Douglas Sherman

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EDUCATION

BS, Computer Science
University of California - Davis, Ca.   September 2015 - May 2017
Concentration: Physics   GPA 3.94

BS, Mathematics
University of California - Davis, Ca.,   September 2015 - May 2017
Concentration: Scientific and Mathematical Computation   GPA 3.94

COMPUTER SKILLS

Languages: C, C^{++}, Matlab, R, Python
Relevant Coursework: Machine Learning, Probability, Stochastic Processes, Combinatorics, Algorithm Analysis, Data Structures
Skills: Data Preprocessing and Analysis, Bayesian Inference, Multi-threaded Programming, Model/Feature Selection, Optimization Techniques

EXPERIENCE

Lead Data Analyst   June 2016 - Present
Forage Genetics International   Davis, Ca.
- Responsible for Analyzing the Raw Data Generated in Inhouse Laboratory
- Designed Polyploid Dosage Calling R Package Using Semi-Supervised Models
- Implimented Analytical Pipeline for Marker Assisted Selection
- Leading API Development Team for Fully Automating the Lab Experiments
- Responsible for Implimenting GWAS, Genetic Mapping, and QTL Analysis

Undergraduate Researcher   October 2016 - Present
UC Davis Bioinformatics Core   Davis, Ca.
- Microbial Community Analysis Across 16S Gene
- Developing a Novel Alignment Algorithm that Trains on CIGAR String Values
- Creating a Python Package for Distributing the Algorithm
- Experience with Bowtie, BWA, Samtools, Tophat, and GATK

Undergraduate Researcher   February 2016 - July 2016
University of California – Genome Center   Davis, Ca.
- Studied Multiple Machine Learning Models; Including LWPR, LWR, Gaussian Processes, and Neural Networks
- Implemented a LWPR Model in both Matlab and C^{++}
- Performed Optimal Experimental Design Through Uncertainty Queries Across the Feature Space

AWARDS

Dean's List/President's Honors	2013-2016
AMATYC: Outstanding Achievement	2015
Materials Science Student of the Year	2015
Academic Excellence Award	2014
Mathematics Student of the Year	2014
Deans List (President's Honors)	2013 - 2016
Elected President, Solano Math Club	2013 - 2015