact of gene flow on phenotype-environment mismatch: A demonstration with the scarlet monkeyflower (*Mimulus cardinalis*). *American Naturalist* 178: S62-S79.
 - Reproduced in *Eco-evolutionary Dynamics* (A. Hendry, ed.)
14. **Angert AL**, LG Crozier, LJ Rissler, SE Gilman, JJ Tewksbury, and AJ Chunco. 2011. Do species' traits predict recent range shifts? *Ecology Letters* 14: 677-689.
 - Highly cited paper (top 1% in Environment/Ecology)
 - 1 of 5 most downloaded papers in *Ecology Letters* in 2011
 - Media (<http://www.sciencedaily.com/releases/2011/05/110512091816.htm>)
13. Gerst KL, **AL Angert**, and DL Venable. 2011. The effect of geographic range position on demographic variability in annual plants. *Journal of Ecology* 99: 591-599.

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12. Kimball S, **AL Angert**, TE Huxman, and DL Venable. 2010. Contemporary climate change favors cold-adapted species in the Sonoran Desert. *Global Change Biology* 16: 1555-1565.
 - Media (<http://www.sciencedaily.com/releases/2009/12/091216144145.htm>)
11. **Angert AL**, JL Horst, TE Huxman, and DL Venable. 2010. Phenotypic plasticity and precipitation response in Sonoran Desert winter annuals. *American Journal of Botany* 97: 405-411.
10. **Angert AL**. 2009. Colloquium Papers: The niche, limits to species' distributions, and spatiotemporal variation in demography across the elevation ranges of two monkeyflowers. *Proceedings of the National Academy of Sciences* 106: 19693-19698.
9. Sexton JP, PJ McIntyre, **AL Angert**, and KJ Rice. 2009. Evolution and ecology of species range limits. *Annual Review of Ecology, Evolution and Systematics* 40: 415-436.
 - Highly cited paper (top 1% in Environment/Ecology)
 - 5th most downloaded paper in AREES since 1996, 4th in last 12 months
8. **Angert AL**, TE Huxman, P Chesson, and DL Venable. 2009. Functional trade-offs determine species coexistence via the storage effect. *Proceedings of the National Academy of Sciences* 106:11641-11645.
7. **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
6. 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.
5. **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.
4. **Angert AL**. 2006. Demography of central and marginal populations of monkeyflowers (*Mimulus cardinalis* and *M. lewisii*). *Ecology* 87: 2014-2025.
3. **Angert AL**. 2006. Growth and leaf physiology of monkeyflowers with different altitude ranges. *Oecologia* 148: 183-194.
2. **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.
 - Reproduced in ecology textbook, *Economy of Nature* (R. Ricklefs, ed).
1. **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

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lizard (*Sceloporus undulatus hyacinthinus*) in Missouri glades. *Journal of Herpetology*
36: 23-29.

Grants

- NSF DEB Ecology, \$620,000** 2016 – 2020
Plant community assembly and disassembly with climate change (coPI)
- Canadian Foundation for Innovation Operating Funds, \$37,292**
2015 – 2018
Centre for Experimental Biogeography (PI)
- Canadian Foundation for Innovation, \$311,000** 2014
– 2016
Centre for Experimental Biogeography (PI)
- Canadian Foundation for Innovation, \$2,120,000** 2013
– 2018
Construction of Envirotron (coPI)
- NSERC Discovery Grant, \$182,000** 2012 – 2019
Evolutionary ecology of geographic ranges in western North American *Mimulus* (PI)
- NSF DEB Evolutionary Ecology, \$14,984** 2012
– 2014
Dissertation Research: Role of evolutionary potential in limiting distributions (PI)
- USDA Special Technology Development Program, \$54,921** 2012
– 2014
Optimizing deployment of planting stock for multigenerational management of white pine blister rust and mountain pine beetle in limber pine stands (coPI)
- NSF DEB Population and Community Ecology, \$97,499** 2011
– 2012
Workshop: Climate change and species interactions: ways forward (coPI)
- Shortgrass Steppe LTER VI, \$36,150** 2011
– 2013
Ecological genetics of blue grama (*Bouteloua gracilis*) (PI)
- NSF REU Supplement, \$7,500**
2011
Ecological and evolutionary dynamics of geographic range limits (PI)

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NSF DEB Evolutionary Processes / Pop. & Comm. Ecology, \$621,000 2010
– 2013

Ecological and evolutionary dynamics of geographic range limits (PI)

NSF DEB Ecology, \$575,000 2009 – 2012

Functional biology and community dynamics of desert annual plants (coPI)

NSF DEB Ecology, \$404,000 2007 – 2010

Phenotypic constraints and community structure (PI)

NSF REU Supplement, \$9,125

2009

Phenotypic constraints and community structure (PI)

Shortgrass Steppe LTER V, \$23,900

2009

The effects of precipitation pulses on growing season length and species' life histories in a semi-arid grassland (coPI)

NSF DEB Evolutionary Processes, \$9,000 2001

– 2004

Dissertation Research: The ecology and evolution of geographic range limits (coPI)

Fellowships and Awards

Tier 2 Canada Research Chair in Conservation Ecology 2012 – 2022

National Evolutionary Synthesis Center Postdoctoral Fellowship (offer declined) 2005

National Science Foundation Graduate Research Fellowship 1998 – 2001

Howard Hughes Medical Institute Undergraduate Research Fellowships 1996, 1997

Arthur Holly Compton Fellowship for Science & Math 1994 – 1998

Invited presentations

Symposia

Canadian Society for Ecology and Evolution, Victoria, BC 2017

Symposium: Life on the Edge: Mechanisms of Adaptation to Climate Change
“Demographic compensation, climatic tipping points, and evolutionary rescue”

Society for the Study of Evolution, Austin, TX 2016

Symposium: How and Why? Towards an Evolutionary Physiology Synthesis
“Lability and constraint during niche evolution”

Canadian Botanical Association, Victoria, BC 2016

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Symposium: Plant Species at the Edge

"Why do plant species distributions lag recent climate change?"

Linnean Centre of Plant Biology Network Meeting, *Uppsala, Sweden* 2015

"Dispersal or fitness limitation? Determining the proximate causes of species' geographic range limits" (**Keynote**)

Gordon Research Conference: Unifying Ecology Across Scales, Biddeford, ME 2014

"Relating intra- and interspecific variation in niche properties to differences in geographic range size"

Eco-Evo Retreat Brackendale, BC 2014

"Functional biology and community assembly of desert annual plants" (**Keynote**)

Forest Genetics, Whistler, BC 2013

"Forecasting future distributions: current limitations and next steps" (**Plenary**)

Chicago Plant Science, Chicago, IL 2011

Symposium: Species: From Concepts to Conservation

"The ecological and evolutionary dynamics of species' geographic ranges."

Society for Integrative and Comparative Biology, Salt Lake City, UT 2011

Symposium: A synthetic approach to the response of organisms to climate change

"Incorporating population variation in thermal niche properties into geographic range shift predictions."

Ecological Society of America, Pittsburgh, PA 2010

Symposium: Does Biology Matter in Predicting Responses to Climate Change?

"Can species' traits predict recent range shifts?"

American Society of Naturalists, Portland, OR 2010

Vice-Presidential Symposium: Ecological and Evolutionary Limits to Geographic Ranges

"Gene flow and phenotypic divergence across a geographic range."

Ecological Society of America, Las Cruces, NM 2009

Organized Oral Session: Projection Matrix Models: Investigating General Patterns in Plant Demography

"Population dynamics across species ranges: Comparative demography of central and marginal populations of *Mimulus cardinalis* and *M. lewisii*."

National Academy of Sciences Arthur M. Sackler Colloquium, Irvine, CA 2008

Biogeography, Niche Evolution and Climate Change

"Species facing range limits."

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Society for Integrative and Comparative Biology, San Diego, CA 2005
Symposium: Adaptations for Life at High Elevation
"Trade-offs and the evolution of altitude range limits in monkeyflowers."

Departmental seminars

UC Santa Barbara 2018
University of Arizona 2017
University of Georgia 2017
Pennsylvania State University 2016
University of California Berkeley, **Julius Thomas Hansen Lectureship** 2016
Uppsala University, Evolutionary Biology Centre 2015
Duke University, Program in Ecology 2014
UC Davis, Ecology and Evolution Group 2014
University of Victoria, Centre for Forest Biology and Department of Biology 2014
Utah State University, Ecology Center 2013
Florida State University, Biology Colloquium 2013
University of Kansas, Department of Ecology and Evolutionary Biology 2012
SUNY Stony Brook, **George William Lecture**
2012
University of Minnesota, Plant Sciences Colloquium 2012
University of Montana, Ecology Seminar Series, Division of Biological Sciences 2011
Rancho Santa Ana Botanic Garden 2011
University of British Columbia, Biodiversity Research Centre 2010
University of Wyoming, Department of Botany 2010
Washington University, Ecology, Evolution and Population Biology Program 2010
University of Toronto, Department of Ecology and Evolutionary Biology 2010
University of Colorado, Department of Ecology and Evolutionary Biology 2009
University of Calgary, Department of Biology 2009
University of Washington, **Jill Fredericksen-Adams Memorial Lecture**
2008
University of Northern Colorado, Department of Biology 2008
Colorado State University, Bioagricultural Sciences and Pest Management 2008
University of California San Diego, Department of Ecology & Evolution 2007
Colorado State University, Department of Biology 2007
Harvard University, Department of Organismal & Evolutionary Biology 2007
University of Missouri St. Louis, Department of Biology 2007
University of Iowa, Department of Biology 2007

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Submitted presentations

- Society for the Study of Evolution, Portland, OR 2017
- "Is climate change disrupting local adaptation? A meta-analysis of field translocations." by **AL Angert** with MG Bontrager, C Mahoney, C Leven, R Germain, D Gamble, A Hargreaves, L Kleynhans
 - "Effects of gene flow on the performance at the northern range margin of *C. pulchella*." by MG Bontrager with **AL Angert**
 - "Niche divergence in *Mimulus* driven by range overlap and time." by Q Li with **AL Angert**
- Ecological Society of America, Baltimore, MD 2015
- "Artificial selection reveals high genetic variation in phenology at the trailing edge of a species range," by SN Sheth with **AL Angert**
- George Wright Society Conference, Oakland, CA 2015
- "Assessing the potential for maladaptation during active management of limber pine populations" by E. Borgman with A. Schoettle and **AL Angert** (poster)
- Society for the Study of Evolution, Raleigh, NC 2014
- "Life history selection drives the early evolution of reproductive barriers in *Mimulus guttatus*," by M. Peterson with **AL Angert** and K. Kay
- Honorable Mention, Hamilton Award
- Ecological Society of America, Minneapolis, MN 2013
- "Understanding maternal effects in long-lived plant species to improve genotype selection for conservation," by E. Borgman with A. Schoettle and **AL Angert**
- Society for the Study of Evolution, Snowbird, UT 2013
- "Does a jack-of-all-temperatures have a large geographic range?" by S. Sheth with **AL Angert**
 - "Population genomics and geographic range limits in the scarlet monkeyflower (*Mimulus cardinalis*)," by J. Paul with **AL Angert**, T. Parchmann, and A. Buerkle
- Ecological Society of America, Portland, OR 2012
- "Genetic constraints and community structure: Testing the concordance of trade-offs within and among species," by **AL Angert** with S Kimball, ML Peterson, TE Huxman, and DL Venable
 - "Using historical demography to investigate geographic range limits in the scarlet monkeyflower (*Mimulus cardinalis*)" by J Paul with **AL Angert**

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- "Ecological niche attributes and geographic range size in western North American *Mimulus*" by SN Sheth with **AL Angert**
- "Range-wide patterns of genetic population structure and potential geographical range shifts of *Pinus contorta* (ssp. *latifolia*, *murrayana*, *contorta*, and *bolanderi*)" by S Bisbing with D Cooper and **AL Angert**
- "Water availability, functional trait diversity, and competitive interactions in Sonoran Desert winter annuals" by JR Gremer with S Kimball, **AL Angert**, TE Huxman, and DL Venable

American Geophysical Union, San Francisco, CA 2010

- "Time scales of biogeochemical and organismal responses to individual precipitation events." by J von Fischer with **AL Angert**, D Augustine, C Brown, F Dijkstra, J Derner, R Hufbauer, N Fierer, D Milchunas, J Moore, H Steltzer, and M Wallenstein

Society for the Study of Evolution, Portland, OR 2010

- "Using historical demography to investigate geographic range limits in the scarlet monkeyflower (*Mimulus cardinalis*)" by JR Paul with **AL Angert**
- "Ecological niche attributes and geographic range size in western North American *Mimulus*" (poster) by SN Sheth with **AL Angert**

All Scientists Meeting, Long Term Ecological Research Network, Estes Park, CO 2009

- "The pulse experiment: relative timing and magnitude of response by plants, microbes and soil fauna to an experimental precipitation event on the Shortgrass Steppe LTER" (poster) by J. von Fischer with **AL Angert**, D Augustine, C Brown, F Dijkstra, J Derner, N Hanan, R Hufbauer, N Fierer, D Milchunas, J Moore, H Steltzer, and M Wallenstein

Ecological Society of America, Albuquerque, NM 2009

- "Climate induced changes in plant community composition in the Sonoran Desert," by S Kimball with **AL Angert**, TE Huxman, and DL Venable

American Geophysical Union, San Francisco, CA 2009

- "Climate induced changes in plant community composition in the Sonoran Desert" (poster) by S Kimball with **AL Angert**, TE Huxman, and DL Venable

Ecological Society of America, Milwaukee, WI 2008

- "Functional trade-offs promote species coexistence via the storage effect" by **AL Angert** with TE Huxman, P Chesson, and DL Venable
- "Phenological differences promote coexistence in Sonoran Desert Winter Annuals" by S Kimball with **AL Angert**, TE Huxman, and DL Venable

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- Ecological Society of America, Memphis, TN 2006
- "Functional trait variation and differential responsiveness to precipitation in a guild of Sonoran Desert winter annuals" by **AL Angert** with G Barron-Gafford, K Gerst, TE Huxman, and DL Venable
- Society for the Study of Evolution, Fort Collins, CO 2004
- "The evolution of geographic range limits in monkeyflowers" by **AL Angert**
- Ecological Society of America, Savannah, GA 2003
- "Adaptation at geographic range limits of monkeyflowers (*Mimulus cardinalis* and *M. lewisii*)" by **AL Angert**
- Midwest Ecology and Evolution Conference, Akron, OH 2003
- "Adaptation at geographic range limits of monkeyflowers (*Mimulus cardinalis* and *M. lewisii*)" by **AL Angert**
- Plant Speciation Symposium, Plant Canada Meeting, Antigonish, NS 2003
- "Mechanisms of ecogeographic isolation between *Mimulus cardinalis* and *M. lewisii*" (poster) by **AL Angert** with DW Schemske

Workshops and working groups

- Participant, CIEE working group, Vancouver, BC 2018
Effects of Evolution on the Predictability of Range Expansion
- Participant, AnDINa 4 working group, Bariloche, Argentina 2018
Species Range Shifts and Local Adaptation
- Participant, UBC Biodiversity Catalysis working group, Vancouver, BC 2017
Wildcards in Biotic Responses to Climate Change
- Participant, CIEE working group, Regina, SK 2014
Canada's Phylogenetic Diversity in a Changing World
- Organizer and participant, workshop, Vancouver, BC 2014
Species Distribution Modeling Using R by T. Edwards
- Co-organizer, NSF-funded workshop, Cary Institute, NY 2012
Climate Change and Species Interactions: Ways Forward
- Participant, iPlant Collaborative, Las Vegas, NV 2010
Plant Adaptation Working Group
- Participant, NCEAS/NESCent working group, Santa Barbara and Durham 2007 – 2009
Mechanistic Distribution Models: Energetics, Fitness, and Population Dynamics

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Participant, iPlant Collaborative, Cold Spring Harbor, NY Introductory meeting	2008
Participant, graduate workshop, East Lansing, MI Scientific Teaching in Plant Biology by D. Ebert-May	2004 – 2005
Participant, graduate workshop, Kellogg Biological Station, MI Matrix Population Modeling by C. Horvitz	2002
Participant, OTS graduate course, Costa Rica Tropical Biology: An Ecological Perspective"	1998

Teaching

University of British Columbia

Advanced Ecology, BIOL 306 (co-instructor)	2014 – 2017
Plant Ecology, BIOL 406	2012 – present
Graduate Population Ecology, BIOL 548m	2015 – present
Graduate Presentations, BOTA 501	2016 – present

Colorado State University

Plant Ecology, BZ 450	2010 – 2012
Molecular Ecology, BZ 425/525 (co-instructor)	2010 – 2012
Biology of Organisms, LIFE 103 (co-instructor)	2009 – 2011

University service

University of British Columbia

Co-chair, Ecologist Search Committee, Depts. of Botany and Zoology	2016 – 2017
Member, Head Search Committee, Department of Botany	2016
Member, Evolutionary Biologist Search Committee, Dept. of Zoology	2015 – 2016
Member, Affiliated Fellowship Adjudication Committee, Office of the Dean	2016, 2017
Member, TA/Scholarships/Awards Committee, Department of Botany	2014 – present
University Examiner (~2-3 theses/year)	2012 – present
Member, Website Advisory Committee, Department of Botany	2014
Member, BRITE Awards Committee, Biodiversity Research Centre	2014
Member, Postdoc Selection Committee, Biodiversity Research Centre	2014

Colorado State University

Member, Executive Committee, Plant Molecular Biology Program	2010 – 2012
Member, Ecologist Search Committee, Department of Biology	2010 – 2011

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Member, Graduate Committee, Department of Biology 2008 – 2010

Professional service

Council Member, Society for the Study of Evolution 2017 – 2019
Associate Editor, *American Naturalist* 2018 – present
Associate Editor, *Evolution* 2015 – 2017
Associate Editor, *Ecology Letters* 2014 – present
Member, selection committee for Editor-in-Chief of *The American Naturalist* 2016
External Examiner, University of Queensland 2015, 2016
Graduate Student Mentor, Gordon Research Conference 2014
Associate Editor, *Botany* 2013 – 2014
Chair, Plant Population Ecology Section, Ecological Society of America 2011 – 2013
Vice-Chair, Plant Population Ecology Section, Ecological Society of America 2010
Panelist, NSF Dimensions of Biodiversity Panel 2010
Panelist, NSF Population and Evolutionary Processes DDIG Panel 2009
Panelist, Committee for IT Development, American Society of Plant Biologists 2008
Judge, Hamilton Award competition, Society for the Study of Evolution 2008, 2010
Ad hoc proposal reviewer 2007 – present
National Science Foundation, Austrian National Science
Foundation, USGS Climate Change and Wildlife Research
Center, Natural Sciences and Engineering Research Council,
Netherlands Council for the Earth and Life sciences
Ad hoc manuscript reviewer 2005 – present
Acta Oecologia, American Journal of Botany, American Naturalist,
Annals of Botany, Annals of the New York Academy of Sciences,
Biology Letters, Botany, Ecography, Ecology, Ecology Letters,
Evolution, Evolutionary Applications, Functional Ecology, Global
Change Biology, Global Ecology and Biogeography, Global
Environmental Change, International Journal of Plant Sciences,
Journal of Biogeography, Journal of Ecology, Journal of the Torrey
Botanical Society, Molecular Ecology, Nature, New Phytologist,
Oecologia, Oikos, Perspectives in Plant Ecology, Evolution and
Systematics, Plant Biology, PLoS Biology, Proceedings of the
National Academy of Science, Proceedings of the Royal Society
of London Series B, Science

Professional societies

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Society for the Study of Evolution
Ecological Society of America
Botanical Society of America

Community outreach

Co-organizer, community round tables, Newhalem, WA 2016 – present
Climate change effects on plant communities of the Pacific Northwest

Café Scientifique, Vancouver, BC 2014
Public lecture: Moving up or moving out? Predicting species' distributions in a warming world

Vancouver Nature Society, Vancouver, BC 2013
Public lecture: Moving up or moving out? Predicting species' distributions in a warming world

Parks as Classroom a, Yosemite, CA 2010 – 2012
Development of teaching unit on climate change

Putnam Elementary Science Carnival, Fort Collins, CO 2009
Co-organizer, evolution activities and displays

Pusch Ridge Academy, Tucson, AZ 2006
Science fair judge
