

Elizabeth Ann Bowman

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I. Education

PhD, Plant Pathology, University of Arizona, School of Plant Sciences, Aug. 2016 – present
Certificate in College Teaching, Office of Instruction and Assessment 2017 – present

M.S., Plant Pathology, University of Arizona, School of Plant Sciences, 2016

B.S., Botany, Oregon State University, College of Agriculture, 2014 (*summa cum laude*)

II. Appointments

2014-2017 *National Science Foundation Graduate Research Fellow*, University of Arizona

2013-2014 *Research Intern*, Mycorrhizal Lab, USFS Pacific Northwest Research Station

2013 *Undergraduate researcher*, Bot 465, Lichenology, Oregon State University

2012-2013 *Research Assistant*, Oregon Flora Project, Department of Botany and Plant Pathology, Oregon State University

III. Publications

Peer-reviewed publications

Huang Y-L, **Bowman EA**, Massimo NC, Garber NP, U'Ren JM, Sandberg DC, Arnold AE.

2017. Using collections data to infer biogeographic, environmental, and host structure in communities of endophytic fungi. *Mycologia*, in review.

Bowman, EA and Arnold AE. 2016. Ectomycorrhizal and foliar endophytic fungal communities differ in sensitivity to climate-related factors along a spatially constrained elevation gradient. *American Journal of Botany*, in press.

Fraser, SJ, **Bowman EA**, Gianopulos NG, Newcombe G. *Xanthoria parietina* in the inland Pacific Northwest. *North America Fungi*. 11 (2016): 1-12. DOI:
<http://dx.doi.org/10.2509/naf2016.011.002>

IV. Fellowships, Grants, and Awards

2017-2018 *William A. Hanacek Scholarship*, School of Plant Sciences, University of Arizona, \$12,000

2017-2018 *ARCS Foundation Award*, Bray/Kucera Scholar, University of Arizona \$10,500

2014-2017 *National Science Foundation Graduate Research Fellowship*, Climate change and fungal symbionts of *Pinus ponderosa*, \$132,000

2014 *Robert L. Gilbertson Fellow*, School of Plant Sciences, University of Arizona, \$1,000

- 2013-2014** *Registry of Distinguished Students*, College of Agricultural Sciences, Oregon State University
- 2013** *Jean Siddall Memorial Scholarship*, Department of Botany and Plant Pathology, Oregon State University, \$1,000
- 2013** *Merrill Family Foundation Scholarship*, College of Science, Oregon State University, \$2,000
- 2013** *BSA PLANTS Travel Grant*, Botanical Society of America and the National Science Foundation, \$750

V. Presentations

- 2018** **Bowman, Elizabeth A.** Sensitivity of fungal symbionts to disturbance, environmental stress, and isolation: a perspective from anciently fragmented forests (Departmental seminar). University of Arizona, School of Plant Sciences. Tucson, AZ.
- 2017** **Bowman, Elizabeth A.** and A. Elizabeth Arnold. Ectomycorrhizal and foliar endophytic fungal communities differ in sensitivity to climate-related factors along a spatially constrained elevation gradient (oral presentation). Yosemite Symbiosis Workshop, Wawona, CA.
- 2017** **Bowman, Elizabeth A.** and A. Elizabeth Arnold. Fungal symbionts of forest trees in the context of climate change (poster). College of Agricultural and Life Sciences Poster Forum, University of Arizona, Tucson, AZ.
- 2016** **Bowman, Elizabeth A.** and A. Elizabeth Arnold. Fungal symbionts of forest trees in the context of climate change (poster). Conference of the Mycological Society of America. Berkeley, CA.
- 2016** Arnold, A. Elizabeth, Jana M. U'Ren, Jolanta Miadlikoska, Ignazio Carbone, Yu-ling Huang, **Elizabeth A. Bowman**, Georgiana May, and François Lutzoni. Perspectives from leaves and lichens on the scale and distribution of the global endobiome (oral presentation). Conference of the Mycological Society of America. Berkeley, CA.
- 2016** **Bowman, Elizabeth A.** Fungal symbionts of forest trees in the context of climate change (Departmental seminar). University of Arizona, School of Plant Sciences. Tucson, AZ.

VI. Teaching

Teaching assistantships

Spring 2018 ACBS/PLS 312, Animal and Plant Genetics, Teaching assistantship

Taught weekly labs; graded homework and exams

Fall 2017 PLS 170C1, Plants and our World, Teaching assistantship

Taught lecture on Evolution and Natural Selection (1.25 hrs)

Software Carpentry and Data Carpentry

Fall 2017 R for Reproducible Scientific Analysis Workshop, a two-day intensive workshop teaching coding in R, version control with git, and reproducible research, University of Arizona

VII. Professional development

- 2018** Alan Alda science communication workshop, University of Arizona
- 2017** Graduate teaching assistantship workshop, University of Arizona
- 2017** Software and Data Carpentry Instructor Training, University of Arizona

VIII. Outreach

- 2015 - 2017** Presenter, AgDiscovery, High school students learning about agricultural research at the University of Arizona (STEM minorities)
- 2015 - 2017** Mentor, Blast, Three weeks research and biotechnology laboratory experience for high school students (41 students to date)
- 2017** Mentor for high school student, workshop on phyllosphere microbes
- 2017** Mentor for high school students conducting an experiment on seed microbes (female, minority)
- 2017** Graduate representative for the PLS Inclusive Excellence Committee
- 2016-2017** Mentor for high school student researcher, Vail Independent School District (female)
- 2016** Mentor for undergraduate researcher studying how fire affects the ectomycorrhizal community in the Santa Catalina Mountains, IOU-NA REU program (Native American)
- 2016** Mentor and Presenter, Tucson High Magnet School Microbial workshop (105 students)
- 2015** Mentor, Tucson High Magnet School, Advising high school students on science projects (female, minority)
- 2015** Mentor and Presenter, Science and Nature in Tandem for Youth (SANITY) – field experience for high school students (17 students)
- 2015** Volunteer, Tucson Festival of Books, School of Plant Sciences booth
- 2014** Volunteer, Plant Science Family Night, Ventana Vista School

IX. Professional Affiliations

- 2017-present** International Symbiosis Society
- 2013-present** The Mycological Society of America
- 2013-present** Botanical Society of America