

Ravi Chugh

CONTACT INFORMATION

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INTERESTS

Design and implementation of programming languages, compilers, and program analyses.

EDUCATION

University of California, San Diego

La Jolla, CA

Second-year PhD student.

University of Pennsylvania

Philadelphia, PA

Graduated *summa cum laude*, May 2007. Cumulative GPA 3.82/4.00.

M.S.E., Computer and Information Science.

B.S.E., Computer Science and Engineering.

Minor, Mathematics.

Deerfield Academy

Deerfield, MA

Graduated *cum laude*, May 2002.

Editor-in-chief, *The Deerfield Scroll*.

RESEARCH EXPERIENCE

University of California, San Diego

La Jolla, CA

Graduate Student Researcher, June 2007 – present

TEACHING EXPERIENCE

University of California, San Diego

La Jolla, CA

Teaching Assistant, January 2009 – March 2009

Course: Programming Languages: Principles and Paradigms

University of Pennsylvania

Philadelphia, PA

Co-instructor, Summer Academy in Applied Science & Technology, July 2007

Designed a 3-week course in basic hardware and software algorithms.

Taught 21 high school students for 1.75 hours 4 times per week.

Produced 100 reusable pages of lecture notes, problem sets, and quizzes.

Teaching Assistant, September 2004 – May 2007

Courses:

Programming Languages and Techniques (3 semesters)

Introduction to C# (2 semesters)

Mathematical Foundations of Computer Science (2 semesters)

Taught recitations of 10–25 students, held weekly office hours, and taught review sessions.

Designed in-class assignments and homeworks.

PROFESSIONAL EXPERIENCE

Microsoft Corporation

Redmond, WA

Software Design Engineer Intern, Windows Live Local, May 2006 – August 2006

Designed and implemented a server- and client-side solution for generating and displaying a map overlay.

Program Manager Intern, Internet Explorer, May 2005 – August 2005

Designed and implemented web applications to automate data tracking of bug fixes and hotfix releases.

PAPERS

Ravi Chugh, Jeff Meister, Ranjit Jhala, and Sorin Lerner. **Staged Information Flow for JavaScript**. Submitted for publication, November 2008.

Ravi Chugh, Jan W. Voung, Ranjit Jhala, and Sorin Lerner. **Dataflow Analysis for Concurrent Programs using Datarace Detection**. In *Proceedings of the 30th ACM Conference on Programming Language Design and Implementation (PLDI)*, Tucson, AZ, June 2008. [18%]

AWARDS

School of Engineering and Applied Science, University of Pennsylvania:

Hugo Otto Wolf Memorial Prize (April 2007)

Walter Korn Award (April 2007)

Eta Kappa Nu – Electrical and Computer Engineering Honor Society (October 2006)

SERVICE

External reviewer (CC 2009)

PERSONAL

Spent academic year 2002–03 at Maru-a-Pula School in Gaborone, Botswana. Assisted and performed with acclaimed Maru-a-Pula Marimba Band, and served as an aide to various teachers.