

Andrew Lohr

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Education

Rutgers University 2013-Present

PhD Mathematics

Concentration in theoretical computer science and experimental math.

GPA: 3.65

New Brunswick, NJ
Advisor – Dr. Zeilberger

University of Maryland 2009 – 2013

BS Computer Science (Honors), BS Mathematics (High Honors), BS Physics

GPA: Overall 3.88, CS 4.00

College Park, MD

Work Experience

Google

Software Engineering Intern Summer 2016

Irvine, CA

- Worked on Attribution 360, part of Google Analytics.
- Wrote a synthetic data based testing framework for evaluating television attribution quality.
- Implemented several improvements to the machine learning model for television attribution.
- Learned about Software Engineering, such as dependency injection, test driven development, and good code quality. (coding was mostly in java)
- Learned several machine learning topics in Bayesian inference, in particular, Gibbs sampling.

Rutgers University

Teaching Assistant/ Instructor Fall 2013 - Present:

New Brunswick, NJ

- Taught mathematics courses to undergraduates, both as a sole instructor and as an assistant.
- Presented technical material to groups ranging from 30 to 100 students.
- Courses include Calculus 1 through 3, as well as Linear Algebra and Analysis for engineers.

University of North Carolina

Research Assistant Summers 2013, 2012, 2011:

Greensboro, NC

- Researched combinatorics on partial words as part of an NSF funded research program under Dr. F. Blanchet-Sadri.
- Work involved programming in both Java and Python to aid in discovering mathematical results

Research

- Coauthored “Computing Minimum Length Representations of Sets of Words of Equal Length.” Presented at IWOCA 2014. Published in the journal “Theoretical Computer Science”.
- With Dr. F. Blanchet-Sadri, wrote “Computing Depths of Patterns.” Presented in March 2014 at LATA 2014. Published in the *Lecture Notes in Computer Science* series.
- With Dr. F. Blanchet-Sadri and Shane Scott, wrote “Computing the Partial Word Avoidability Indices of Ternary Patterns.” Presented at IWOCA 2012. Published in “Journal of Discrete Algorithms”.
- With Dr. William Gasarch, “Unequal Division.” Presented at Mathfest 2012. Posted on arxiv.org.

Competitions

- 2017 Bloomberg CodeCon 69th place worldwide
- 2015 Google Code Jam 638/56,749 worldwide (98 percentile)
- 2013 Microsoft puzzle challenge First place at University of Maryland
- 2012 Booz Allan Hamilton Cyber Triathlon Second Place
- 2012 Putnam Exam 239/4277 math majors nationwide (94 percentile)
- 2012 Washington DC Google Games First Place
- 2010 Booz Allan Hamilton Tech Challenge First Place

Other Activities

- In 2015, co authored a solutions manual to all 1115 problems and exercises in the CLRS book on algorithms.
- Refereed papers for STACS 2017, IJFCS 2016, and EJ-C

Technical Skills

Languages: Very Strong with Java and OCaml. Familiar with C/C++, Matlab, Maple, Ruby, and SQL.
Operating Systems/Technologies: Good with LaTeX and git. Very familiar with Gentoo Linux.