Andy Parrish
atparrish@ucsd.edu

EDUCATION

Ph.D. student of Mathematics at University of California, San Diego   Sept 2008 – June 2013 (expected)

Ph.D. Coursework (GPA: 3.97)
Random Graphs, Probability, Statistics, Extremal Combinatorics

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, Graph Theory, Cryptography, Abstract Algebra, Set Theory

Computer Science Coursework
Object-Oriented Programming, Low-level Programming, Algorithm Analysis, Data Structures, Cryptography

PROGRAMMING LANGUAGES

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

INDUSTRY EXPERIENCE

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

Research Intern at Johns Hopkins University Applied Physics Laboratory   Summers 2007, 2008
- Performed cryptography research, culminating in a paper submitted to RSA-CT conference
- Investigated efficient algorithms for Private Information Retrieval

ACADEMIC EXPERIENCE

Teaching Assistant at UC San Diego for Mathematics Department   Sept 2008 – June 2012
- Presented weekly discussion sessions for courses in calculus, differential equations, graduate algebra
- Held office hours, graded exams, and addressed student concerns

Senior TA at UC San Diego for Mathematics Department   Sept 2012 – Present
- Coordinated 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 – Dec 2011
- Instructed 120+ students in first-quarter calculus
- Held office hours, coordinated with teaching assistants and a grader

PUBLICATIONS

"An additive version of Ramsey's theorem," Journal of Combinatorics, 2011, Vol. 4
"Toward a graph version of Rado's theorem," Electronic Journal of Combinatorics, 2013, Vol. 1
"Three Proofs of the Hypergraph Ramsey Theorem," (submitted)
Van der Waerden's Theorem and Its Applications with W. Gasarch and C. Kruskal, Springer (in progress)

INTERESTS

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