Stephanie R. Karhoff

verhoff.79@osu.edu | (419)-796-0055 | 5519 Radnor Rd., Radnor, OH 43066

Professional Profile:

- Ph.D. student with in-depth knowledge in plant breeding and crop improvement.
- Possess knowledge of experimental design, breeding methods, and statistical analyses.
- Strong communication and problem-solving skills and a team player

Education:

Ph.D. in Translational Plant Sciences, *The Ohio State University* *Expected graduation: 2019*
Focus areas: plant breeding, quantitative genetics, plant pathology, biotechnology

B.S. in Agriculture, *Summa cum laude* with research distinction, *The Ohio State University*
Focus areas: agronomy and plant pathology

Research Experience:

***Graduate Fellow**, McHale Lab, The Ohio State University* *January 2015-Present*

- Studied genetic mechanisms of quantitative disease resistance to Phytophthora root rot in soybean to develop more resistant soybean varieties.

***Soybean Breeding Co-op**, Monsanto Company,* Findlay, Ohio *May-December 2014*

- Planted, collected data, and harvested over 50,000 yield trial test plots in Ohio.
- Selected lines for advancement, assisted with 50 crossing combinations, collected tissue samples and harvested 1,000 progeny rows and 125 bulk rows in breeding nursery.
- Equipment experience includes Almaco SHP 40 combine and planter.

***Undergraduate Research Asst.**, Ohio Soybean Performance Trials* *May-September 2013*

- Increased efficiency of Ohio farmers' variety selection by collecting data on nine performance trial locations across the state.

***Research Intern**, AgReliant Genetics*, Lebanon, Indiana *June-August 2012*

- Supervised team of ten seasonal employees during pollination season
- Recorded phenotypic data from corn disease trials to increase efficacy of marker-assisted selection program.

***Undergraduate Research Asst.**, Snow Lab, The Ohio State University* *April 2011-May 2014*

- Applied skills in ecology, agronomy, and biotechnology to measure gene flow in biofuel crops.
- Completed an honors thesis focusing on the reproductive ecology of *Miscanthus sinensis*

Leadership Experience:

Agronomy Module Development Team *October 2015-Present*

- Worked with a team of teachers and early-career scientists to help design a framework for K-12 teachers and students to incorporate agronomy projects into their biology curriculum.
- Mentored student research teams and promoted STEM and plant sciences.

National Association of Plant Breeders Education Committee *September 2015-Present*

- Developed educational resources for students and professionals in the field.

Weeds Judging Team *January 2015-Present*

- Competed in North Central Weed Science Society student competition
- Acquired skills in weed ID, sprayer calibration, communication, and problem-solving.

Awards and Honors:

- United Soybean Board Fellowship, *2015*
- Ohio State Board of Trustees Student Recognition Award, *2014*
- College of Food, Agricultural, and Environmental Sciences Top 20 Senior, *2014*
- American Society of Agronomy Golden Opportunity Scholar, *2013*
- National Alpha Zeta Centennial Scholar, *2013*
- Agriculture Future of America Leaders Conference Delegate, *2012-2013*