FOREST BOTANY

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OBJECTIVE

Plant biology researcher specializing in crop disease resistance and soil ecology, with experience in experimental design, data analysis, and publication. Seeking to apply plant pathology expertise to advance sustainable agriculture and plant health.

EDUCATION

M.S. Plant Biology, University of California, Riverside (UCR) June 20XX

Master's Thesis: An investigative approach to disease resistance and treatment of Phytophthora sojae, Pythium spp. and Fusarium graminearum in mapped soybean populations.

B.S. Plant Biology, University of Nebraska-Lincoln (UNL) June 20XX

RESEARCH EXPERIENCE

Graduate Student Research Assistant, UCR 20XX - Present

- Supporting existing research on *Phytophthora sojae* and *Pythium spp*. Engaging in independent research on *Fusarium graminearum* in relation to soybean crops. Assisted as needed in COVID-19 efforts to develop plans to maintain specimens in the plant growth facilities, lathhouses, and on associated farmland.

Undergraduate Research Assistant, UNL 20XX - 20XX

- Supported research in the Kiesselbach Crops Research Laboratory related to how mycorrhizae affect sorghum growth during drought conditions. Collected and analyzed soil samples from agricultural fields for a 5-year study. Assisted with recreating drought and optimal sorghum growth conditions in a test lab for comparative analysis.

U.S. Forest Service Intern, UNL Career Experiences in Natural Resources Science 20XX-20XX

- In conjunction with the Charles E. Bessey Nursey, supported the U.S. Forest Service's mission to restore ecosystem health in the Midwest. Assisted in the seed-extraction process and national forest repopulation projects in the Rockies under supervision of USFS Biologist, Richard Gilbert. Occasionally participated in education and outreach efforts at the National Grasslands Visitor Center.

TEACHING EXPERIENCE

Teaching Assistant, UNL

Fundamentals of Biology, Laboratory Spring 2017

AWARDS & HONORS

E. Lucy Braun Award, Ecological Society of America, $1200 (2020) Chancellor's Fellowship, $18000 UCR (2019)

Magna Cum Laude, UNL (2019)

Student Luminary Award, UNL, $1000 (2018)

Nebraska Seed Trade Association Scholarship, $1000 (2015)

SERVICE

Botany Graduate Student Association (GSA) Officer, UCR 20XX - Present

- Acting as liaison to the Graduate Educational Advisory Committee. Managing in- person and virtual social events sponsored by both the Department and the larger GSA organization. Notifying fellow students of travel grant funding opportunities as in-person research and professional development opportunities open up with changing COVID regulations.

Intern, Center for Conservation Biology, UCR 20XX - 20XX

- Collaborated with designated center researchers on a carbon sequestration project as related to soil ecology and the impact on fungi populations. Helped close out the project for publication; additional contributions were reduced due to COVID-19 restrictions.

Mentor, Queens of STEAM, UCR 20XX- 20XX

- Mentored young women in high school in Science, Technology, Engeneering Art, and Math (STEAM). Demonstrated scientific opportunities, providing support for career exploration and aiding with college applications. Enriched STEM education at local high schools through hands-on and virtual presentations.

Volunteer, Center for Plant Science Innovation, UNL 20XX - 20XX

- Assisted with community engagement efforts alongside graduate students, postdoctoral associates and faculty members. Co-facilitated 3 sessions of informational activities for elementary school students and co-presented general public presentations on plant pathology in low-income farming communities.

INVITED TALKS

1. Dophyta P. Diurnal mycorrhizal fungi productivity in relation to carbon sequestration. Ecological Society of America Annual Meeting. August 2020. Invited virtual presentation.
2. Dophyta P. and R. Gilbert. Impact of seed extraction processes on the restoration of forests in the Rockies. University of Nebraska, Kearney, Department of Biology Seminar. April 2018. Invited oral co-presentation.

PUBLICATIONS

1. Dophyta P., F.G. Capillaceum, and G.B. Oleracea. 2021. Quantitative disease resistance in relation to Phytophthora sojae and two species of Pythium in eight soybean nested association mapping populations. Crop Science, in press.
2. A., F.G. Capillaceum, G.B. Oleracea, and P. Dophyta. 2021. Patterns of diurnal mycorrhizal fungi productivity revealed with observational carbon sequestration applications in soil ecology. New Phytologist, in press.
3. Helix, H., C.I. Araliaceae, H. Algeriensis, and P. Dophyta. 2020. Effects of mycorrhizae on sorghum growth and photosynthesis under Midwest drought conditions. Applied Soil Ecology 147, doi: 10.1016/j.apsoil.2019.103370.