

Alexander Gresham Miller

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Campus Address

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Objective:

Seeking Lab or Research Assistant Position where I can contribute my curiosity, work ethic, as well as laboratory experience

Additional Employment:

Lab Assistant Positions at Purdue University

Horticulture lab- Dr. Krishna Nemali Horticulture Department October 2016- ongoing
West Lafayette, IN

- Performed greenhouse research to evaluate the use of cameras in determining crop progress and yield
- Collected numeric data on leaf area using multispectral imaging
- Reported the significant benefits of using cameras in greenhouse settings

Pomology lab- Dr. Peter Hirst Horticulture Department May 2016- ongoing
West Lafayette, IN

- Conducted independent research studies on physiology and anatomy of apple tree cultivars
- Collected and quantified samples from different orchards around the state Indiana
- Identified anatomical differences in bourse production unique to the Honeycrisp cultivar

Botany Lab- Dr. Nicolas Carpita Botany and Plant Pathology Department August 2015- January 2016
West Lafayette, IN

- Analyzed lignin in different corn cultivars to find highest lignin concentration for biofuel synthesis
- Obtained quantifiable data using colorimetry and spectrophotometry
- Identified and improved lignin concentration in corn stalks

Extracurricular Activities/ Purdue Leadership:

Purdue University Horticulture Club Executive board December 2014- ongoing
Purdue University Hilltop Senator August 2014-May 2015
Purdue University Botany Club 2014
Purdue University Triathlon Club 2013
Volunteered at Almost Home Humane Society 2013

Honors:

Purdue Research Grant 2015 and 2016
Hilltop Senator of the Year Award 2015
Dollars for Scholars Award 2013

Skills:

Ability to use basic lab equipment as well as some specified
Proficient with independent research tasks
Ability to make taxonomic classifications for native plant species
Confident in Microsoft office (Excel, Word, PowerPoint, and outlook)