Kevin Shi

kshi@cs.columbia.edu

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
	New York City	May 2017 - August 2017
	Researching and implementing models for adaptive anomaly detection.	
	Visiting graduate student	Simons Institute for the Theory of Computing
	Berkeley, CA	January 2017 - April 2017
	Program on Foundations of Machine Learning	
	Computer vision intern	Lily Robotics
	Boston, MA	June 2014 - Aug 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	
	Research intern	MIT Lincoln Laboratory
	Lexington, MA	May 2013 - August 2013
	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
	University of Pennsylvania	May 2012 - August 2012
	Studied a group-theoretic generalization of network flows	

Papers	**Correspondence retrieval** Alexandr Andoni, Daniel Hsu, Kevin Shi, Xiaorui Sun *To appear in Conference on Learning Theory (COLT) 2017*
	Linear regression without correspondence Daniel Hsu, Kevin Shi, Xiaorui Sun *Submitted to Neural Information Processing Systems (NIPS) 2017*
	Optimal neural tuning for arbitrary stimulus priors Jimmy Wang, Kevin Shi, Alan Stocker, Daniel Lee *In Computational and Systems Neuroscience (COSYNE) 2012*

Teaching	Teaching Assistant - Columbia University • 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 • 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