**EDUCATION**

**University of Missouri, St. Louis**

Bachelor of Science, August 2018

Major: Biology

Emphasis: Evolution, Ecology and Conservation

Awards: Eugene J. Meehan Scholarship for Academic Excellence

**LaunchCode**

LC101, September 2019

**TECHNICAL SKILLS**

* Java
* Git
* SQL
* Python
* HTML
* CSS
* Microsoft Office: SharePoint, Outlook, Teams
* Google: Chrome OS, Google Drive, Sheets, Docs, Gmail
* SmartSheet
* Slack

**EXPERIENCE**

**Bayer Crop Science,** Chesterfield MO

*Biologist,* July 2019- Present

* Insect rearing
* Diet bioassay scoring and data entry (LIMS)
* Scoring of multiple Lepidopteran, Hemipteran, and Coleopteran species
* Close adherence to strict USDA regulated-waste containment and disposal protocols
* Solution preparation and insect egg suspension
* Multichannel pipetting (protein, diet, and insect-egg suspension overlay)
* Incubation monitoring

*Lab Technician,* Jan- July 2019

* Employed sterile technique for a majority of tasks.
* Worked as a part of a three-person team to produce large volumes of plant inoculum.
* Performed plant-pathogen culture, including bacterial and fungal culture.
* Prepared solutions and growth media including large volumes of agar plates and LB broth.
* Performed fungal spore collection, suspension, and storage.
* Prepared and infested grain media (sorghum and millet) under sterile conditions as part of a team.
* Maintained grain-media cultures during growth, drying and storage phases, including monitoring, quality control and periodic agitation.
* Performed planting and inoculation of corn and soy plants in a growth-chamber setting.
* Prepared shipping documentation for interstate inoculum shipment under USDA regulated-material guidelines.
* Closely adhered to strict USDA regulated-waste disposal requirements at all times.

**Donald Danforth Plant Science Center,** St. Louis MO

*Molecular Lab Assistant,* October 2017 – October 2018

* Employed sterile technique.
* Carried out preparatory tasks including seed germination, solution and media preparation, and plant-tissue collection and storage.
* Performed molecular tasks including CTAB DNA extraction, PCR, Qubit, and gel electrophoresis.
* Performed all steps necessary to isolate DNA from *Brachypodium* and *Sorghum,* including seed collection, propagation, vegetative tissue harvest, storage, liquid nitrogen immersion, grinding, and CTAB extraction.
* Worked extensively with *Brachypodium distachyon,* including seed sterilization, stratification, plate germination, sterile transplantation into gel medium, tissue harvest, and DNA isolation.
* Harvested seed from *Arabidopsis, Brachypodium,* and *Sorghum* including bagging, dry-down, threshing, sifting, packaging, and labeling.
* Collected phenotypic data from *Sorghum bicolor* in a greenhouse setting, including height, tiller count, and stem diameter measurements.

**REFERENCES**

**Abigail Eaker**

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**John Williams,**

*Field Manager,* Planthaven Vegetable Farm

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*Horticulturist,* Sophia M. Sachs Butterfly House

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