# **Kui Tang**

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### **EDUCATION**

### Columbia University. New York. NY

MS in Computer Science 2017

• On a leave of absence from the PhD program; advisors: David Blei and Tony Jebara

BS in Applied Mathematics

2014

Winner, Applied Mathematics Faculty Award

### **INDUSTRY EXPERIENCE**

# Microsoft Research New England, Cambridge, MA

Research Intern 2016

- Researched novel vector embedding and matrix-factorization methods to model consumer demand and price elasticities.
- Developed scalable inference algorithms on large data and prepared manuscript for peer-reviewed publication.

### Palantir Technologies, New York, NY

Software Engineering Intern, Machine Learning

2015

- Developed and evaluated a Bayesian hierarchical regression model of consumer demand.
- Parallelized and improved performance of production models, quadrupling training throughput.
- Presented methodology and results to business stakeholders.

# Hunch, New York, NY

Machine Learning Intern 2011

- Developed a privacy-respecting advertising tool based on learned user preferences.
- Implemented and evaluated collaborative filtering algorithms from literature.

# **ACADEMIC EXPERIENCE**

### Columbia University, New York, NY

**Graduate Research Assistant** 

2014-2017

- Researched novel models and algorithms in Bayesian inference, graphical models, and convex optimization with applications to natural language, vision, and economics.
- Published and presented peer-reviewed papers at top-tier conferences and gave invited talks at other top universities.
- Collaborated with faculty, postdocs, graduate students, and managed a team of 4 M.S. students to complete projects.

Teaching Assistant 2014—2015

- Held office hours and recitations to assist M.S. and Ph.D. students with machine learning assignments and research.
- Delivered substitute lectures in graduate machine learning courses when necessary.

Graduate Coordinator, Emerging Scholars Program

2015-2016

- Co-managed 4 sections of an undergraduate seminar designed to increase diversity in computer science enrollment.
- Advised undergraduate teaching assistants, updated course materials, and developed new lessons in machine learning.

### **Undergraduate Research Assistant**

2011—2014

2010-2014

- Collaborated with graduate students and faculty on systems and machine learning research.
- Co-authored 5 peer-reviewed papers in top-tier conferences.

Columbia University Egleston Undergraduate Research Fellowship

### **AWARDS AND FELLOWSHIPS**

Columbia University Presidential Fellowship (4 years full funding)	2014—Present
National Science Foundation (NSF) Graduate Research Fellowship (3 years funding)	2014—Present
National Defense Science and Engineering Graduate (NDSEG) Fellowship (declined)	2014
Runner-Up, Computing Research Association Outstanding Undergraduate Researcher	2014

#### PROGRAMMING

Proficient in Python (incl. NumPy, SciPy, Pandas, Matplotlib, Cython, C API), C, C++ (incl. Boost, Eigen, templates), Matlab (incl. Mex), Shell. Familiar with R, Java, SQL.

### **L**EADERSHIP

**FOREIGN LANGUAGES** 

LEADERSHIP	
Workflow Chair, International Conference on Machine Learning (ICML)	2013—2014
Reviewer, Neural Information Processing Systems (NIPS), Journal of Machine Learning Research (JMLR), ICML	2013—Present
President, Society for Industrial and Applied Mathematics (SIAM)	2013-2014
Treasurer, Beta Theta Pi Fraternity	2011—2013
Academic Chair, Association for Computing Machinery (ACM)	2011

French: proficient (reading, writing), intermediate (speaking) • Mandarin Chinese: bilingual (speaking), basic (reading, writing)