

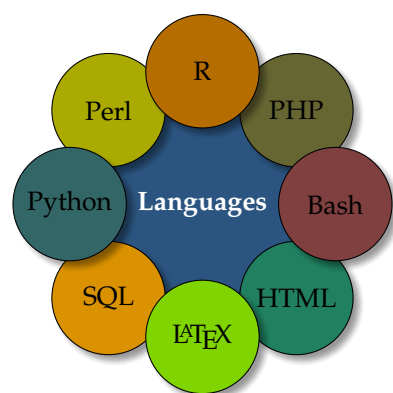
# Joshua Grant

Bioinformatician &  
Data Scientist

## contact

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## </>programming



## skills

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

## interests

Data Science	Genetics
Statistics	Microbiology
Machine Learning	
Automation	
Data Visualization	Electronics

## Experience Owner & Contractor-For-Hire

Specrabella, Knoxville, TN 2018 —present

- Designing, developing, and deploying an interactive energy informatics web application
- Consulting with clients on database and visualization needs

## Bioinformatician, Project Manager, & Technical Sales Representative

Microbial Insights, Knoxville, TN 2016 —2018

- Implementing automatically generated reports using R and L<sup>A</sup>T<sub>E</sub>X
- Administering a LAMP Stack + Shiny R Application allowing clients to retrieve more actionable data from their qPCR and CSIA
- Developing real-time customer interactions and statistical processing of their projects within the context of our database
- 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
- 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 in HTML and Flash
- 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