

DI WANG

1514 Oxford St. APT 104
Berkeley, CA 94709

607-379-1538
wangd@cs.berkeley.edu

EDUCATION

UC Berkeley, EECS, Berkeley, CA

▪ PhD in Theoretical Computer Science, GPA: 4.0 Expected May 2015

▪ Areas of Specialization: Algorithm, Algorithm Game Theory, Social Computation

Cornell University, College of Engineering, Ithaca, NY

▪ Bachelor of Science in **Computer Science (summa cum laude)** May 2010

▪ **Honors Program, GPA: 4.11**

RELEVANT COURSES

Randomized Algorithms, Approximation Algorithms, Combinatorial Algorithms, Algorithmic Game Theory, Decision Theory, Networks, Behavioral Data Mining, Statistical Machine Learning, Probability, Functional Programming, System Programming

RESEARCH EXPERIENCE

Graduate Student Researcher with Prof. Satish Rao Summer 2010 – present

▪ Studied collaborative filtering problems in large-scale social network settings. Analyzed the performance of various random-walk flavor algorithms, the effects of random sampling, and the tradeoff between local and global information.

Research Assistant with Prof. Robert Kleinberg and Prof. Ramin Zabih, Cornell University Summer 2008 - Summer 2009

▪ Designed and implemented efficient multi-commodity max flow algorithm to compute a specific lower bound of the Quadratic Unconstrained Binary Optimization (QUBO) problem, and applied the results to various imaging tasks.

TEACHING EXPERIENCE

Introduction to Computing using Java, Consultant, Cornell University Fall 2007 to Fall 2009

▪ Worked one-on-one with students to guide them through the Engineering College's required programming course. Students had very little experience in programming, and came from diversified backgrounds.

Introduction to the Theory of Computing (CS3810), Teaching Assistant, Cornell University Summer 2008, Fall 2008

Introduction to Analysis of Algorithms (CS4820), Teaching Assistant, Cornell University Spring 2009, Spring 2010

▪ Explained course materials and helped students in the upper level theoretical courses develop problem solving skills. Coordinated homework grading and exams. Average class size was around 100.

AWARDS AND PUBLICATIONS

Runner-up, Computing Research Association (CRA) Outstanding Undergraduate Researchers Award 2010

▪ “Recognizes undergraduate students in North American universities who show outstanding research potential.”

Winner, Cornell University Computer Science Prize for Academic Excellence and Leadership. 2010

▪ “Awarded annually to an outstanding senior who has excelled academically, demonstrating a strong commitment to the educational ideals of the University and the Department of Computer Science.”

Di Wang, Robert Kleinberg, *Analyzing Quadratic Unconstrained Binary Optimization Problems Via Multicommodity Flows*, Discrete Applied Mathematics 157 (18) (2009) 3746-3753.

ACTIVITIES

Treasurer, Computer Science Graduate Student Association, UC Berkeley Summer 2010 – present

▪ Administered a budget of around 15,000 each year. Coordinated industry sponsorship and department funding. Audited spending of organizational events

Peer Advisor, College of Engineering, Cornell University, Ithaca, NY Fall 2007, Fall 2008

▪ Co-facilitated and advised a class of 20 freshmen in the college of Engineering. Helped first-year students negotiate the registration process and provided useful information about courses, tips on studying, student activities and organizations.

SKILLS

▪ Programming: Java, C++, Matlab, Standard ML, Python, Unix

▪ Languages: Mandarin (native), English (fluent), German (basic)