

Kui Tang

574 W 161st St Apt 5D • New York, NY 10032 • (917) 284-8218 • kt2384@columbia.edu • kui-tang.com • github.com/kuitang • US Citizen

EDUCATION

Columbia University, New York, NY

MS in Computer Science 2017

- Advised by Profs. 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

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

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

Columbia University Egleston Undergraduate Research Fellowship 2010—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.

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

FOREIGN LANGUAGES

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