

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

Ph.D. Candidate, Integrative Biology
Major Advisor: Bruce Baldwin

University of California–Berkeley
Advanced to Candidacy May 2014

B.S. Biology, Chemistry
(*Summa Cum Laude*)

University of Wisconsin–Eau Claire
2012

International Student

University of Ghana–Legon
Spring 2011

Professional Appointments and Fellowships

University of California, Berkeley

Berkeley Graduate Fellow

2012–present

Graduate Student Researcher

2013–2015

Graduate Student Instructor

2013–2015

Taught laboratory, field trips, and guest lectures for:

California Plant Life (2 sem.)

Medical Ethnobotany (2 sem. + summer)

Plant Systematics (1 sem.)

Charles Darwin Research Station Herbarium, Galápagos, Ecuador

Curatorial Intern

May–Aug 2011

University of Wisconsin, Eau Claire

Blugold Fellow

2009–2011

- Planned and executed a study of plant responses to differing water regimes with Dr. Tali Lee.

Publications

In Review

Schneider A.C., W. A. Freyman, C. M. Guilliams, Y. P. Springer, B. G. Baldwin (*in review*) Pleistocene radiation of the serpentine-adapted genus *Hesperolinon* and other divergence times in Linaceae (Malpighiales). *American Journal of Botany*.

Kulhanek K.A.*, L.C. Poncio*, **A.C. Schneider***, R. E. Walsh* (*in review*) Strategic conversation: Mission and relevance of national parks. In Beissinger S.R., D.D. Ackerly, H. Dormus, G. Machelis, *Science for parks, parks for science: The next century*. University of Chicago Press.

Peer-reviewed Publications:

1. **Schneider, A.C.**, T.D. Lee, M.A. Kreiser, G.T. Nelson. **2014**. Comparative and interactive effects of reduced precipitation frequency and volume on growth and function of two grassland perennials. *Int J Plant Biol.* 175: 702-712
2. Rapacciuolo, G., S.P. Maher, **A.C. Schneider**, D.D. Ackerly, T.T. Hammond, M.D. Jabis, GK Walden, R. Walsh, K.J. Iknayan, M.F. Oldfather, S.R. Bessinger. **2014**. Beyond a warming fingerprint: Individualistic biogeographic responses to heterogeneous climate change in California. *Global Change Biology* 20:2841-2855.

Book Reviews:

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

Manuscripts in progress:

1. **Schneider, A.C.** (in prep). Flowering time evolution across species is independent of serpentine tolerance in California. *American Journal of Botany*.

*all authors share equal credit

Professional and Departmental Service

- Board Member, California Botanical Society (2014-2017)
 - Helped plan the 2015 CBS Graduate Student Symposium, attended by students from four states.
- Graduate Student Representative at Faculty Meetings (2014-present)
 - Communicated relevant decisions and discussions to Integrative Biology graduate students at UC Berkeley
 - Provides feedback of grad student opinion when solicited by the faculty.

Recent Presentations

1. **Schneider, AC**, Guilliams CM, Freyman WA, Springer YP, Baldwin BG. Species relationships in *Hesperolinon* (Linaceae) inferred from ITS, ETS, and chloroplast sequence data. Poster session presented at: *Botany 2014: New Frontiers in Botany*. 2014. 26-30 Jul; Boise, ID.
2. **Schneider, AC**, Guilliams CM, Freyman WA, Springer YP, Baldwin BG. Species relationships in *Hesperolinon* (Linaceae) inferred from ITS and chloroplast sequence data. Poster session presented at: *Northern California Botanists Symposium*. 2014. 13-14 Jan; Chico, CA.
3. **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? Poster session presented at: (a) 20th Annual University of Wisconsin-Eau Claire Student Research Day. 2012. 23-25 April; Eau Claire, WI; (b) *Botany! 2013: Celebrating Diversity*. 2013. 28-31 July; New Orleans, LA.

4. **Schneider AC**, Beaty K, Sheridan A, Freund DA. In Darwin's footsteps: surveying, documenting, and preserving biodiversity in the Galapagos Islands. Poster session presented at: 20th Annual University of Wisconsin-Eau Claire Student Research Day. 2012. 23-25 April; Eau Claire, WI.
5. Kreiser MA, Nelson GT, **Schneider AC**, Lee TD. Are stimulating effects of elevated CO₂ on plant physiology counteracted by the reduced light and/or water availabilities commonly associated with global change? Poster session presented at: 20th Annual University of Wisconsin-Eau Claire Student Research Day. 2012. 23-25 April; Eau Claire, WI.
6. Bronshteyn DA, **Schneider AC**, Boulter JE. New analytical method for identifying atmospheric carbonyls using HPLC-TOF/MS. Poster session presented at: 20th Annual University of Wisconsin-Eau Claire Student Research Day. 2012. 23-25 April; Eau Claire, WI.

Grants Funded

1. Leeper Fund, UC Berkeley College of Letters and Science (\$1,700)
2. California Native Plant Society, Santa Clara Valley Chapter (\$1,500)
3. Integrative Biology Department, GRAC (\$1200; \$300 renewed 4x)
4. Larry Heckard Memorial Fund, Jepson Herbarium. "Systematics and Host Relationships of *Orobanche* sect. *Myzorrhiza* (Orobanchaceae)" 2013. (\$3,500)
5. GRAC, Integrative Biology Department, UC Berkeley (\$300)
6. Larry Heckard Memorial Fund, Jepson Herbarium "Molecular Systematics and Taxonomy of *Hesperolinon* (Linaceae)" 2013. (\$3,300)

Travel Grants:

7. Univ. California, Berkeley Graduate Division. 2015 (\$900)
8. Integrative Biology Department, GRAC. 2015. (\$250)
9. American Society of Plant Taxonomy 2015. (\$100)
10. Integrative Biology Department, GRAC. 2014. (\$250)
11. Southern California Botanists 2014. (\$100)
12. Integrative Biology Department, GRAC, 2013. (\$250)
13. American Society of Plant Taxonomy 2013. (\$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

IB 102LF – California Plant Life	Spring 2013, Spring 2015
IB 117LF – Medical Ethnobotany	Fall 2013, 2014; Summer 2014
IB 168L – Plant Systematics	Spring 2014

University of Wisconsin-Eau Claire

Essentials of Cell Biology and Genetics (<i>Lab Assistant only</i>)	Spring 2011
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Outreach

- Classroom Instructor, Bay Area Science in the Schools (2012-13)
- Assistant, Jepson Herbarium Workshop. "Monkeyflowers in Flux" 13-16 June 2013; "Asteraceae" 2-4 May 2014.
- Expert naturalist. Golden Gate National Park Bioblitz. 28-29 March 2014.
- "Plant reproduction" (lecture). 19 Jun 2013. Oakland Unified School District Science Department summer continuing education workshop.
- Boy Scouts of America Merit Badge Counselor (Environmental Science)

Selected Awards and Honors

- *Honorable Mention, NSF Graduate Research Fellowship Program* (2013 and 2014)
- *3rd Place Poster, Earth and Life Sciences*. Schneider, AC, Kreiser, MA, Nelson, GT, Lee, TD. UWEC Student Research Day. 23-25 April, 2012
- *UWEC College of Arts and Sciences Outstanding Undergraduate* (2012)
- *UWEC Outstanding Senior in Biology* (2012)
- *Honorable Mention, Barry Goldwater Scholarship* (2011)
- *ACS Central Wisconsin Section Student of the Year* (2011)
- *ACS Chapter Analytical Chemistry Student of the Year* (2010)