

MARJORIE G. WEBER

CURRICULUM VITAE (March 2018)

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CURRENT APPOINTMENT

Assistant Professor, Department of Plant Biology
Michigan State University

2016 - present

EDUCATION

Center for Population Biology Postdoctoral Fellow
University of California at Davis

September, 2014-August, 2016

PhD: Ecology & Evolutionary Biology,
Cornell University, Ithaca, NY

August, 2009 – August, 2014

Bachelor of Arts: Biology Major, *with honors*
Lewis & Clark College, Portland, OR

September, 2003 - May, 2007

PUBLICATIONS

Agrawal, A.A.; Ali, A.; Johnson, M.D.; Hastings, A.; Burge, D.; and M.G. Weber. *In press*. Toxicity of the spiny thick-foot *Pachypodium* (Apocynaceae). *New Phytologist*.

Weber, M.G., N.I. Cacho, M.J.O. Phan, C. Disbrow, S.R. Ramírez, S.Y. Strauss. **2018**. The evolution of floral signals in relation to range overlap in a clade of California Jewelflowers (*Streptanthus* s.l.). *Evolution*.

Afkhami, M., Mahler, L., Burns, J., Weber, M.G., Wojciechowski, M., Sprent, J., and S. Strauss. **2017**. Symbioses with nitrogen-fixing bacteria: Nodulation and phylogenetic data across legume genera. *Ecology*.

Mahler, L., Weber, M.G., Wagner, C. E., and T. Ingram. **2017**. Pattern and process in the comparative study of convergent evolution. *American Naturalist*. 190 (S1): S13-S28.

Weber, M.G., Wagner, C. E., Best, R.J., Harmon, L.J., and B. Matthews. **2017**. Evolution in a community context: on integrating ecological interactions into macroevolution. *Trends in Ecology and Evolution*. 32(4): 291-304.

Weber, M.G., Mitko, L., Eltz, T., and S.R. Ramírez. **2016**. Macroevolution of perfume signaling in orchid bees. *Ecology Letters*. 19 (11), 1314-1323.

Weber, M.G., and S.Y. Strauss. **2016**. *Coexistence in close relatives: Beyond competition and reproductive isolation in sister taxa*. *Annual Review of Ecology, Evolution, and Systematics*. 47 (1).

Weber, M.G., Porturas, L.D., and S.A. Taylor. **2016**. *Foliar nectar enhances plant-mite mutualisms: The effect of leaf sugar on the control of powdery mildew by domatia-inhabiting mites*. *Annals of Botany*.

LoPresti, E. and Weber M.G. **2016**. Breaking barriers in evolutionary biology: A pioneering woman in science and her early theory of plant chemical macroevolution. *The American Naturalist*. 188(2), ii-iv.

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- Mitko, L., Weber M.G., Ramírez, S.R., Hendenström, E., Wcislo, W.T., and T. Eltz. **2016**. Olfactory specialization for perfume collection in male orchid bees. *Journal of Experimental Biology*. 219: 1467-1475.
- Pokorny, T., Ramírez, S.R, Weber M.G., and T. Eltz. **2015**. Cuticular hydrocarbons as potential close range recognition cues in orchid bees. *Journal of Chemical Ecology*. 41(12), 1080-1094.
- Agrawal, A.A. and M.G. Weber, **2015**. On the study of plant defense and herbivory using comparative approaches: how important are secondary plant compounds? *Ecology Letters*. 18(10),985-991.
- Weber, M.G. and A. A. Agrawal, **2014**. Defense mutualisms enhance lineage diversification in plants. *Proceedings of the National Academy of Science*. 111(46), 16442-16447.
- Weber, M.G., and K.H. Keeler. **2013**. The phylogenetic distribution of extrafloral nectaries in plants. *Annals of Botany*. 111 (6): 1251-1261.
- Weber, M.G., Clement, W.L., Donoghue, M.J., and A.A. Agrawal. **2012**. Phylogenetic and experimental tests of interactions among mutualistic plant defense traits in *Viburnum* (Adoxaceae). *The American Naturalist* 180: 450-463.
- Weber, M.G., and A.A. Agrawal. **2012**. Phylogeny, ecology, and the coupling of comparative and experimental approaches. *Trends in Ecology and Evolution* 27: 394-403.
- Agrawal, A.A., Petschenka, G., Bingham, R.A., Weber, M.G., and S. Rasmann. **2012**. Toxic cardenolides: chemical ecology and coevolution of specialized plant-herbivore interactions. *New Phytologist* 194: 28-45.
- Dalton, C.M., Mokiao-Lee, A., Weber, M.G., Roco, C.A., Han, Z., Dudley, B., MacKenzie, R.A., and N.G. Hairston Jr. **2012**. Anthropogenic disturbance of top-down and bottom-up controls in a highly endemic tropical aquatic food web. *Oikos*. 122(5): 790-800.
- Kennedy, P.G., Higgins, L.M., Rogers, R.H., and M.G. Weber. **2011**. Colonization-competition tradeoffs as a mechanism driving successional dynamics in ectomycorrhizal fungal communities. *PLoS ONE* 6: e25126.
- Kennedy, P.G., Weber, M.G., and A.A. Bluhm. **2010**. *Frankia* bacteria in *Alnus rubra* forests: genetic diversity and determinants of assemblage structure. *Plant and Soil* 335: 479-492.
- Kennedy, P.G., Schouboe, J.L, Rogers, R.H., Weber, M.G., Nadkarni, N.M. **2010**. *Frankia* and *Alnus rubra* canopy roots: An assessment of genetic diversity, propagule availability, and effects on soil nitrogen. *Microbial Ecology* 59: 214-220.
- Kursar, T.A., Dexter, K.G., Lokvam, J, Pennington, R.T., Richardson, J.E., Weber, M.G., Murakami, E., Drake, C., McGregor, R., and P.D. Coley. **2009**. The evolution of anti-herbivore defenses and their contribution to species coexistence in the tropical tree genus *Inga*. *Proceedings of the National Academy of Science* 106: 18073-18078.

HONORS, FELLOWSHIPS, & AWARDS

Early Career Fellow, <i>Ecology Society of America</i>	2018-2023
Jasper Loftus-Hills Young Investigators Award, <i>The American Society of Naturalists</i>	2015
Center for Population Biology Postdoctoral Fellowship; <i>University of California, Davis</i>	2014-2016

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National Distinguished Dissertation Award, Cornell Nomination, Council of Graduate Schools	2015
NSF Doctoral Dissertation Improvement Grant; National Science Foundation	2012
NSF Graduate Research Fellowship; National Science Foundation	2010-2013
Ed Ricketts Best Student Talk Award, American Society of Naturalists Conference, Asilomar, CA	2014
LaMont C. Cole Award; Departmental award for best student paper, Cornell Dept. of Ecology & Evolutionary Biology	2012
Rosemary Grant Award; Society for the Study of Evolution	2010
Book Award; Departmental award for best talk by an incoming student, Cornell EEB	2010
Best Student Talk; American Arachnology Society	2008
Biology Prize; (Top dept. student honor); Dept. of Biology, Lewis & Clark College, OR	2007

COMMUNITY & PUBLIC OUTREACH

Workshop on "Contribute to Project Biodiversity: A Repository of Teaching Materials to Diversify and Humanize Introductory Biology Courses", Ecology Society of American Meeting, New Orleans	<i>Accepted for</i> 2018
Project Biodiversity, An online repository of teaching materials to highlight role-models from underrepresented groups in STEM	(Co-founder) 2018-present
Implicit Bias Workshop, MSU BEACON summit	(Co-Organizer) 2017
Workshop on "How to Cope with Failure in Science", UC Davis	(Organizer) 2016
Women in Science Group (WiSci), UC Davis	(Co-founder and Organizer) 2015-2016
Expanding Your Horizons: STEM program for middle school girls, Cornell University	(Organizational Chair) Annually, 2011-2014
Mini-course on insects: Cassavant Elementary School, 1st grade	(Organizer & teacher) Annually, 2012-2014
Annual Harry W. Greene Grilled Cheese Challenge, Cornell University	(Co-Founder & Organizer) Annually, 2010-2014
Media Outreach Organizer: Frontiers symposium for women in the life sciences	2012
STEM mentor to middle school girls, Expand Your Horizons, Cornell University	2010 - 2011
Scientific American Podcast: "Arachnophilia!" AAAS Annual Meeting, Boston, MA	2008

PREVIOUS RESEARCH APPOINTMENTS

Research Technician: with Dr. Peter Kennedy, Lewis & Clark College Community dynamics of plant/fungal and plant/bacterial symbioses.	2008 – 2009
Research Technician: with Dr. Phyllis Coley & Dr. Thomas Kursar, Peru The evolutionary ecology of defense strategies in the tropical tree genus <i>Inga</i>	2007 – 2008
Research Fellow: with Dr. Greta J. Binford, Lewis & Clark College Biogeography and molecular systematics of <i>Loxosceles</i> spiders	2006 – 2007

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This is a truncated version of this C.V. from March 2018 – for a long version (including teaching, presentations, etc.), or an updated version, please email weberm11@msu.edu