

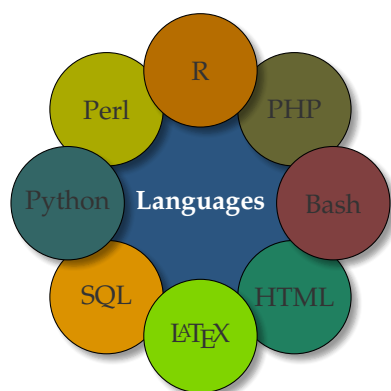
# Joshua Grant

Bioinformatician

## contact

547 Murray Drive  
Knoxville, TN 37912  
United States of America  
+1 (865) 803 3495  
jngrant9@gmail.com  
notjustadatum.blogspot.com  
github.com/sempervent

## programming



## skills

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

## interests

Data Science	Genetics
Statistics	Microbiology
Machine Learning	
Automation	
Data Visualization	

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## Experience

### Bioinformatician, Project Manager, & Technical Sales Representative

Microbial Insights, Knoxville, TN 2016—*present*

- Implementing automatically generated reports using R and  $\text{\LaTeX}$
- 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
- 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 in HTML and Flash 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

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## 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**