

Caleb Stanford
castan@cis.upenn.edu

Education

- ▲ **University of Pennsylvania**
PhD Student, Computer Science
Fall 2016 – Present
- ▲ **Brown University**
ScB, Mathematics and Computer Science
Fall 2013 – Spring 2016
- ▲ **Brigham Young University**
Fall 2012 – Spring 2013

Research

- ▲ R. Alur, K. Mamouras, and C. Stanford. **Automata-based Stream Processing**, International Colloquium on Automata, Languages, and Programming, July 2017.
- ▲ Outstanding Presentation Award for “Context-Directed Reversals of Signed Permutations,” at the Joint Math Meetings (JMM). January 2016. Travel grant from JMM awarded.

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.

Teaching

- ▲ **L^AT_EX 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)
- ▲ **Group Tutor** for Math 90 Calculus (Fall 2014)
- ▲ **Counselor** at the national middle school math program MathPath (Summer 2013 and Summer 2014)

Graduate Coursework

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

Undergraduate Coursework

Computer Science courses:

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

Math courses:

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

Other relevant courses:

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

External Links

- ▲ My website: <http://cis.upenn.edu/~castan>
- ▲ Utah Math Olympiad: <http://utmath.org>