

Jenn Weber

Assistant Professor ◦ Southeast Missouri State University ◦ Department of Biology
email: jjweber@semo.edu ◦ www.jenniferweber.org

EDUCATION & APPOINTMENTS

2016 – current	Assistant professor , Dept. of Biology, Southeast Missouri State U
2015 – 2016	Research associate , Dept. of Plant Biology, Southern Illinois U
2015	Post-doctoral teaching fellow , Dept. of Biology, Fordham U
2012 – 2014	Post-doctoral research fellow , Project Baseline: Franks lab, Fordham U
2007 – 2012	PhD in Ecology & Evolutionary Biology , University of California, Irvine
2005 – 2007	MS in Biology , East Carolina U
1999 – 2002	BS in Biology , East Carolina U

PAPERS IN PROGRESS (AVAILABLE UPON REQUEST)

Ansaldi B[‡], S Franks, **J Weber**. The influence of environmental factors on breeding system allocation at large spatial scales. *IN REVIEW*.

Berg C[‡], J Brown, **J Weber**. Advanced flowering time revealed in 153y of data across the contiguous US. *PROJECTED SUBMISSION: AUG 2018*.

Ansaldi B[‡], **J Weber**, C Goodwillie, S Franks. Low levels of inbreeding depression and enhanced fitness in cleistogamous progeny of *Triodanis perfoliata*. *PROJECTED SUBMISSION: SEPT 2018*.

PEER-REVIEWED PUBLICATIONS

20. Ansaldi B[‡], **J Weber**, S Franks. The role of phenotypic plasticity and pollination environment in the cleistogamous mixed-mating breeding system of *Triodanis perfoliata*. *PLANT BIOLOGY: IN PRESS* (doi.org/10.1111/plb.12877).
19. Goodwillie C and **J Weber** (2018). The best of both worlds? A review of delayed selfing in flowering plants. *INVITED: AMERICAN JOURNAL OF BOTANY* 105(4): 641–655.
18. Franks S, N Genovese*, M Stockdale*, **J Weber**, B Ansaldi[‡], E van Wilgenburg (2018). The effects of artificial selection for rapid cycling in *Brassica rapa* on herbivore preference and performance. *INTERNATIONAL JOURNAL OF PLANT SCIENCES* 179(3): 175–181.
17. **Weber J** (2017). The messenger matters: Pollinator functional group influences mating system dynamics. *MOLECULAR ECOLOGY* 26(16): 4113–4115.
16. Etterson J, H Schneider, N Soper Gorden, **J Weber** (2016). Evolutionary insights from studies of geographic variation: Contemporary variation and looking to the future. *AMERICAN JOURNAL OF BOTANY* 103(1): 5–9.
15. Etterson J, S Franks, S Mazer, R Shaw, N Soper Gorden, H Schneider, **J Weber**, K Winkler, A Weis (2016). Project Baseline: An unprecedented resource to study plant evolution across space and time. *AMERICAN JOURNAL OF BOTANY* 103(1): 164–173.
14. Brown J[†], **J Weber**[†], D Alvarado-Serrano[†], MJ Hickerson, S Franks, A Carnaval (2016). Predicting the genetic consequences of future climate change: the power of coupling spatial demography, the coalescent and historical landscape changes. *AMERICAN JOURNAL OF BOTANY* 103(1): 153–163.
13. Weller S, A Sakai, T Gray*, **J Weber**, O Tsyusko, C Domínguez, J Fornoni, F Molina-Freaner (2016). Variation in heterostylous breeding systems in neighboring populations of *Oxalis alpina* (Oxalidaceae). *PLANT BIOLOGY* 18(1): 104–110.
12. **Weber J**, L Vary, C Berg*, B Ansaldi[‡], S Franks (2016). How evolution occurs in a population: The pollination game. *AMERICAN BIOLOGY TEACHER* 78(2): 149–154.

PEER-REVIEWED PUBLICATIONS, *CONT.*

11. Franks S, B Perez-Sweeney, M Strahl, A Nwogrodzki, **J Weber**, R Lalchan, K Jordan, A Litt. (2015). Variation in the flowering time orthologs BrFLC and BrSoc1 in a natural population of *Brassica rapa*. PEERJ 3: 1339.
10. Weller S, A Sakai, C Lucas*, **J Weber**, C Domínguez, F Molina-Freaner (2015). Genetic basis of tristily in tetraploid populations of *Oxalis alpina* (Oxalidaceae). BOTANICAL JOURNAL OF THE LINNEAN SOCIETY 179(2): 308–318.
9. Franks S, **J Weber**, S Aitken (2014) Evolutionary and plastic responses to climate change in terrestrial plant populations. EVOLUTIONARY APPLICATIONS 7(1): 123–139.
8. **Weber J**, S Weller, A Sakai, O Tsyusko, T Glenn, C Domínguez, F Molina-Freaner, J. Fornoni, M Tran*, N Nguyen*, K Nguyen*, LK Tran*, J Greg, E Harding (2013) The role of inbreeding depression and mating system in the evolution of heterostyly. EVOLUTION 67(8): 2309–2322.
7. **Weber J**, S Weller, A Sakai, LQ Nguyen*, D Khuu* (2013) Breeding system evolution in *Oxalis alpina*: Asymmetrical expression of tristylous incompatibility. INTERNATIONAL JOURNAL OF PLANT SCIENCES 174(2):179–188.
6. **Weber J** and C Goodwillie (2013) Variation in floral longevity in the genus *Leptosiphon*: Mating system consequences. PLANT BIOLOGY 15(1): 220–225.
5. **Weber J**, S Weller, A Sakai, A Nguyen*, N Tai*, C Domínguez, and F Molina-Freaner (2012) Purging of inbreeding depression within a population of *Oxalis alpina* (Oxalidaceae). AMERICAN JOURNAL OF BOTANY 95(5): 923–932.
4. **Weber J** and C Goodwillie (2009) Evolution of the mating system in a partially self-incompatible species: reproductive assurance and pollen limitation in populations that differ in the timing of self-compatibility. INTERNATIONAL JOURNAL OF PLANT SCIENCES 170(7): 885–893.
3. **Weber J** and C Goodwillie (2007) Timing of self-compatibility, flower longevity and potential for male outcross success in *Leptosiphon jepsonii* (Polemoniaceae). AMERICAN JOURNAL OF BOTANY 94(8): 1338–1343.
2. Goodwillie C, K Partis, **J Weber** (2004) Transient self-incompatibility confers delayed selfing in *Leptosiphon jepsonii* (Polemoniaceae). INTERNATIONAL JOURNAL OF PLANT SCIENCES 165(3): 387–394.
1. Goodwillie C, M May, **J Weber**, C McKeon (2004) Convergence in the leaf shape of vines: A test of the Carolina flora using phylogenetic comparative methods. SOUTHEASTERN NATURALIST 3(2): 277–288.

*undergraduate author

‡graduate author

†equal first-authorship

FUNDING

2017– 2019	Internal funds for SEMO Biology Greenhouse repairs (sources: SGA, Dept. of Bio, Provost Development funds): total obtained: \$140,000
2017 & 2018	Grants & Research Funding Committee (SEMO): \$5610
2016 & 2017	Grants & Research Funding Committee (SEMO): \$5992
2017	Carrie Woodburn Johnson Endowment Fund (SEMO): \$3998.17
2017	Professional Development & Conference Travel Fund (SEMO): \$1300
2016	Faculty Mentored Student Research (SEMO): \$1000
2014	NSF REU Supplement: Procured by J. Weber: \$6,645
2014	Louis Calder Biological Field Station Outreach Grant: \$1,000
2014	Society for the Study of Evolution Outreach Grant: \$1,000

FUNDING, *CONT.*

2011 – 2012	UC President's Dissertation Year Award: \$26,000
2011 – 2012	Graduate Dean's Dissertation Fellowship: <i>declined</i>
2010 – 2011	Graduate Assistance in Areas of National Need Fellow: \$50,000
2009 – 2010	Graduate Assistance in Areas of National Need Fellow: \$50,000
2009	Federal Work Study Award: \$10,000
2008	Brython Davis Fellowship: \$5,000
2006	Sigma Xi Grants-in-Aid of Research: \$450

SIGNIFICANT ATTEMPTS

2015, 2016, 2017 **NSF Pre-proposal:** (PIs: N Cellinese; C Goodwillie; R Haberle; **J Weber**)

INVITED PRESENTATIONS

- 2016 **Weber J.** *Murray State University, KY.*
- 2015 **Weber J** and J Brown. *St. Paul's High School, Concord, NH.*
- 2014 **Weber J.** *Dept. of Biology, Vassar College, Poughkeepsie, NY.*
- 2013 **Weber J.** *Dept. of Biology, Fordham University, Bronx, NY.*
- 2013 **Weber J,** S Franks, J Etterson, S Mazer. *Claytor Nature Study Center, Bedford, VA.*
- 2013 **Weber J,** S Franks, et al. *Kathleen Donohue Lab, Duke University, Durham, NC.*
- 2013 **Weber J,** S Weller, A Sakai. *Dept. of Ecology & Evolutionary Biology, UC San Diego, CA.*

CONFERENCE PRESENTATIONS

- 2018 Weis A, R Shaw, S Franks, N Soper-Gorden, **J Weber** et al. *Evolution*, Montpellier, France.
- 2018 Berg C[‡] and **J Weber.** *Botanical Society of America*, Rochester, MN.
- 2017 Berg C[‡] and **J Weber.** *Central Ecology & Evolution Conference*, Stillwater, OK. (Poster)
- 2016 Goodwillie C and **J Weber.** *Botanical Society of America*, Savannah, GA.
- 2016 Ansaldo B[‡], S Franks, **J Weber.** *Botanical Society of America*, Savannah, GA. (Poster)
- 2015 Etterson, J, S Franks, S mazer, N Soper-Gorden, H Schneider, **J Weber**, et al. *ESA*, Baltimore, MD.
- 2015 Franks, S, **J Weber**, N O'Hara. *Ecological Society of America*, Baltimore, MD.
- 2015 Ansaldo B[‡], S Franks, **J Weber.** *Ecological Society of America*, Baltimore, MD. (Poster)
- 2014 Ansaldo B[‡], **J Weber**, S Franks. *Evolution*, Raleigh NC.
- 2014 **Weber J,** H Schneider, N Soper-Gorden. *Botanical Society of America*, Boise, ID.
- 2014 Crowl A[‡], L Nhon, M Guilhem, R Haberle, **J Weber**, N Cellinese. *BSA*, Boise, ID. (Poster)
- 2014 **Weber J,** N Genovese, M Stockdale, B Ansaldo, S Franks, E van Wilgenburg. *Evolution*, Raleigh, NC.
- 2013 **Weber J,** J Brown, S Franks. *Evolution*, Snowbird, UT. (Poster)
- 2010 **Weber J,** S Weller, A Sakai. *Grad Student Symposium, UC, Irvine, CA.*
- 2008 **Weber J,** S Weller, A Sakai, C Domínguez, F Molina-Freaner, J Fornoni. *Evolution*, Minneapolis, MN.
- 2007 **Weber J** and C Goodwillie. *Assoc of Southeastern Biologists Annual Meeting*, Charleston, SC.
- 2006 **Weber J** and C Goodwillie. *SE Ecology, Pop Genetics & Evo Conf*, Greensboro, NC.
- 2006 **Weber J** and C Goodwillie. *Evolution*, Stony Brook, NY. (Poster)
- 2006 **Weber J** and C Goodwillie. *Southeastern Eco & Evo Conf*, Tuscaloosa, AL.
- 2005 Goodwillie C, **J Weber**, J Ness. *SE Ecology, Pop Genetics & Evo Conf*, Henderson, TN. (Poster)

*undergraduate author

‡graduate author

GRADUATE MENTORING

Colette Berg MNS *in progress*: Southeast Missouri State U (*projected graduation Fall 2018*)

Thesis: Phenological and genetic variation in *Triodanis perfoliata* across space and time

Grants: Garden Club of America \$2000; Travel award \$900

Beth Ansaldi PhD, 2016: Fordham U (co-advised w S Franks)

Thesis: The ecological & evolutionary consequences of cleistogamy in *Triodanis perfoliata*

Grants: Prof Development \$445; Calder Grad Research \$708 & \$361; Womensphere Summit \$250

Current position: Project Analyst at Emergent BioSolutions

UNDERGRADUATE MENTORING: *PARTICIPATED IN INDEPENDENT RESEARCH*

Cody Bohnert (SEMO), Mannelle Morehouse (SEMO), Naomi Burr (SEMO), Jason Vernon (SEMO), Lexie Stacey (SEMO), Erin Cordell (SEMO), Taylor Batson (FU), Colette Berg* (FU), Kyle Clonan (FU), Lauren Kawulicz (FU), Mohammad Khan (FU), Dominick Congiusta (FU), Kevin Lee (Vassar College), Gabriel Diaz (FU), Diana Shao (FU), Marisa Stockdale* (FU), Nick Genovese* (FU), Mike Tran* (UCI), Nhu Nguyen* (UCI), Karen Nguyen* (UCI), Annie Nguyen* (UCI), Nguyen Tai* (UCI), Michelle Nguyen (UCI), Lien-Khuong Tran* (UCI), Long-Quan Nguyen* (UCI), Diana Khuu* (UCI), Dana Clifford (UCI), Teresa Gray* (UCI), Mary Catherine Knight (ECU)

*co-authored a peer-reviewed paper

TEACHING EXPERIENCE

ASSISTANT PROFESSOR

Ecology & Evolution	Fall 2018: Southeast Missouri State U
Greenhouse Diversity	Spring 2018: Southeast Missouri State U
Genetics & Lab	Spring 2018: Southeast Missouri State U
Graduate Seminar	Spring 2017: Southeast Missouri State U
Conservation Bio	Spring 2017, Spring 2018, Fall 2018: Southeast Missouri State U
Plant Biology & Lab	Fall 2016, Fall 2017, Fall 2018: Southeast Missouri State U
Plant Ecology	Fall 2017: Southeast Missouri State U
Eco/Evo Lab	Fall 2016, Spring 2017, Fall 2017: Southeast Missouri State U

LECTURER

Human Biology	Spring 2015: Fordham U
Ecology	Fall 2013: Guest lecture, Fordham U

TEACHING ASSISTANT

Physiology Lab	Winter 2011: UC Irvine
DNA to Organisms	Fall 2008: UC Irvine
Organisms to Ecosystems	Winter 2010; 2008: UC Irvine
Experimental Bio Lab	Spring 2008; Fall 2007: UC Irvine
Ecology Lab	Spring 2007; Fall 2006: East Carolina U
Field Botany Lab	Spring 2006: East Carolina U

SERVICE, COMMUNITY & OUTREACH

GREENHOUSE CURATOR

2016 – current: Manage renovations, maintenance, classroom and outreach activities in the Southeast Missouri State U Biology Greenhouses

JOURNAL EDITOR

2016 – current: Associate editor: International Journal of Plant Sciences

2016: Editor (special issue): American Journal of Botany “*Evolutionary insights from studies of geographic variation*”

REVIEWER

American Journal of Botany, International Journal of Plant Sciences, Molecular Ecology, Plant Biology, PLoS One, American Biology Teacher, AoB Plants, National Science Foundation (DEB)

BROADER IMPACTS

2017 – current **Letters to a Pre-Scientist:** Exchanged letters with aspiring young scientists (Grades K-12).

2017 **Campus visit:** Assisted in visit from local teacher and students from Prodigy Leadership Academy

2014 – 2015 **Science Activity Organizer, Rosedale Center, Bronx NYC.** Organized experiential STEM activities in the lab and field for underrepresented students (Grades 5-12).

2012 – 2015 **NY Botanical Garden Volunteer Leader, Bronx, NY.** Led volunteers in seed management for the Project Baseline seedbank; organized seminars about climate change.

2014 **Ligo Project: Art of Science, NY.** Helped coordinate science inspired art, displayed in a downtown gallery at NYC – linking art & science for the public.

2009 & 2010 **Workshop Organizer, Beckman Center, Irvine.** Designed and led workshops for school teachers at the Future of Science Workshop; activities designed for (Grades 4-5 & 9-12).

ADDITIONAL SERVICE

2017– current **Manager Dept. Biology Twitter Account, SEMO.**

2016– 2017 **Biology Dept. Seminar Series Organizer, SEMO.**

2017 **Dept. search committee (Cell & Molecular Bio), SEMO.**

2016 **Dept. committees:** Budget (chair), External Affairs, SEMO.

2015 **Dept. committees:** Library, External Affairs, SEMO.

2014 **Symposium Organizer.** Botanical Society of America, Boise, Idaho.

2011-2012 **Co-organizer.** Graduate Student Invited Speaker, UC, Irvine.

2011-2012 **Graduate Student Representative.** Seminar Committee, UC Irvine.

2011 **Science Fair Judge.** S CA Junior Science & Humanities Symposium. Irvine.

2010 **Volunteer.** Ask-a-Scientist Night, Rancho San Joaquin Middle School, Irvine.

2010 **Book-club organizer.** Eco/Evo Graduate Student Book Club, UC Irvine.

2009 **Science Fair Judge.** (Grades 6-8). Irvine Unified School District.

2009 **Graduate Student Recruitment Committee.** UC, Irvine.

2006-2007 **President: Biology Grad Student Ass.** East Carolina U

REFERENCES

Steven Franks

Relationship: Postdoctoral mentor
Title: Associate Professor
Dept. of Biology
Fordham University
Phone: (718) 817-3609
Email: franks@fordham.edu

Stephen Weller

Relationship: Doctoral co-advisor
Title: Professor
Dept. of Ecology & Evolutionary Biology
University of California, Irvine
Phone: (949) 824-6581
Email: sgweller@uci.edu

Carol Goodwillie

Relationship: Master's advisor
Title: Associate Professor
Dept. of Biology
East Carolina University
Phone: (252) 328-4225
Email: goodwilliec@ecu.edu

Ann Sakai

Relationship: Doctoral co-advisor
Title: Professor
Dept. of Ecology & Evolutionary Biology
University of California, Irvine
Phone: (949) 824-6581
Email: aksakai@uci.edu

COURSES OF INTEREST

Undergraduate: Ecology (Field/Classroom), Evolution, Genetics

Graduate/Upper Level: Advanced topics in Ecology & Evolution, Plant Mating Systems, Population Genetics, Climate Change Biology, Conservation Biology, Ecological Genetics