

# Andy Parrish

atparrish@ucsd.edu

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## EDUCATION

**Ph.D. student of Mathematics** at University of California, San Diego Sept 2008 – Present

### Ph.D. Coursework:

Random Graphs, Probability, Real Analysis, Statistics, Quantum Computing, Topology

**C.Phil. in Mathematics** at University of California, San Diego June 2011

**M.A. in Mathematics** at University of California, San Diego June 2010

**B.S. in Mathematics and Computer Science** at University of Maryland, College Park Aug 2003 – Dec 2007

Overall GPA: 3.88, Mathematics GPA: 4.0, Dean's List all semesters

Mathematics departmental High Honors, Computer Science departmental High Honors, University Honors

Studied abroad in the Budapest Semesters in Mathematics program Fall 2006

### Mathematics Coursework:

Linear Algebra, Probability and Statistics, Number Theory, Abstract Algebra, Galois Theory, Set Theory, Geometric Group Theory, Combinatorics, Graph Theory, Real Analysis, Topology, Functional Analysis

### Computer Science Coursework:

Object-Oriented Programming, Low-level Programming, Computer Organization, Algorithm Analysis, Data Structures, Cryptography, Numerical Analysis, Artificial Intelligence, Complexity Theory

## COMPUTER SKILLS:

**Languages:** C/C++, Python, Java, MATLAB, Mathematica, PHP, MySQL, some Lisp

## EXPERIENCE:

**Assistant Senior TA** at UC San Diego for Mathematics Department Sept 2011 – Present

- Helped coordinate orientation for incoming students, and training for new teaching assistants
- Participated in monthly meetings to help advise the direction of the Mathematics Department

**Associate Instructor** at UC San Diego for Mathematics Department Sept 2011 – Present

- Instructed 125 students in first-quarter calculus
- Held office hours, coordinated with teaching assistants and a grader

**Software Engineering Intern** at Google Boston June 2011 – Sept 2011

- Designed and implemented a simulation of content distribution servers
- Navigated and understood components of a large code base

**Teaching Assistant** at UC San Diego for Mathematics Department Sept 2008 – June 2011

- Presented weekly discussion sessions for courses in calculus, differential equations, graduate algebra
- Held office hours, graded exams, and addressed student concerns

**Research Intern** at Johns Hopkins University Applied Physics Laboratory Summers 2008, 2009

- Performed cryptography research, culminating in a paper submitted to RSA-CT conference
- Investigated efficient algorithms for Private Information Retrieval

## AWARDS AND HONORS:

Computer Science, Engineering, and Mathematics Scholarship Aug 2007 – Dec 2007

First Prize, 14<sup>th</sup> International Mathematics Competition for University Students Aug 2007

Eric B. Young Study Abroad Scholarship Aug 2006 – Dec 2006

Higginbotham Award, University of MD Department of Mathematics Aug 2006 – Dec 2006

## INTERESTS:

Juggling, elegant mathematical proofs, animals, pumpkin-launching machines