

Lisa M. Rosenthal

PhD candidate

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Education

University of California, Davis, PhD candidate

Sep 2016–current

- NSF Graduate Fellow
- Graduate Group in Ecology, Department of Plant Pathology
- Advisor: Dave Rizzo
- Dissertation focuses on identifying diversity-associated mechanisms of disease risk

University of California, Berkeley, B.S. Molecular Environmental Biology

2009–2013

- High Distinction and Honors
- Honors advisor: Tom Bruns

Publications

Rosenthal LM, Fajardo SN, Rizzo DM. In press. “Sporulation potential of *Phytophthora ramorum* differs among common California plant species”. *Plant Disease*.

Petit E, Silver C, Cornille A, Gladieux P, **Rosenthal L**, Bruns E, Yee S, Antonovics J, Giraud T, Hood M. 2017. Co-occurrence and hybridization of anther-smut pathogens specialized on *Dianthus* hosts. *Molecular Ecology* 26:1877–1890.

Rosenthal LM, Branco S, Chung JA, Glassman SI, Liao HL, Peay KG, Smith DP, Talbot JM, Taylor JW, Vellinga EC, Vilgalys R, Bruns TD. 2017. Survey of corticioid fungi in North American pinaceous forests reveals hyperdiversity, underpopulated sequence databases, and species that are potentially ectomycorrhizal. *Mycologia* 109:115–127.

Feurtey A, Gladieux P, Snirc A, Hood M, Cornille A, **Rosenthal L**, Giraud, T. 2016. Strong phylogeographic costructure between the anther fungus and its white campion host. *New Phytologist* 212:668–679.

Waring BG, Gei MG, **Rosenthal LM**, Powers JS. 2016. Plant-mycorrhizal interactions along a gradient of soil fertility in tropical dry forest. *Journal of tropical ecology* 32:314–323.

Grants, Fellowships, & Awards

Graduate Research Fellowship, \$136,000, <i>National Science Foundation</i>	2016, 2019, 2020
Graduate Group in Ecology Fellowship, \$46,800, <i>UC Davis</i>	2017, 2018
Graduate Student Scholarship, \$1,000, <i>Northern California Botanists</i>	2018
Miller Plant Science Award, \$2,000, <i>UC Davis</i>	2018
Jastro Graduate Research Award, \$1,400, <i>UC Davis</i>	2017
Molecular Environmental Biology Major Citation Award, \$200, <i>UC Berkeley</i>	2014
Research Experience for Undergraduates Award, \$5,000, <i>National Science Foundation</i>	2013

Presentations and Posters

Rosenthal LM, Rizzo DM. 2020. "Host density and competency jointly determine the diversity-disease relationship". *Ecological Society of America*. Oral abstract accepted, declined due to experiment postponement from Covid-19.

Rosenthal LM, Fajardo SN, Rizzo DM. 2020. "Sporulation potential of *Phytophthora ramorum* differs among common California plant species". *UC Davis Ecology Graduate Symposium*. Poster.

Rosenthal LM, Fajardo SN, Rizzo DM. 2019. "Sporulation potential of *Phytophthora ramorum* differs among common California plant species". *CA Forest Pest Council Meeting*. Poster.

Teaching and Mentoring Experience

UC DAVIS TEACHING ASSISTANT

Crisis in the Environment, SAS 9

Spring 2019

Introductory Mycology, PLP 148

Fall 2017

K-12 EDUCATION

Girls Outdoor and Leadership mentor, UC Davis

2018–current

Teaching specialist, Lawrence Hall of Science, Berkeley, CA

Sep 2011–May 2012

WORKSHOPS AND SEMINARS

Data Manipulation in R, UC Davis

Feb 2020

Analysis Using Bayesian Poisson GLMMs, UC Davis

Feb 2020

R Carpentries in Ecology instructor, UC Davis

Dec 2019

Community Disease Ecology seminar co-lead, UC Davis

Apr–Jun 2018

Section leader for NSF GRFP grant writing applicants, UC Davis

Fall 2016

Mushroom Identification Workshop instructor, Hitchcock Env. Center, Amherst, MA

Sep 2015

Service and Outreach

Ecology Graduate Student Symposium keynote speaker liason, UC Davis

2020

Intercampus shuttle advocate leader, UC Davis

Fall 2019

Graduate Group in Ecology Awards committee member, UC Davis

2019

Girls Outdoor and Leadership curriculum member, UC Davis

2018, 2019

Eco/evo seminar committee member, UC Davis

2017–2019

Past Research Appointments

Laboratory research assistant, Amherst College
Amherst, MA

Mar 2015–May 2016

- Supervisor: Prof. Michael Hood
- Assisted projects addressing the evolutionary ecology of the anther smut fungal pathogen system using molecular, culture-based, greenhouse and field approaches

Field research assistant, Estación Horizontes
Liberia, Costa Rica

Jun–Oct 2014

- Supervisor: Prof. Jennifer Powers, University of Minnesota
- Supported field projects involving forest restoration, ecophysiology, decomposition, soil respiration and precipitation effects on plants

Honors student, University of California, Berkeley
Berkeley, CA

Jun 2012–May 2013 & Jan–May 2014

- Supervisor: Prof. Tom Bruns
- Investigated distribution and diversity of corticioid fungi on continental scale and published results

REU Fellow, Mountain Lake Biological Station
Pembroke, VA

May–Aug 2013

- Supervisor: Prof. Henry Wilbur, University of Virginia
- Studied population dynamics of diseased American chestnut stands with different logging treatments

Technical skills

R, Stan, Github, ArcGIS, QGIS

Multi-level statistical analyses in Bayesian framework

Culture-based methods, microscopy, enzyme assays, molecular barcoding

Taxonomic expertise in California trees and shrubs, California mushrooms, diagnosis of common forest pathogens

Wilderness First Responder and CPR certified