

Education	Ph.D. in Computer Science	Columbia University Fall 2014 - present
	Coadvised by Daniel Hsu and Allison Bishop	
	M.A. in Mathematics (joint degree)	University of Pennsylvania Fall 2012 - Spring 2014
	Advised by Sanjeev Khanna. Thesis: Fast Circuit Satisfiability	
	B.S. in Computer Science and Mathematics	University of Pennsylvania Fall 2010 - Spring 2014
Experience	Data science intern	Button May 2017 - August 2017
	<i>New York City</i>	
	Researching and implementing models for adaptive anomaly detection and for derived customer segmentation.	
	Visiting graduate student	Simons Institute for the Theory of Computing January 2017 - April 2017
	<i>Berkeley, CA</i>	
	Program on Foundations of Machine Learning	
	Computer vision intern	Lily Robotics June 2014 - Aug 2014
	<i>Boston, MA</i>	
	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, on-line machine learning, and sensor fusion	
	Research intern	MIT Lincoln Laboratory May 2013 - August 2013
	<i>Lexington, MA</i>	
	Designed feature extraction algorithms for time series obtained from radar. Classification accuracy using this improved upon current statistical methods. Gave group presentation and wrote internal paper	
	Undergraduate researcher	Penn Applied Algebraic Topology May 2012 - August 2012
	<i>University of Pennsylvania</i>	
	Studied a group-theoretic generalization of network flows	
Papers	Correspondence retrieval	
	Alexandr Andoni, Daniel Hsu, Kevin Shi, Xiaorui Sun	
	<i>To appear in Conference on Learning Theory (COLT) 2017</i>	
	Linear regression without correspondence	
	Daniel Hsu, Kevin Shi, Xiaorui Sun	
	<i>Submitted to Neural Information Processing Systems (NIPS) 2017</i>	
	Optimal neural tuning for arbitrary stimulus priors	
	Jimmy Wang, Kevin Shi, Alan Stocker, Daniel Lee	
	<i>In Computational and Systems Neuroscience (COSYNE) 2012</i>	
Teaching	Teaching Assistant - Columbia University	
	<ul style="list-style-type: none"> • COMS 4444 - Programming and Problem Solving - Fall 2016 • COMS 4772 - Advanced Machine Learning - Spring 2016 • COMS 6998 - Algorithms for Massive Data - Fall 2015 	
	Teaching Assistant - University of Pennsylvania	
	<ul style="list-style-type: none"> • CIS 320 - Algorithms - Spring 2013 • CIS 262 - Theory of Computation - Fall 2012 	

Awards

SAP Code Slam Finals - 1st Place - October 2012

Worldwide online programming competition with a \$5k scholarship

Putnam Top 500 - December 2012

PennApps Top 20 - Fall 2013 and Fall 2014

TripAdvisor Programming Challenge - 2nd place at Columbia University - Fall 2016

Service

External reviewer for STOC 2016, JMLR 2016

PhD coffee hour organizer for Columbia Computer Science Department, 2016

Chair of Penn Undergraduate Math Society, Fall 2012 - Spring 2014

Skills

Python, Matlab, Java, C++, OpenCV