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

2017-2018 *Teaching Assistant*, School of Plant Sciences, University of Arizona
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 press.

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*, 2018. DOI: https://doi.org/10.1002/ajb2.1072

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

2018 *Forest Fungal Ecology Award*, Mycological Society of America, $1,250
2018 *Travel award*, School of Plant Sciences, University of Arizona, $500
2017-2019 *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 forests 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

2017 - 2018 Mentor for high school student researcher, Vail Independent School District
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