

Zachary Danielson

(801) 602-4584

zacdanielson32@gmail.com

1272 N Lakeview Dr, Provo, UT 84604

Education

Bachelor of Science in Genetics and Biotechnology

Expected April 2016

Brigham Young University-Provo, UT

- Emphasis in Animal Genetics
- GPA: 3.7

Associate of Science

April 2010

Utah Valley University

- GPA: 3.77

High School Graduate

May 2010

Utah County Academy of Sciences

Work Experience

Research Assistant

May 2014-August 2014

Plant Genetics Resources Unit, USDA-ARS, Geneva, NY

Gennaro Fazio

630 W. North St., Geneva, NY 14456

(315) 787 2480

- Used Geneious to analyze and map Illumina reads from 35 different apple genomes to a reference chromosome
- Utilized Genome Studios to analyze 20,000 SNP reads
- Extracted DNA and RNA samples from 200+ samples for SNP marker mapping
- Harvested tissue from 100s of apple trees to be used in sequencing, SNP mapping, and HPLC

Research Assistant

May 2010-April 2011, August 2013-April 2014

Genetics and Biotechnology Lab, BYU Provo, UT

Jeff Maughan

5144 LSB, Provo, UT 84602

(801) 422-8698

- Collected and analyzed DNA samples from grain Amaranth leaf tissue
- Researched SNP markers in Amaranth
- Planted and harvested Amaranth grain populations
- Assisted in the implementation of a hydroponic growing system for Amaranth
- Non-presenting author of poster detailing SNP mapping of grain Amaranths

Team Member

July 2013-Present

Chick-fil-a, Orem, UT

Terry Crook

484 W. Bulldog Blvd, Provo, UT 84604

(801) 374-2697

- Filled catering orders worth \$100+
- Processed weekly shipments of 200+ items
- Interacted with customers on a daily basis to provide help and service

Volunteer Representative

June 2011-July 2013

The Church of Jesus Christ of Latter-day Saints

- Lead group of 16 individuals and provided monthly training
- Provided weekly training to 8 individuals

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Skills and Awards

- Life Sciences Departmental Scholarship, 4 semesters (2013-2015)
- Brigham Young University Academic Scholarship, 2 semesters (2010-2011)
- Eagle Scout Award-Boy Scouts of America
- Fluent in Spanish
- Molecular Biology Techniques including: PCR, BigDye, DNA extraction, spectrophotometry
- Bioinformatics programs and techniques including: Geneious, Galaxy, ApE, basic skills in python and command line in Linux, C++

Relevant Courses

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|--------------------------------------|------------------------------------|
| • Organic Chemistry | • Cell Biology |
| • General Microbiology | • Genetics |
| • Science of Biology | • Mentored Lab Techniques |
| • Biological Anthropology | • Genomics |
| • Bioethics | • Introduction to Bioinformatics |
| • Molecular Biology | • Reading in Biotechnology |
| • Biochemistry | • Intro to Computer Programming |
| • Comparative Physiology and Anatomy | • Advanced Molecular Biology & Lab |
| • Technical Communication | • Mentored Research Experience |

Publications and Presentations

- Smith SM, Nielsen KE, Danielson ZS, Jellen EN, Maughan PJ (2011) Development, Characterization And Linkage Mapping Of Single Nucleotide Polymorphisms In The Grain Amaranths (*Amaranthus* spp.). Plant and Animal Genome XIX Conference, January 15-19, 2011, San Diego, CA (Poster Abstract)

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