Caleb Stanford

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Research Interests

- ▶ Programming systems for data processing
- ▶ Formal verification
- ► Logical foundations of computing

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

Papers and Publications

- ▶ Data transducers for streamable regular functions, R. Alur, K. Mamouras, and C. Stanford. In preparation, December 2017.
- ▶ Data-trace types for distributed stream processing systems, K. Mamouras, C. Stanford, R. Alur, Z. Ives, and V. Tannen. In submission, November 2017.
- ▶ Interfaces for stream processing systems, R. Alur, K. Mamouras, C. Stanford, and V. Tannen. *Principles of Modeling*: Festschrift Symposium in honor of Edward A. Lee, Robert S. Pepper Distinguished Professor. Berkeley, California, October 2017. Proceedings forthcoming.
- ▶ Automata-based stream processing, R. Alur, K. Mamouras, and C. Stanford. 44th International Colloquium on Automata, Languages, and Programming (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.

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.

Achievements

- ► Co-founder of 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.

Teaching

- ▶ Graduate TA for CIS 511, Theory of Computation (Spring 2018)
- ▶ 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)
- ▶ Math Resource Center Tutor at Brown (Fall 2014 Fall 2015)
- ▶ Student Teacher for the BYU Math Circle (Fall 2012 Spring 2013)

External Links

- ▶ My website: http://cis.upenn.edu/~castan
- ▶ Utah Math Olympiad: http://utahmath.org