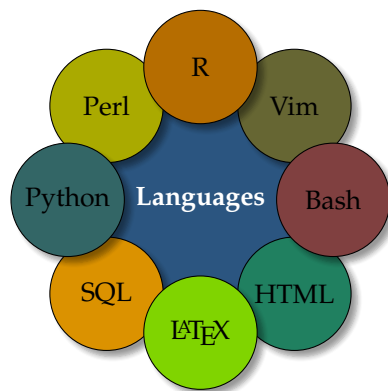


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programming



skills

Molecular Biology	Data Mining
Statistics	Microsoft Office
Laboratory Practices	Tissue Culture
Histology & Microscopy	Research

interests

Data Science
Statistics
Machine Learning
Automation
Data Visualization

Experience **Bioinformatician, Project Manager, & Technical Sales Representative** Microbial Insights, Knoxville, TN 2016—present

- Implementing automatically generated reports using R and L^AT_EX
- Optimizing data delivery to clients
- Assisting customers with molecular biological tools
- Presenting product & service information at workshops and conferences
- Maintaining and populating a MediaWiki to aid in project management and customer service

Graduate Research Assistant, Dr. Neal Stewart's Plant Biotechnology Lab University of Tennessee, Knoxville, TN 2014—2016

- Evaluated cell suspension lines for lignin formation both chemically and spectrally
- Developed methods for genetic modification and culture of monocots
- Prepared and completed a research project in accelerated tissue culture and genetic modification
- Collaborated on a novel single cell suspension and cryopreservation robotic system
- Inserted and confirmed vectors in *E. coli* and *Agrobacterium*

Laboratory Assistant, Dr. Neal Stewart's Plant Biotechnology Lab University of Tennessee, Knoxville, TN 2012 —2014

- Developed automated statistical methodology for screening of lignin content and imaging of cell characteristics both *in vivo* and *in vitro*
- Conducted wet chemistry experiments to assay lignin formation
- Complied with USDA-APHIS regulations regarding transgenic plants in the field and in the lab
- Implemented an *E. coli* bioreactor for production of recombinant proteins
- Screened progeny of transgenic plants via PCR

Lead Merchandiser Stacy's Greenhouses, York, SC 2008 —2011

- Supervised and managed other merchandiser and trained new employees
- Assisted customers with landscape designs and plant selection
- Ensured adequate inventory was displayed properly
- Provided customer service to stores and store customers

Laboratory Assistant, Dr. Paris Lambdin's Biosystematics Lab University of Tennessee, Knoxville, TN 2002 —2012

- Designed instructional modules for undergraduate and graduate level courses
- Collected samples and data from field locations
- Assisted in community outreach programs such as Bloomsdays, Buggy Buffet, and 4-H camps

Education **Master of Science in Plant Sciences —Plant Molecular Genetics** University of Tennessee — Knoxville, TN — Spring 2017 — GPA: 3.72/4.0

Bachelor of Science in Plant Sciences —Biotechnology
University of Tennessee — Knoxville, TN — Spring 2014 — GPA: 3.74/4.0
Magna Cum Laude