Rashish Tandon

CONTACT INFORMATION	4.718C, Gates Dell Complex Department of Computer Science The University of Texas at Austin Austin, TX	*Phone:* (512) 913-9610 *E-mail:* rashish@cs.utexas.edu *WWW:* www.cs.utexas.edu/~rashish

RESEARCH
INTERESTS

Distributed methods for Machine Learning, High-dimensional inference

EDUCATION

The University of Texas at Austin   2011 - present

M.S./Ph.D. in Computer Science
- Cumulative GPA : 4.0/4.0
- Advisors : Pradeep Ravikumar, Alex Dimakis

Indian Institute of Technology Kanpur   2006 - 2011

B.Tech/M.Tech (Dual Degree) in Computer Science and Engineering
- Cumulative GPA : 9.6/10.0

PUBLICATIONS/
PREPRINTS

R. Tandon, Q. Lei, A. Dimakis, N. Karampatziakis **"Gradient Coding"**, *In the ML Systems Workshop, NIPS 2016*

R. Tandon, S. Si, P. Ravikumar, I. Dhillon **"Kernel Ridge Regression via Partitioning"**, *Preprint*

R. Tandon, K. Shanmugam, P. Ravikumar, A. Dimakis **"On the Information Theoretic Limits of Learning Ising Models"**, *In Advances in Neural Information Processing Systems (NIPS), 2014*

R.Tandon, P.Ravikumar **"Learning Graphs with a Few Hubs"**, *In the International Conference on Machine Learning (ICML), 2014*

A. Agarwal, A. Anandkumar, P. Jain, P. Netrapalli and R. Tandon **"Learning Sparsely Used Overcomplete Dictionaries via Alternating Minimization"**, *In the Conference on Learning Theory (COLT), 2014*

R. Tandon, P. Ravikumar **"On the Difficulty of Learning Power-Law Graphical Models"**, *In the IEEE International Symposium on Information Theory (ISIT), 2013*

GRADUATE
INTERNSHIPS

Research Intern, *Technicolor, Los Altos, CA*   June - Sep 2015
- Worked on hypothesis testing for structure
- Mentor : Naveen Goela

Research Intern, *Microsoft Research, Cambridge, New England*   June - Aug 2013
- Worked on optimization for large-scale image recognition
- Mentors : Sham Kakade and Ce Liu

UNDERGRADUATE
INTERNSHIPS

Visitor, *ISIR, Osaka University, Osaka, Japan*   June 2011
- Worked on energy minimization (MAP inference in graphical models) through discrete convex methods
- Mentor : Yoshinobu Kawahara

Research Intern, *MPI for Biological Cybernetics, Tubingen, Germany*   May - Jul 2010
- Worked on algorithms for Sparse Nonnegative Matrix Factorization
- Mentor : Suvrit Sra
- Report : http://www.cs.utexas.edu/~rashish/nmfreport.pdf

Software Development Intern, *Microsoft Bing, Redmond, WA, USA*   May - Jul 2009
- Worked in the *Distributed Data Storage and Computation Team*
- Mentor : Daniel D. Constantin

Student Intern, *University of Melbourne, Melbourne, Australia*   May - Jul 2008
- Investigated and implemented querying and storage methods for a large number of data clusterings
- Mentor : James Bailey

HONORS AND AWARDS
- Recipient of *Microelectronics and Computer Development (MCD) Fellowship* for academic year **2011-2012** at UT Austin.
- Awarded the *Academic Excellence Award* for the academic years **2007-08, 2006-07** at IIT Kanpur
- Secured an All India Rank of **318** in the *Joint Entrance Examination(JEE)* for the Indian Institutes of Technology
- Awarded a *Certificate of Merit* by the *Indian Association of Physics Teachers(IAPT)* for being placed in the top 1% students in the *National Standard Examination in Physics*(NSEP - Physics Olympiad) in 2006
- Awarded *scholarship* for High School and Undergraduate studies under the *National Talent Search Scheme(NTSE)* for the year **2004**

TEACHING EXPERIENCE

Teaching Assistant, CS 303E - Elements of Computers and Programming   Fall 2016
The University of Texas at Austin

Teaching Assistant, CS 378 - Statistical Learning and Data Mining   Spring 2013
The University of Texas at Austin

Teaching Assistant, ESC 101 - Fundamentals of Computing   Fall 2010
Indian Insitute of Technology Kanpur

RELEVANT COURSES

Graduate Courses Done at UT
Game Theory, Algorithms for Computational Biology, Algorithms: Techniques and Theory, Advanced Probability: Learning, Inference and Networks, Numerical Analysis : Linear Algebra, Sparsity,Structure and Algorithms, Combinatorics and Graph Theory, Learning Theory, Convex Optimization Theory

TECHNICAL SKILLS
- **Programming Languages** : C, C++, C#, Java, Python
- **Other Tools** : Matlab, SQL, LaTeX

References Available upon request