

Stephanie S. Mayer

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EDUCATION:

University of California, Berkeley. Ph.D. in Botany. Robert Ornduff, thesis advisor. 1989
University of California, Davis. M.S. in Botany. 1982
Stanford University. B.S. in Biology. 1979
University of California, Davis. 1975-1977

EMPLOYMENT:

Senior Instructor, Department of Ecology and Evolutionary Biology, University of Colorado. Instructor for Plant Systematics (EBIO 4520), Plant Anatomy and Development (EBIO 4510), Plant Biodiversity and Evolution (EBIO 4500), and Mysteries of Medicinal Plants (FYSM 1000). Coordinator for plant science labs (Plant Biodiversity and Evolution, Plant Systematics, Plant Anatomy, Plants and Society and Plant EcoEoDevo). 2004-present.

Instructor, Department of Ecology and Evolutionary Biology, University of Colorado. Coordinator for plant science labs (Plant Kingdom, Plant Systematics, Plant Physiology, Plant Anatomy and Plant Morphology). 2002-2004.

Lecturer, EPO Biology, University of Colorado. Coordinator for plant science labs. 2000-2001.

Lecturer, EPO Biology Department, University of Colorado. Instructor and lab coordinator for Plant Kingdom. 1999.

Research Associate, Department of Ecology and Evolution, and Lecturer, Biological Sciences Collegiate Division, University of Chicago. Research with Deborah Charlesworth and Ellen Simms, taught Plant Structure and Function. 1994-1995.

Research Associate, Department of Ecology and Evolution, and Senior Lecturer, Biological Sciences Collegiate Division, University of Chicago. Taught Plant Structure and Function, supervised labs for undergraduate evolution and genetics courses, developed new labs. 1992-1994.

Research Associate, Department of Ecology and Evolution, and Lecturer, Biological Sciences Collegiate Division, University of Chicago. Post-doctoral research with Deborah Charlesworth; supervised labs for evolution course and developed new labs. 1989-1992.

Lecturer, U.C. Berkeley. Taught California Flora. 1989.

PUBLICATIONS:

Otter, J. S. Mayer and C. Tomaszewski. 2020. Swipe Right: A Comparison of Accuracy of Plant Identification Apps for Toxic Plants. *J. Medical Toxicology* <https://doi.org/10.1007/s13181-020-00803-6>

Mayer, S. S. and D. Charlesworth. 1996. A study of inbreeding depression in 4 populations of the California annual *Collinsia heterophylla*. *Evolution* 50:879-891.

Charlesworth, D. and S.S. Mayer. 1995. Genetic variability of plant characters in the partial inbreeder *Collinsia heterophylla* (Scrophulariaceae). *Amer. J. Botany* 82:112-120.

Mayer, S. S. and D. Charlesworth. 1992. Genetic evidence for multiple origins of dioecy in the Hawaiian shrub *Wikstroemia* (Thymelaeaceae). *Evolution* 46:207-215.

Mayer, S. S. 1991a. Artificial hybridization in Hawaiian *Wikstroemia* (Thymelaeaceae). *Amer. J. Botany* 78:122-130.

Mayer, S. S. 1991b. Morphological variation in Hawaiian *Wikstroemia* Endl. (Thymelaeaceae). *Syst. Botany* 16:693-704.

Mayer, S. S. and D. Charlesworth. 1991c. Cryptic dioecy in flowering plants: its occurrence and significance. *TREE* 6:320-325.

Mayer, S. S. 1990. The evolution of dioecy in Hawaiian *Wikstroemia* Endl. (Thymelaeaceae). *Mem. New York Bot. Garden* 55:76-82.

Farley, J. R., S. Mayer, C. J. Chandler, and I. H. Segel. 1979. ATP Sulfurylase from *Penicillium chrysogenum*: Is the internal level of the enzyme sufficient to account for the rate of sulfate utilization? *J. Bact.* 137:350-356.

INVITED SYMPOSIA:

"The evolution of cryptic dioecy in the Hawaiian shrub *Wikstroemia*." Hawaii Symposium, Society for the Study of Evolution Meeting, 1991.

"The evolution of cryptic dioecy: Does the production of pollen grains by female flowers enhance pollination in the cryptically dioecious Hawaiian shrub *Wikstroemia*?" Dioecy in the Tropics Symposium, Association for Tropical Biology, 1993.

PH.D. COMMITTEE

Jim Kemp, University of Guelph (1992).

MASTER'S THESIS COMMITTEE

Sophia Warsh, Museum Studies, University of Colorado (2018-2019)

HONORS THESIS COMMITTEES:

Jordan Tiramani, Department of Ecology and Evolutionary Biology, University of Colorado (2011-2012)

Pornsawan Pooapat, Department of Ecology and Evolutionary Biology (2012-2013)

Jessica Atha, Department of English, University of Colorado (2012-2013)

Morgan Davies, Department of English, University of Colorado (2012-2013)

Courtney Young, Department of Environmental Sciences, University of Colorado (2014-2015)

MANUSCRIPT REVIEWS

American Journal of Botany

Ecology

International Journal of Plant Sciences

UNIVERSITY SERVICE (University of Colorado)

EBIO Greenhouse Committee 2010-present

EBIO Greenhouse Manager Search Committees 2017, 2019

EBIO Merit Committee

EBIO Curriculum Committee 2014-present

EBIO Reappointment Committees for John Basey and Harrison Carpenter

EBIO URPP (Utilities Reduction Pilot Project) Committee

BFA Faculty-Student Mentor Program 2013-2015

BFA Instructor Track Faculty Affairs Committee 2017-present

Campus Sustainability Awards Committee 2015-2017

Tree Campus USA Committee 2015-present

GRANTS AND HONORS

Student Lab Fees Grants

ASSETT Grant

President's Leadership Initiative 2015-2016

National Academies Mountain West Summer Institute on Undergraduate Education in Biology 2014.

OUTREACH

BVSD Regional Science Fair Judge 2011, 2012

Volunteer in the Boulder Valley School District 2001-2015 (math, science and other activities in the classroom, Stratification Task Force)
Wildlands Restoration Volunteers 2015-present