

Education

- 2014–now **Ph. D. in Computer Science**, *Columbia University*.
Theory Group, coadvised by Daniel Hsu and Allison Bishop
- 2012–2014 **M. A. in Mathematics**, *University of Pennsylvania*.
- 2010–2014 **B. S. in Computer Science and Mathematics**, *University of Pennsylvania*.
Magna Cum Laude. Honors in Mathematics

Publications

Daniel Hsu, Kevin Shi, and Xiaorui Sun. Linear regression without correspondence. In *Advances in Neural Information Processing Systems 30*, 2017.

Alexandr Andoni, Daniel Hsu, Kevin Shi, and Xiaorui Sun. Correspondence retrieval. In *Proceedings of the 2017 Conference on Learning Theory*, 2017.

Jimmy Wang, Kevin Shi, Alan Stocker, and Daniel Lee. Optimal neural tuning for arbitrary stimulus priors. In *Computational and Systems Neuroscience*, 2012.

Experience

Research

- 01/2017– **Visiting graduate student**, *Simons Institute for the Theory of Computing*.
04/2017 Program on Foundations of Machine Learning
- 05/2013– **Research intern**, *MIT Lincoln Laboratory*.
08/2013 Designed feature extraction algorithms for time series obtained from radar. Gave group presentation and wrote internal paper
- 05/2012– **Summer intern**, *Penn Applied Algebraic Topology*, University of Pennsylvania.
08/2012 Studied a sheaf-theoretic generalization of network flows
- 05/2011– **REU in Computational Neuroscience**, *Lee Lab*, University of Pennsylvania.
08/2011 Studied population codes of spike trains using information-theoretic techniques

Industry

- 05/2017– **Data science intern**, *Button*, New York City.
08/2017 Researched and implemented models for adaptive anomaly detection in Python. Deployed models to process all production data in real time
- 05/2014– **Computer vision intern**, *Lily Robotics*.
08/2014 Researched and implemented a vision-based people tracking system in C++ and OpenCV for use on a quadrotor platform. Used techniques from multiscale object detection, online machine learning, and sensor fusion

Teaching

Columbia University

- Fall 2016 **Programming and Problem Solving**, *Teaching Assistant*.
- Spring 2016 **Advanced Machine Learning**, *Teaching Assistant*.
- Fall 2015 **Algorithms for Massive Data**, *Teaching Assistant*.

University of Pennsylvania

- Spring 2013 **Algorithms**, *Teaching Assistant*.
- Fall 2012 **Theory of Computation**, *Teaching Assistant*.

Service

- 2017-now **Organizer**, *Data Science Institute Student Seminar*, Columbia University.
- 2016 **Organizer**, *Computer Science Department Coffee Hour*, Columbia University.
- 2012-2014 **Chair**, *Penn Undergraduate Math Society*, University of Pennsylvania.
- Reviewer**, *STOC 2016*, *JMLR 2016*.

Technical skills

Proficient in Python (incl. NumPy, SciPy, Pandas), Matlab, Java
Familiar with C++, OpenCV, SQL