

Department of Integrative Biology and
University and Jepson Herbaria
University of California – Berkeley
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Education

Ph.D. Integrative Biology, University of California, Berkeley (expected May 2017)
Major Advisor: Bruce Baldwin

B.S. *summa cum laude*, Biology & Chemistry, University of Wisconsin–Eau Claire (2012)

Publications

Refereed Articles:

- Accepted* **Schneider, AC.** The resurrection of the genus *Aphyllon* for New World broomrapes (*Orobanche* s.l., Orobanchaceae). *Phytokeys*.
- 2016 **Schneider AC,** Colwell AEL, Schneweiss GM, Baldwin BG. Cryptic host-specific diversity among western hemisphere broomrapes (*Orobanche* s.l., Orobanchaceae) *Annals of Botany* 118: 1101–1111.
- 2016 Kulhanek KA, Ponisio LC, **Schneider AC,** Walsh RE. Strategic conversation: Mission and relevance of national parks. In Beissinger SR, Ackerly DD, Dormus H, Machelis GE, *Science, Conversation, and National Parks*. University of Chicago Press.
- 2016 **Schneider AC,** Freyman WA, Guilliams CM, Springer YP, Baldwin BG. Pleistocene radiation of the serpentine-adapted genus *Hesperolinon* and other divergence times in Linaceae (Malpighiales). *American Journal of Botany* 102: 221–232.
- 2014 **Schneider AC,** Lee TD, Kreiser MA, Nelson GT. 2014. Comparative and interactive effects of reduced precipitation frequency and volume on growth and function of two grassland perennials. *International Journal of Plant Sciences*. 175: 702–712.
- 2014 Rapacciolo G, Maher SP, **Schneider AC,** Ackerly DD, Hammond TT, Jabis MD, Walden GK, Walsh R, Iknayan KJ, Oldfather MF, Bessinger SR. Beyond a warming fingerprint: Individualistic biogeographic responses to heterogeneous climate change in California. *Global Change Biology* 20:2841–2855.

Floristic Treatments:

Accepted **Schneider AC.** *Linum*. In *Jepson eFlora*, <http://ucjeps.berkeley.edu/eflora/> (Jepson Flora Project, eds.)

Book Reviews:

- 2015 **Schneider AC.** Review of M. Ritter *A Californian's guide to the trees among us*. Heyday Books, Berkeley CA. *Plant Science Bulletin* 61:113–114.
- 2014 **Schneider AC.** Does spring feel a little early this year? Review of RB Primack, *Walden Warming: Climate change comes to Concord*. University of Chicago Press. *Science* 345: 737–738.

Manuscripts in review:

Schneider, AC. Flowering time evolution is independent of serpentine tolerance in the California Flora. *Ecology*.

Colwell AEL, Watson KC, **Schneider, AC.** A new species of *Aphyllon* (Orobanchaceae) parasitic on *Galium* in the western USA. *Madroño*.

Fellowships and GrantsFellowships:

2012-2016 Berkeley Graduate Fellowship

2010-2011 Blugold Fellowship (Univ. Wisconsin–Eau Claire)

Research Grants:

2016 National Science Foundation, Doctoral Dissertation Improvement Grant (\$20,344)

2016 California Native Plant Society, East Bay Chapter. "Molecular systematics and evolution of *Arceuthobium* (Viscaceae)" (\$955)

2016 Larry Heckard Memorial Fund, Jepson Herbarium. "Phylogeny and Systematics of *Perityleae* (Asteraceae)" (\$2,000)

2016 Summer Research Grant, Department of Integrative Biology, UC Berkeley (\$1,750)

2016 California Native Plant Society, Doc Burr Grant (\$945)

2014 Leeper Fund, UC Berkeley College of Letters and Science (\$1,700)

2013 California Native Plant Society, Santa Clara Valley Chapter (\$1,500)

2013-2016 Integrative Biology Department, GRAC (\$1200; \$300 x 4)

2013 Larry Heckard Memorial Fund, Jepson Herbarium. "Systematics and Host Relationships of *Orobanche* sect. *Myzorrhiza* (Orobanchaceae)" (\$3,500)

2013 Larry Heckard Memorial Fund, Jepson Herbarium "Molecular Systematics and Taxonomy of *Hesperolinon* (Linaceae)" (\$3,300)

Teaching Preparation and Experience

Certificate of Teaching and Learning in Higher Education (UC Berkeley Graduate Division)—*May 2015*

Courses Taught:University of California, Berkeley*Lower Division:*

Climate Change and the Future of California Fall 2016

Intro. Biology (for majors, Ecology/Evolution/Biodiversity) Spring 2017

Upper Division (sole instructor for lab and field sections)

California Plant Life Spring 2013, Spring 2015

Medical Ethnobotany Fall 2013, 2014; Summer 2014

Plant Systematics Spring 2014

University of Wisconsin–Eau Claire

Essentials of Cell Biology and Genetics
(Lab Assistant only)

Spring 2011

Presentations and ConferencesInvited Symposia talks:

- 2016 **Schneider AC.** The use of herbaria to detect cryptic speciation: A case study in *Orobanche* (Orobanchaceae). Botany!
- 2016 **Schneider AC,** Guilliams CM, Freyman WA, Springer YP, Baldwin BG. Rapid radiation of *Hesperolinon*, a serpentine specialist. Northern California Botanists Symposium.

Contributed Conference presentations:

Mentored students denoted by *

- 2017 Song X*, Freyman WA, **Schneider AC,** Baldwin BG. 2017. Biogeography and chromosome evolution of flax (Linaceae). Northern California Botanists Symposium (poster)
- 2016 **Schneider AC,** Seng A*, Chun H.* 2016. Host-to-parasite horizontal gene transfer in a cryptic lineage of *Orobanche fasciculata* (Orobanchaceae). Northern California Botanists Symposium (poster)
- 2015 **Schneider, AC,** Freyman WA, Guilliams CM, Springer YP, Baldwin BG. Divergence times in Linaceae and the recent, rapid radiation of *Hesperolinon*. (a) Botany 2015: Science and Plants for People (b) 25th California Botanical Society Graduate Student Symposium
- 2014 **Schneider, AC,** Guilliams CM, Freyman WA, Springer YP, Baldwin BG. Species relationships in *Hesperolinon* (Linaceae) inferred from ITS, ETS, and chloroplast sequence data. Botany 2014: New Frontiers in Botany (poster)
- 2014 **Schneider AC,** Guilliams CM, Freyman WA, Springer YP, Baldwin BG. Species relationships in *Hesperolinon* (Linaceae) inferred from ITS and chloroplast sequence data. Northern California Botanists Symposium (poster)
- 2013 **Schneider AC,** Kreiser MA, Nelson GT, Lee TD. With changing global precipitation patterns, will the growth of prairie plants be more constrained by reduced rainfall frequency or reduced rainfall volume? Botany! 2013: Celebrating Diversity (poster)

Invited Departmental Talks:

- 2016 Biology Department, University of Wisconsin–Eau Claire
- 2016 Jepson Herbarium, University of California, Berkeley
- 2016 Department of Integrative Biology, University of California, Berkeley
- 2013 Jepson Herbarium, University of California, Berkeley

Curatorial Experience

2013-2014 Graduate Student Researcher, University of California, Berkeley

- Duties split between two projects: (1) Managing the digitization of the Reef Point Herbarium (housed at UC/JEPS), a collection of historic horticultural collections. (2) Vouchering living collections at the UC Botanical Garden at Berkeley for accession at UC/JEPS.

- 2011 Summer Intern/Curatorial Assistant, Charles Darwin Research Station, Galapagos, Ecuador
- Worked full-time in the CDRS Herbarium. Duties included specimen identification, mounting, and annotation, database entry, and occasional field collecting.

Service

Professional Service:

- Reviewing Editor, *Applications in Plant Science* (2016-present)
- Board Member, California Botanical Society (2014-present)
- Co-chair, 25th and 26th California Botanical Society Graduate Student Symposia

Departmental Service:

- Faculty Meeting Representative (2014-present)
- Graduate Admissions and Fellowship Committee (2015-16)

Mentoring and Outreach

- Primary research mentor for 5 undergraduates, including one honor's thesis student (2015-present)
- Classroom Instructor, Bay Area Science in the Schools (2012-13)
- Assistant, Jepson Herbarium Workshops "Monkeyflowers in Flux", "Asteraceae" (2013-2014)
- Expert naturalist. Golden Gate National Park Bioblitz. (2014)
- "Plant reproduction" (lecture). Oakland Unified School District Science Department summer continuing education workshop. (2013)

Professional Memberships

- American Society of Plant Taxonomists
- Botanical Society of America
- California Botanical Society
- Northern California Botanists