

Daniel Reich

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Education

2004-present University of Arizona, Tucson, AZ

Graduate College

- MS in Applied Mathematics, May 2006 GPA: 3.71
- PhD in Applied Mathematics, expected May 2009
- PhD Minor in Systems & Industrial Engineering, expected May 2009

2000-2004 Columbia University, New York, NY

School of Engineering & Applied Science

- Bachelor of Science in Applied Mathematics GPA: 3.53

Professional Experience

Summer 2008 Target Corporation, Minneapolis, MN

Analytics and Optimization Sciences Intern

- Developed an integer programming model to automate product placement in stores
- Partnered with Target Store design teams to ensure the model satisfied business needs
- Integrated the model's implementation with the existing technology infrastructure

Summer 2007-Fall 2008 University of Arizona, Tucson, AZ

National Science Foundation VIGRE Fellow

- Continued dissertation research on a class of stochastic network flow problems
- Supervised undergraduate research projects

Spring 2007 University of Arizona, Tucson, AZ

Dept. of Systems & Industrial Engineering Graduate Research Assistant

- Developed a framework for utilizing probability distributions as a means of inferring missing numerical information in network flow problems

Fall 2006 University of Arizona, Tucson, AZ

Network Administration: Department of Mathematics Computer GTA

- Built and redesigned XHTML-compliant webpages for the department website
- Wrote scripts to maintain and improve departmental webpages
- Organized Software Interest Group seminar for graduate students, faculty and staff

Fall 2005-Spring 2006 University of Arizona, Tucson, AZ

Department of Mathematics Graduate Teaching Assistant

- Served as instructor for College Algebra course at the university
- Designed and graded homework assignments and exams

Fall 2004-Summer 2005 University of Arizona, Tucson, AZ

National Science Foundation VIGRE Fellow

- Extracted data samples from moving images and analyzed the physical properties evident in the movements of various fluids
- Worked through a detailed proof of an analytic inequality involving sharp constants

Awards / Honors

Greenpoint Foundation Scholarship Awardee
Columbia Engineering Dean's List
National Science Foundation VIGRE Travel Award
The University of Arizona Herbert E. Carter Travel Award

Selected Graduate Coursework

Optimization, Stochastic Processes, Integer Programming, Algorithms, Linear Algebra,
Differential Equations, Probability, Discrete Mathematics, Numerical Analysis, Complex Variables

Publications

Reich, D. and L. Lopes. The Most Likely Path. *Submitted to Networks*, 2008.
Reich, D. and L. Lopes. Preprocessing Stochastic Shortest Path Problems on Directed Acyclic Networks.
Submitted to INFORMS Journal on Computing, 2008.

Selected Talks & Presentations

Fall 2008
The INFORMS Annual Meeting
The Most Likely Path Problem. Marriott Wardman Park Hotel, Washington, DC

Spring 2008
The Software Interest Group Seminar
Creating Videos & Embedding Them in LaTeX Presentations. The University of Arizona, Tucson, AZ

Spring 2008
The Los Alamos Days Conference
The Most Likely Path. The University of New Mexico, Albuquerque, NM

Fall 2006
The Software Interest Group Seminar
Webpages Done Right: XHTML & CSS. The University of Arizona, Tucson, AZ