

Education

- **Massachusetts Institute of Technology** Cambridge, MA
Ph.D., Electrical Engineering and Computer Science Sep. 2016 – May. 2021 (expected)
 - Research interests: machine learning, optimization, algorithms
 - Advisor: Stefanie Jegelka
- **University of British Columbia** Vancouver, BC
B.S., Computer Science and Mathematics Sep. 2012 – May. 2016
 - Advisor: Nick Harvey; GPA: 3.98/4.0

Publications

- Nicholas J.A. Harvey and Keyulu Xu. Generating Random Spanning Trees via Fast Matrix Multiplication. *Latin American Theoretical Informatics Symposium (LATIN)*. 2016.

Experience

- **National Institute of Informatics (NII)** Tokyo, Japan
Research Intern Feb. 2016 – Aug. 2016
 - Working on a simpler proof of the Four Color Theorem
 - Developing an almost-linear time four-coloring algorithm
- **Google Inc.** New York, NY
Software Engineering Intern May. 2015 – Aug. 2015
 - Designed and implemented Google cloud data storage system for OS X
- **UBC Theory Group** Vancouver, BC
Research Assistant May. 2014 – Apr. 2015
 - Research on spectral graph theory, learning theory and randomized algorithms
 - Designed an algorithm for generating uniformly random spanning trees
- **UBC Scientific Computing Lab** Vancouver, BC
Research Assistant May. 2013 – Aug. 2013
 - Developed a software package for solving large-scale sparse saddle-point systems

Awards

- David S. Y. and Harold Wong Fellowship, MIT, 2016
- Andrew and Erna Viterbi Fellowship, MIT, 2016
- 5th Place, ACM-ICPC Programming Contest, Pacific NW Region, 2013

Skills

Programming Languages C++, Java, Matlab, Go, Python, Scheme, SQL

Languages English, Chinese, Japanese