

GUANG YANG

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EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY, Berkeley, CA

M.S. in Industrial Engineering & Operations Research

Dec 2014

- *Coursework:* Statistical Computing, Applied Stochastic Processes, Learning and Optimization, Mathematical Programming, Supply Chain and Logistics Management, Financial Engineering
- Awarded UC Berkeley Graduate Fellowship 2013

RICE UNIVERSITY, Houston, TX

B.A. in Computational and Applied Mathematics (CAAM)

May 2013

- *Coursework:* Numerical Analysis, Neural Machine Learning, Optimization Theory, Applied Matrix Analysis, Complex Analysis, Probability and Statistics

TECHNICAL

- *Languages:* Python, Scala, Java, Ruby, Unix, MATLAB, R, AMPL
- *Data Pipelining:* Kafka, Hadoop, Spark, Cassandra, MySQL
- *Funsies:* git, Ruby on Rails, d3.js, HTML, CSS, vim, L^AT_EX

EXPERIENCE

INSIGHT DATA SCIENCE, Palo Alto, CA

Data Engineering Fellow

Jan 2015 – Present

- Developed a pipeline to provide game insights from Starcraft II[®] replay files.
- Gained experience in large scale distributed data architectures through training, mentorship and projects using Kafka, Spark, Cassandra, and Hadoop ecosystem tools.

UC BERKELEY SCHOOL OF INFORMATION, Berkeley, CA

Teaching Assistant

Jun – Dec 2014

- 'Exploring and Analyzing Data', part of the Master of Information and Data Science program
- **Developed a semi-automatic grading program in Python**

BERKELEY COMPUTATIONAL OPTIMIZATION LAB, Berkeley, CA

Graduate Student Research

Aug 2013 – May 2014

- Formulated and implemented an algorithm to analyze exact reachability for skew-line needle planning in automated brachytherapy
- **Published results in an article for the IEEE CASE 2014 Conference**

RICE UNIVERSITY, Houston, TX

NSF, VIGRE Summer Internship

May – Jul 2012

- Applied the machine learning method, Regularized Dual Averaging, to classify electroencephalogram recordings of patients performing a visual categorization task
- Awarded CAAM-Chevron Undergraduate Research Prize

Head Academic Fellow (Will Rice College)

Aug 2012 – May 2013

- Led 25+ Academic Fellows in providing academic assistance to underclassmen and organizing events to stimulate the intellectual environment

NATIONAL INSTITUTE FOR MATHEMATICAL AND BIOLOGICAL SYNTHESIS, Knoxville, TN

NSF, Research Experience for Undergraduates

Jun – Aug 2010

- Built a model in R to simulate the dynamics of John's Disease in a U.S. dairy herd. Performed cost analysis comparing existing control strategies and a newly developed testing method
- **Published results in a paper for Journal of Biological Systems**