Caleb Stanford

castan@cis.upenn.edu

Education

▲ University of Pennsylvania

PhD student, computer science Fall 2016 – present

Advisor: Rajeev Alur.

▲ Brown University

ScB, mathematics and computer science

Fall 2013 – Spring 2016

▲ Brigham Young University

Fall 2012 - Spring 2013

Research

- ▲ Data Transducers for Streamable Regular Functions, R. Alur, K. Mamouras, and C. Stanford. In submission, 2017.
- ▲ Automata-Based Stream Processing, R. Alur, K. Mamouras, and C. Stanford. ICALP, July 2017.
- ▲ Outstanding Presentation Award for "Context-Directed Reversals of Signed Permutations," H. Li, J. Ramsey, M. Scheepers, H. Schilling, and C. Stanford. Joint Math Meetings (JMM), January 2016. Travel grant from JMM awarded.

Teaching

- ▲ Graduate TA for CIS 500, Software Foundations (Fall 2017)
- ▲ LATEX workshop teacher for the Brown Science Center (Spring 2014 Spring 2016)
- ▲ Undergraduate TA for CS 51 Models of Computation (Fall 2015)
- ▲ Undergraduate TA for CS 22 Discrete Structures and Probability (Spring 2016)
- ▲ Student Teacher for the BYU Math Circle (Fall 2012 Spring 2013)
- ▲ Math Resource Center Tutor at Brown (Fall 2014 Fall 2015)
- ▲ Grader for Math 127 Functional Analysis (Fall 2014) and Math 101 Real Analysis (Spring 2015)

Educational Experience

- ▲ Marktoberdorf Summer School logical methods for safety and security of software systems. August 2–11, 2017. Accepted with travel grant awarded.
- ▲ Lipa Summer School topics connected to logic in computer science. July 3–6, 2017, University of Warsaw.
- ▲ NASSLLI North American Summer School on Logic, Language, and Information. July 9–16, 2016, Rutgers University. Scholarship awarded.

Graduate Coursework

- ▲ Math 571 Logic II (Penn, Spring 2017)
- ▲ ESE 676 Coding Theory (Penn, Spring 2017)
- ▲ CIS 673 Computer-Aided Verification (Penn, Fall 2016)
- ▲ CIS 500 Software Foundations (Penn, Fall 2016)
- ▲ CIS 502 Algorithms (Penn, Fall 2016)

Undergraduate Coursework

Computer Science courses:

- ▲ CS 195Y Logic for Systems (Brown, Spring 2016)
- ▲ CS 195H Computational Topology (Brown, Spring 2015)
- ▲ CS 51 Models of Computation (Brown, Fall 2014)
- ▲ CS 146 Computational Linguistics (Brown, Spring 2014)
- ▲ CS 141 Artificial Intelligence (Brown, Spring 2014)
- ▲ CS 33 Introduction to Systems (Brown, Fall 2013)
- ▲ CS 235 Data Structures (BYU, Spring 2013)
- ▲ CS 142 Introduction to Programing (BYU, Fall 2012)

Math courses:

- ▲ Math 123 Graph Theory (Brown, Spring 2016)
- ▲ Math 141 Topology (Brown, Fall 2015)
- ▲ Applied Math 174 Recent Applications of Probability and Statistics (Brown, Spring 2015)
- ▲ Math 251 Graduate Algebra (Brown, Fall 2014)
- ▲ Math 222 Graduate Functional Analysis (Brown, Spring 2014)
- ▲ Math 221 Graduate Real Analysis (Brown, Fall 2013)
- ▲ Math 352 Complex Analysis (BYU, Spring 2013)
- ▲ Math 372 Abstract Algebra 2 Galois Theory (BYU, Spring 2013)
- ▲ Math 371 Abstract Algebra 1 Groups and Rings (BYU, Fall 2012)
- ▲ Math 342 Real Analysis 2 (BYU, Spring 2013)
- ▲ Math 341 Real Analysis 1 (BYU, Fall 2012)

Other relevant courses:

- ▲ Phil 188 Advanced Deductive Logic (Spring 2016)
- ▲ GISP 002 Model Theory (Spring 2015)
 - A successful group independent study class on Model Theory, which I initiated. 8 other students participated.
- ▲ Phil 54 Logic (Fall 2014)

Other Achievements

▲ Co-founded and currently run and write problems for the **Utah Math Olympiad**. The fifth annual contest was held in March 2017.

▲ Putnam math exam:

Year	Score	National Rank
2012	30	319th place
2013	40	136th place
2014	40	150th place
2015	30	163.5th place

- ▲ Math GRE: Score 900; 97th percentile.
- ▲ ACM ICPC: International Collegiate Programming Contest. Qualified for the Northeast North America regional round, fall 2014 and fall 2015. 3rd place at qualifier round and 5th place at regionals in 2015, as a team of 3.

External Links

▲ My website: http://cis.upenn.edu/~castan

▲ Utah Math Olympiad: http://utahmath.org