

**Charles G. Willis**  
University of Minnesota  
515 Delaware St. SE, Minneapolis, MN  
HP (605) 553-1057  
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## EDUCATION

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<i>Duke University, Durham, NC, USA</i> Ph.D. in Biology Advisor: Dr. Kathleen Donohue	2013
<i>Harvard University, Cambridge, MA, USA</i> A.M. in Organismic and Evolutionary Biology Advisor: Dr. Charles Davis	2009
<i>University of Minnesota, Twin Cities, MN, USA</i> B.S. in Ecology, Evolution and Behavior Minor in History	2005

## APPOINTMENTS

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Education Program Specialist, University of Minnesota Department of Biology Teaching and Learning	Present
Board Member, Center for Online Biology Education Department of Biology Teaching and Learning	Present
Associate, Harvard University Department of Organismic and Evolutionary Biology, Davis Lab	2017-2018
Lecturer, University of Minnesota College of Biological Sciences	2017
NSF Postdoctoral Fellow, Harvard University Harvard University Herbaria, Davis Lab	2015-2017
Research Fellow, Harvard University Center for the Environment	2013-2015

## PUBLICATIONS

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Gallinat, A.S., Primack R.B., **Willis, C.G.**, Birgit, N., Albert-Dieter, S., Fahey, R., Whittmore, A.T., Du, Y., & Panchen, Z.A. 2018. Patterns and predictors of fleshy fruit phenology at five international botanical gardens. *Am. J. Bot.* 105: 1824-1834

Yost, J.M., Sweeney, P.W., Gilbert, E., Nelson, G., Gurlnick, R., Gallinat, A.S., Ellwood, E.R., Rossington, N., **Willis, C.G.**, Blum, S.D., Walls, R.L., Haston, E.M., Denslow, M.W., Zohner, C.M., Morris, A.B., Stucky, B.J., Carter, J.R., Baxter, D.G., Bolmgren, K., Denny, E.G., Dean, E., Davis, C.C., Mishler, B.D., Soltis, P.S., & Mazer, S.J. 2018. Digitization protocol for scoring reproductive phenology from herbarium specimens of seed plants. *App. Plant Sci.* 6: e1022

Gallinat, A.S., Russo, L., Melaas, E.K., **Willis, C.G.**, & Primack R.B. 2018. Herbarium specimens show patterns of fruiting phenology in native and invasive plant species across New England. *Am. J. Bot.* 105: 31-41

**Willis, C.G.** 2018. Review: *The New Ecology* by Oswald J. Schmitz. *Q. Rev. Biol.* 93: 25.

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Daru, B.H., Park, D.S., Primack, R.B., **Willis, C.G.**, Barrington, D.S., Whitfeld, T.J.S., Seidler, T.G., Sweeney, P.W., Foster, D.R., Ellison, A.M., & Davis, C.C. 2018. Widespread sampling biases in herbaria revealed from large-scale digitization. *New Phytol.* 217: 39-955.

Williams, A., **Willis, C.G.**, Davis, C.C., Goh, J., Ellison, A.M., & Law, E. 2017. *Déjà vu*: Characterizing worker quality using task consistency. In *AAAI Conference on Human Computation and Crowdsourcing*, Quebec City, Canada.

Zhang, C., **Willis, C.G.**, Klein, J.A., Ma, Z., Li, J., Zhou, H. and Zhao, X. 2017. Recovery of plant species diversity during long-term experimental warming of a species-rich alpine meadow community on the Qinghai-Tibet plateau. *Biol. Conserv.* 213A: 218-224.

Du, Y., Chen, J., **Willis, C.G.**, Zhou, Z., T. Liu, W. Dai, Y. Zhao, and K. Ma. 2017. Phylogenetic conservatism and trait correlates of spring phenological responses to climate change in northeast China. *Ecol. Evol.* 7: 6747-6757.

**Willis, C.G.**, Ellwood, L., Primack, R.B., Davis, C.C., Yost, J.M., Mazer, S.J., Nelson, G., Sparks, T.H., Gallinat, A., Stanley, K., Rossington, N.L., & Soltis, P.S. 2017. Old plants, new tricks: phenological research using herbarium specimens. *Trends Ecol. Evol.* 99: 1263-1275.

**Willis, C.G.**, Law, E., Williams, A.C., Franzone, B.F., Bernardos, R., Bruno, L., Hopkins, C., Schorn, C., Weber, E., Park, D.S., & Davis, C.C. 2017. *CrowdCurio*: an online crowdsourcing platform to facilitate climate change studies using herbarium specimens. *New Phytol.* 215:479-488.

Rubio de Casas, R., **Willis, C.G.**, Pearse, W.D., Baskin, C.C., Baskin, J.M., and Cavender-Bares, J. 2017. Global biogeography of seed dormancy is determined by seasonality and seed size: a case study in the legumes. *New Phytol.* 214:1527-1536.

**Willis, C.G.** & Donohue, K. 2017. The evolution of intrinsic reproductive isolation in the genus *Cakile* (Brassicaceae). *J. Evol. Biol.* 30: 361–376.

Davis, C.C., **Willis, C.G.**, Connolly, B., Kelly, C. & Ellison, A.M. 2015. Herbarium records are reliable sources of phenological change driven by climate and provide novel insights into species' phenological cueing mechanisms. *Am. J. Bot.* 102: 1599-1609.

**Willis, C.G.** and C.C. Davis. 2015. Rethinking migration. *Science.* 348: 766.

**Willis, C.G.**, B.F. Franzone, Z. Xi, and C.C. Davis. 2014. The establishment of Central American migratory corridors and the biogeographic origins of seasonally dry tropical forests in Mexico. *Front. Genet.* 5: 433.

**Willis, C.G.**, J.C. Hall, R. Rubio de Casas, T.Y. Wang, and K. Donohue. 2014. Diversification and the evolution of dispersal ability in the tribe Brassiceae (Brassicaceae). *Ann. Bot.* 114: 1675-1686.

Zhang, C., **C.G. Willis**, L.T. Burghardt, W. Qi, K. Liu, P.R. Moura Souza-Filho, Z. Ma, G. Du. 2014. The community-level effect of light on germination timing in relation to seed mass: a source of regeneration niche differentiation. *New Phytol.* 204: 496–506.

Panchen, Z.A., R.B. Primack, B. Nordt, E.R. Ellwood, A.D. Stevens, S.S. Renner, **C.G. Willis**, R. Fahey, A. Whittemore, Y. Du, and C.C. Davis. 2014. Leaf out times of temperate

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woody plants are related to phylogeny, deciduousness, growth habit and wood anatomy. *New Phytol.* 203: 1208-1219.

**Willis, C.G.** and C.C. Davis. 2014. Reply to Angelo: Climate change and species loss in Thoreau's woods (Concord, Massachusetts, USA). *Phytoneuron.* 9: 1-4.

**Willis, C.G.**, C.C. Baskin, J.M. Baskin, J.R. Auld, D.L. Venable, J. Cavender-Bares, K. Donohue, R. Rubio de Casas, and The NESCent Germination Working Group. 2014. The evolution of seed dormancy: Environmental cues, evolutionary hubs, and diversification of the seed plants. *New Phytol.* 203: 300-309.

**Willis, C.G.** 2013. The role of dispersal and adaptive divergence in the diversification and speciation of the tribe Brassiceae and genus *Cakile*. Ph.D. dissertation, Duke University.

Wolkovich, E.M., T.J. Davies, H. Schaefer, E.E. Cleland, B.I. Cook, S.E. Travers, **C.G. Willis**, and C.C. Davis. 2013. Temperature-dependent shifts in phenology contribute to the success of exotic species with climate change. *Am. J. Bot.* 100: 1412-1424.

Schneider, B., M. Tobiasz, **C.G. Willis**, C. Shen. 2012. WALDEN: multi-surface multi-touch simulation of climate change and species loss in Thoreau's woods. *Proc. ACM ITS.* 387-390.

Rubio de Casas, R., K. Donohue, and **C.G. Willis**. 2012. Plant dispersal phenotypes: a seed perspective of maternal habitat selection. In J. Clobert, M. Baguette, T.G. Benton, and J.M. Bullock, eds. *Dispersal Ecology and Evolution*. Oxford University Press. 171-180.

Donohue, K., R. Rubio de Casas, L. Burghardt, K. Kovach, and **C.G. Willis**. Germination, postgermination adaptation, and species ecological ranges. *Ann. Rev. Ecol. Evol. Syst.* 41:293-319.

**Willis, C.G.**, B.R. Ruhfel, B.R. Primack, A.J. Miller-Rushing, J.B. Losos, and C.C. Davis. 2010. Favorable climate change response explains non-native species' success in Thoreau's woods. *PLoS One.* 5:e8878.

Davis, C.C., **C.G. Willis**, B.R. Primack and A.J. Miller-Rushing. 2010. The importance of phylogeny to the study of phenological response to global climate change. *Philos. T. Roy. Soc. B.* 365:3201-3213.

**Willis, C.G.**, M.T. Brock, and C. Weinig. 2010. Genetic variation in tolerance of competition and neighbour suppression in *Arabidopsis thaliana*. *J. Evol. Biol.* 23:1412-1424.

**Willis, C.G.**, J. Cavender-Bares, M. Halina, C. Lehman, P.B. Reich, A. Keen and S. McCarthy. 2010. Phylogenetic community structure in Minnesota oak savanna is influenced by spatial extent and environmental variation. *Ecography.* 33:565-577.

**Willis, C.G.**, B.R. Ruhfel, B.R. Primack, A.J. Miller-Rushing, and C.C. Davis. 2009. Reply to McDonald et al.: Climate change, not deer herbivore, has shaped species decline in Concord, Massachusetts. *Proc. Natl. Acad. Sci. USA.* 106:E29.

**Willis, C.G.**, B.R. Ruhfel, B.R. Primack, A.J. Miller-Rushing and C.C. Davis. 2008. Phylogenetic patterns of species loss in Thoreau's woods are driven by climate change. *Proc. Natl. Acad. Sci. USA.* 105:17029-17033.

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Weinig, C., J. Johnston, **C.G. Willis** and J. N. Maloof. 2007. Antagonistic multilevel selection on size and architecture in variable density settings. *Evolution*. 61:58–67.

#### **AWARDS AND GRANTS**

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Teaching Innovation Grant, University of Minnesota	2018
Amazon Web Services Cloud Credit for Research Award	2016
XSEDE Research Allocation	2016
Harold Sanford Perry Prize for best thesis research in the Plant Sciences at Duke University	2014
NSF Doctoral Dissertation Improvement Grant	2010
Arnold Arboretum Deland Award	2009
Society for the Study of Evolution Hamilton Award: Honorable Mention	2008
American Naturalist Travel Grant	2008
Society of Systematic Biology Ernst Mayr Award Finalist	2008
NSF Graduate Research Fellowship Program: Honorable Mention	2008
David Rockefeller Center for Latin American Studies Travel Grant: Cuba	2008
David Rockefeller Center for Latin American Studies Travel Grant: Caribbean	2007
National Conference of Undergraduate Research Travel Grant	2005
University of Minnesota Undergraduate Research Opportunity Program Grant	2005
University of Minnesota Undergraduate Research Opportunity Program Grant	2004

#### **PRESENTATIONS AND POSTERS**

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1. **Willis, C.G.**, E. Law, A. Williams, D.S. Park, C.C. Davis. 2017. *CrowdCurio: an online crowdsourcing platform to facilitate climate change studies using herbarium specimens*. Botany Society of America, Ft. Worth, TX, USA (*Invited Presentation*)
2. Barnabas, D., D.S. Park, **C.G. Willis**, J. Kennedy, C.C. Davis. 2016. *Assessing fine-scale sampling bias in herbarium specimens*. Botany Society of America, Savannah, GA, USA (*Poster*)
3. **Willis, C.G.** 2016. *Crowdsourcing the collection of phenological data from digital herbaria*. Consortium of Northeastern Herbaria Meeting, Providence, RI, USA (*Invited Presentation*)
4. **Willis, C.G.** 2015. *The future impacts of climate change on the North American flora*. Joint Meeting of the American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America, Minneapolis, MN, USA (*Invited Presentation*)
5. **Willis, C.G.**; B.F. Franzone, Z. Xi; C.C. Davis. 2015. *Community assembly meets biogeography: Malpighiaceae and the origin of seasonally dry tropical forests of Mexico*. Botany Society of America, Edmonton, Alberta, Canada (*Presentation*)
6. **Willis, C.G.** 2014. *Origin of the Mexican Seasonally Dry Tropical Forest Malpighiaceae*. Harvard University Herbaria Seminar, Cambridge, MA, USA (*Invited Presentation*)
7. **Willis, C.G.** 2014. *Phylo-diversity of the North American flora*. University of Minnesota Plant Biology Seminar, Twin Cities, MN, USA (*Invited Presentation*)
8. **Willis, C.G.** 2013. *Diversification and speciation in the tribe Brassiceae and genus Cakile*. Harvard University Herbaria Seminar, Cambridge, MA, USA (*Invited Presentation*)

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9. **Willis, C.G.** 2013. *Diversification and speciation in the tribe Brassiceae and genus Cakile*. Exit Seminar, Duke University, Durham, NC, USA (*Presentation*)
10. Cavender-Bares, J., R. Rubio de Casas, **C.G. Willis**, C.C. Baskin and J.M. Baskin. 2013. *Evolutionary transitions in seed dormancy in the Legume family: Consequences for global scale plant distributions*. Ecological Society of America Conference, Minneapolis, MN, USA (*Presentation*)
11. **Willis, C.G.** and K. Donohue. 2012. *The evolution heterocarpy and climatic niche in the tribe Brassiceae*. Joint Congress of Evolutionary Biology, Ottawa ON, Canada (*Poster*)
12. Rubio de Casas, R., **C.G. Willis**, and J.E. Meireles. 2012. The evolutionary consequences of limited seed dispersal. Joint Congress of Evolutionary Biology, Ottawa ON, Canada (*Presentation*)
13. **Willis, C.G.** 2011. *The diversification of the genus Cakile (Brassicaceae)*. International Bahamas Natural History Conference, San Salvador, Bahamas (*Presentation*)
14. **Willis, C.G.**, R. Rubio de Casas, and K. Donohue. 2010. *Ecological divergence and speciation in the tribe Brassiceae*. Evolutionary Biology, Portland OR, USA (*Poster*)
15. **Willis, C.G.** 2009. *Phylogeny and phenology: Linking evolutionary history with species' response to climate change*. Duke Systematics Discussion Group, Durham, NC, USA (*Presentation*)
16. Cavender-Bares, J., **C.G. Willis**, and P.B. Reich. 2009. Phylogenetic depth of species turnover in time and space in Minnesota oak savanna communities. Ecological Society of America Conference, Albuquerque, NM, USA (*Presentation*)
17. **Willis, C.G.**, B.R Ruhfel, B.R. Primack, A.J. Miller-Rushing and C.C. Davis. 2008. *Walden lost: species extinction, phylogenetic selectivity, and climate change in Thoreau's woods*. Evolution Meeting, Minneapolis MN, USA 2008 (*Presentation*)
18. **Willis, C.G.** 2008. *The Biogeography and diversification of the sea-rocket: genus Cakile (Brassicaceae)*. Dialogo Latinoamericano, David Rockefeller Center for Latin American Studies, Harvard University, USA (*Presentation*)
19. **Willis, C.G.**, K. Donohue. 2008. *Patterns and processes of diversification in the genus Cakile (Brassicaceae)*. Harvard Plant Biology Initiative Symposium, Cambridge MA, USA (*Poster*)
20. Rubio de Casas, R., **Willis, C.G.**, Hall, J.C., Tisdale, T.C., Kramer, E.M., Donohue, K. 2008. *Drifting away: molecular and morphological evolution in Cakile (Brassicaceae)*. Annual Meeting of the Society for Molecular Biology and Evolution, Barcelona, Spain, (*Presentation*)
21. **Willis, C.G.**, B.R Ruhfel, B.R. Primack, A.J. Miller-Rushing and C.C. Davis. 2008. *Walden lost: species extinction, phylogenetic selectivity, and climate change in Thoreau's woods*. Harvard Plant Biology Initiative Symposium, Cambridge MA, USA (*Poster*)
22. **Willis, C.G.**, M.T. Brock, and C. Weinig. 2007. *Intra-specific competitive ability in Arabidopsis: internal and external factors*. Plasticity Conference, University of Connecticut, USA (*Presentation*)

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23. **Willis, C.G.**, P.B. Reich, and J. Cavender-Bares. 2007. *Phylogenetic structure of a long-term experimental community at Cedar Creek Natural History Area, Minnesota*. Harvard Plant Biology Initiative Symposium, Cambridge MA, USA (Poster)
24. **Willis, C.G.**, P.B. Reich, and J. Cavender-Bares. 2006. *Phylogenetic structure of a long-term experimental community at Cedar Creek Natural History Area, Minnesota* – Ecological Society of America Conference, Memphis TN, USA (Presentation)
25. **Willis, C.G.**, P.B. Reich, and J. Cavender-Bares. 2005. *Phylogenetic structure of natural and long-term experimental savanna communities of Minnesota*. Cedar Creek Undergraduate Research Symposium, CCNHA MN, USA (Presentation)
26. **Willis, C.G.**, M.T. Brock, and C. Weinig. 2005. *Multi-level selection in a feral population of Arabidopsis thaliana*. National Conference of Undergraduate Research, Lexington VA, USA (Presentation)
27. **Willis, C.G.**, P.B. Reich, and J. Cavender-Bares. 2005. *Phylogenetic structure of natural and long-term experimental savanna communities of Minnesota*. UMN Center for Community Genetics Symposium, Minneapolis MN, USA (Poster)
28. **Willis, C.G.**, M.T. Brock, and C. Weinig. 2005. *Multi-level selection in a feral population of Arabidopsis thaliana*. UMN Undergraduate Research Symposium, Minneapolis, MN USA (Poster)

## TEACHING & ADVISING

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### *Professional Development*

- Early Career Teaching Program, 2017-2018. Center for Educational Innovation, University of Minnesota.

### *Courses Taught*

2019

- **INSTRUCTOR**, University of Minnesota. (Spring 2019). BIOL1009 ONLINE: *General Biology*
- **INSTRUCTOR**, University of Minnesota. (Spring 2019). BIOL1001: *Introductory Biology: Evolutionary and Ecological Perspectives*
- **INSTRUCTOR**, University of Minnesota. (Spring 2019). BIOL1001 ONLINE: *Introductory Biology: Evolutionary and Ecological Perspectives*

2018

- **INSTRUCTOR**, University of Minnesota. (Fall 2018). BIOL1009 ONLINE: *General Biology*
- **INSTRUCTOR**, University of Minnesota. (Fall 2018). BIOL1001: *Introductory Biology: Evolutionary and Ecological Perspectives*
- **INSTRUCTOR**, University of Minnesota. (Fall 2018). BIOL1001 ONLINE: *Introductory Biology: Evolutionary and Ecological Perspectives*

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- **INSTRUCTOR**, University of Minnesota. *Nature of Life*, College of Biological Sciences freshman introduction series
  - **INSTRUCTOR**, University of Minnesota. (Summer 2018). BIOL1009 ONLINE: *General Biology*
  - **INSTRUCTOR**, University of Minnesota. (Summer 2018). BIOL1001 ONLINE: *Introductory Biology: Evolutionary and Ecological Perspectives*
  - **INSTRUCTOR**, University of Minnesota. (Spring 2018). BIOL1009 ONLINE: *General Biology*
  - **INSTRUCTOR**, University of Minnesota. (Spring 2018). BIOL1001: *Introductory Biology: Evolutionary and Ecological Perspectives*
  - **INSTRUCTOR**, University of Minnesota. (Spring 2018). BIOL1001 ONLINE: *Introductory Biology: Evolutionary and Ecological Perspectives*
- 2017
- **INSTRUCTOR**, University of Minnesota. (Fall 2017). BIOL1009 ONLINE: *General Biology*
  - **INSTRUCTOR**, University of Minnesota. (Fall 2017). BIOL1001: *Introductory Biology: Evolutionary and Ecological Perspectives*
  - **INSTRUCTOR**, University of Minnesota. (Fall 2017). BIOL1001 ONLINE: *Introductory Biology: Evolutionary and Ecological Perspectives*
  - **INSTRUCTOR**, University of Minnesota. (Spring 2017). BIOL1001: *Introductory Biology: Evolutionary and Ecological Perspectives*
  - **INSTRUCTOR**, University of Minnesota. (Spring 2017). BIOL1001 ONLINE: *Introductory Biology: Evolutionary and Ecological Perspectives*
- 2016
- **INSTRUCTOR**, Clubes de Ciencia – Mexico. (2016). *Forests of the Future*
- 2013
- **TEACHING ASSISTANT**, Duke University. (2013). BIO263W: *Organismal Response to Climate Change*
- 2012
- **COURSE PROCTER**, Duke University. (2012). BIO202: *Population Genetics*
- 2009
- **TEACHING ASSISTANT**, Duke University. (2009). BIO102: *Evolutionary Ecology*
- 2007
- **TEACHING ASSISTANT**, Harvard University. (2007). BIO64: *Feeding the World*

#### *Undergraduate Advisees*

- **Timothy Wang**, Duke University (2009-2013)  
Research assistant, independent student research credit  
Currently in medical school at Duke University
- **Wendy Yin**, Duke University (2012)  
Research assistant  
Currently in medical school at University of Miami
- **Laura Brodhead**, Duke University (2012)  
Research assistant  
Currently a forestry technician with the Bureau of Land Management

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- **Godelievre Ndunduyenge**, Harvard University (2009)  
Research assistant  
Currently a community health educator at UC San Diego
- **Justine Chow**, Harvard University (2008-2009)  
Independent research for honors thesis, research assistant  
Currently a graduate student in the Nicholas School at Duke University

#### *K-12 Advisees*

- **Kalli Bunch**, Atkins Academic & Technology High (summer 2011, 2012)  
North Carolina Project SEED student research program (two summers)  
Currently an undergraduate at UNC Chapel Hill
- **Andrew Johnson**, The Peddie School (summer 2012)  
Independent student research program
- **Jamie Sabo**, Falmouth High School (summer 2010)  
Research assistant, summer volunteer

#### *Outreach*

- **Market Science**, University of Minnesota
  - Board Member, head of curriculum development, present
  - Minnesota State Fair, St. Paul, MN, 2018 (*How do organisms live?*)
  - Midtown Farmers Market, Minneapolis, MN, 2016 (*Plants and climate change*)
  - Olmstead County Fair, Rochester, MN, 2017 (*Why do plants move?*)
  - Minnesota State Fair, St. Paul, MN, 2017 (*Why do plants move?*)
- **Murray Middle School**, St. Paul, MN, USA - Science Fair Judge (2017)
- **Clubes de Ciencia - Mexico**, Monterrey, MX (2016)
- **SALSA! NECSent Science Outreach for K-5**, EK Powe Elementary School, Durham, NC (2012)
- **North Carolina Project SEED**, Durham, NC (2011, 2012)
- **Darwin Days**, North Carolina Museum of Natural Sciences, Raleigh, NC (2011)
- **Cafe Scientifique**, Bell Museum, Minneapolis, MN (2005)

#### **SERVICE**

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**Society memberships:** Botany Society of America; The American Society of Naturalists; Society for the Study of Evolution

**Journal reviews:** *American Naturalist*; *Annals of Botany*, *Biological Invasions*; *Ecological Monographs*; *Ecology*; *Evolutionary Ecology*; *International Journal of Plant Sciences*; *Nature Climate Change*; *Proceedings of the Royal Society B: Biological Sciences*; *Taxon*

#### **Working group participation:**

- *iDigBio Phenology Herbarium Workshop* (University and Jepson Herbaria, University of California, Berkeley, 2016)
- *Germination, Trait Coevolution, and Niche Limits in Changing Environments* (NESCent, 2011-2015)
- *Population-genetic and genomic approaches for inferring species invasions and range expansion* (NIMBioS, 2013)