Allen Wu

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EDUCATION

University of Chicago, Chicago, IL
Bachelor of Arts, Mathematics, expected Spring 2015
GPA: 3.89/4.00
Relevant Coursework: Honors Calculus I-III, Analysis in $\mathbb{R}^n$ I-III, Honors Basic Algebra I-II, Statistical Theory/Method I-II, Cognitive Psychology, Basic Complex Variables, Ordinary Differential Equations

Los Alamos High School, Los Alamos, NM
GPA: 4.33/4.00
Relevant Coursework: AP Computer Science

EXPERIENCE

Intern Summer 2014
Sandia National Laboratory, Resilience and Regulatory Effects

- Performed research regarding new developments in economic modeling and offered input regarding the efficacy of various models.
- Investigated, acquired, and organized publicly available data sets.
- Wrote code that filtered, analyzed, and consolidated that data, then quickly and iteratively produced relevant graphics.
- Reviewed peer papers and proposals for publication.

Student Summer 2012
Undergraduate Mathematics REU, University of Chicago

- Attended introductory lectures to higher mathematics and occasionally specialized lectures on specific topics.
- Researched basic number theory under the guidance of a graduate student mentor.

Intern Summer 2010
Los Alamos National Laboratory, T-Division

- Wrote a simple but highly modular program in Java that read data from input arrays and interpolated density graphs according to finite element methodology. The program rotated, deformed, and translated systems of particles in one and two dimensions.
- Adjusted program specifications and inputs according to mathematical theories to test the boundaries of the methodology and attempt to fix some its more glaring flaws, specifically regarding collision modeling.
- Researched the mathematical foundations of the method and provided input on remedies where appropriate.

SKILLS

Programming: Python, C++, Java, R, Stata

INTERESTS

Board and card games, writing, movies with too much exposition, literary phylogenetics, Miranda July, the Mountain Goats