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U.S. Citizen

Kevin Shi

Education

2014–now **Ph. D. in Computer Science**, *Columbia University*.
Coadvised by Daniel Hsu and Allison Bishop
Research interests: algorithms, statistical learning theory, nonconvex optimization

2017 **M. Phil in Computer Science**, *Columbia University*.
Subject: stochastic optimization

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

Experience

Industry

05/2017–08/2017 **Data Science Intern**, *Button*, New York, NY.
Researched and implemented models for adaptive anomaly detection in Python. Enabled automatic learning and tracking of new partner launches. Deployed models to process all production data in real time

05/2014–08/2014 **Computer Vision Intern**, *Lily Robotics*, Boston, MA.
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

05/2013–08/2013 **Research Intern**, *MIT Lincoln Laboratory*, Lexington, MA.
Designed feature extraction algorithms for time series obtained from radar. Wrote internal paper

Research

01/2017–04/2017 **Visiting Scholar**, *Simons Institute for the Theory of Computing*, Berkeley, CA.
Attended program on Foundations of Machine Learning

05/2012–08/2012 **Summer Intern**, *Penn Applied Algebraic Topology*, University of Pennsylvania.
Studied a sheaf-theoretic generalization of network flow duality

Other

2017-now **Content Consultant**, *Correlation One*, New York, NY.

09/2016-12/2016 **Teaching Assistant**, *COMS W4444 Programming and Problem Solving*, Columbia University.
Designed and implemented simulators for multiplayer games with student code using Java and Google Cloud

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.

Awards

09/2014 **PennApps Hackathon**, *Top 20*, University of Pennsylvania.
Built an application which use multiple webcams to track finger location and a projector to draw

09/2013 **PennApps Hackathon**, *Top 20*, University of Pennsylvania.
Created an automatic page-turner which listens to the musician and matches sheet music location

12/2012 **Putnam Math Competition**, *Top 500*.

10/2012 **SAP Code Slam Grand Finals**, *1st Place*.

Technical Skills

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