

April Rasala Lehman

MIT CS and AI Lab · Room 32-G608 · Cambridge, MA 02139 · (617) 876-5222 · rasala@mit.edu

Education

Massachusetts Institute of Technology

Cambridge, MA

Candidate for Ph.D. in Computer Science

January 2005

Studied theoretical limits on data transmission through digital networks.

Master of Science in Electrical Engineering and Computer Science

2001

Designed cost-efficient cross-connects for optical networks.

Dartmouth College

Hanover, NH

Bachelor of Arts

1999

Summa Cum Laude with High Honors in computer science.

Honors and Awards

Outstanding Undergraduate Award 1999

Awarded by the Computing Research Association to the top female and male undergraduate in computer science in the United States and Canada.

National Science Foundation Fellowship Award 1999

Lucent Technologies Graduate Research Program for Women Fellowship Recipient 1999

Dartmouth College Rufus Choate Scholar 1996-99

Women's Soccer First Team All Ivy-League 1998

Professional Experience

IBM Almaden Research Center

San Jose, CA

Research Intern

summer 2001

Examined properties of random processes that model internet browsing behavior.

Bell Laboratories of Lucent Technologies

Murray Hill, NJ

Research Intern

summer 1999, 2000

Designed cost-efficient optical cross-connects that allow signals encoded in different light wavelengths from multiple fibers to be simultaneously switched between fibers and wavelengths. Discovered instabilities in a widely-used internet routing protocol.

Dartmouth College

Hanover, NH

Research Assistant

1997-1999

Developed algorithms and techniques for finding schedules that are near-optimal with respect to multiple criteria.

University of Washington

Seattle, WA

Computing Research Association Intern

summer 1998

Proved bounds on the performance of algorithms that optimize a database in response to user queries.

Teaching Experience

Dartmouth College

Hanover, NH

Visiting Lecturer

summer 2002

Taught undergraduate and graduate students fundamental mathematical techniques for the study of computer science. Supervised graduate teaching assistants and an undergraduate grader.

Patents

Optical cross-connect design (#6,535,310; #6,487,332)

Improved border gateway protocol (application #20030174653)