Kiran Vodrahalli

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Education

Princeton University September 2012 - June 2016 (expected)
A.B. Mathematics, Certificate in Computer Science

Interests

Theoretical Computer Science
Approximation Algorithms, Learning Theory, Optimization,
Statistics, Randomized and Online Algorithms, Information Theory

Applied Machine Learning
Natural Language Understanding, Computer Vision

Computational Neuroscience
Sparse Signal Representation

Research Projects

Solving Word Analogies with Convex Optimization (with Elad Hazan, Spring 2015—)
Comparing Hebbian Semantic Vectors Across Language (for NEU 330, Spring 2015)
Noun Compounds in Semantic Quad-Space (with Christiane Fellbaum, Fall 2014)
Estimating Trending Twitter Topics with Count-Min Sketch (for COS 521, Fall 2014)
Characterizing Intellectual Interests with SVM (with Sam Wang, Fall 2013—)
See my website for detailed descriptions.

Teaching

Princeton University
Seminar Leader, NLP-ML Reading Group (Spring 2014 — Present)
Grader, COS 226 (Spring 2014)
COS Lab TA (Fall 2013 — Spring 2015)

Mountain View Library, CA
Math tutor, grades 6 – 12. (Fall 2011 — Spring 2012)

Industry Experience

Palantir Technologies, IQE Intern (Summer 2015)
Worked on adding support for distributed systems frameworks for machine learning pipelines.

Intel Corporation, PerC Intern (June 2011 — August 2012, Summer 2013)
Worked on basic depth-sensing algorithms, 3D image capture, basic natural language processing, speech recognition evaluation. Made a few gesture-based demos as well.

Skills

Programming Languages
Python, LaTeX, C, OCaml, Haskell, C++, BASH, Mathematica, MATLAB, Java

Distributed Systems
Some experience with: Spark, YARN, HDFS