

Rashish Tandon

CONTACT INFORMATION	CS 2NEo3C, ACES Department of Computer Science The University of Texas at Austin 1616 Guadalupe, Suite 2.408 Austin, TX 78701	Phone: (512) 913-9610 E-mail: rashish@cs.utexas.edu WWW: www.cs.utexas.edu/~rashish
RESEARCH INTERESTS	Statistical Machine Learning, Optimization, Algorithms	
EDUCATION	The University of Texas at Austin M.S./Ph.D. in Computer Science <ul style="list-style-type: none">Cumulative GPA : 3.945/4.0Advisor : Pradeep Ravikumar Indian Institute of Technology Kanpur B.Tech/M.Tech (Dual Degree) in Computer Science and Engineering <ul style="list-style-type: none">Cumulative GPA : 9.6/10.0	2011 - 2016 2006 - 2011
HONORS AND AWARDS	<ul style="list-style-type: none">Recipient of <i>Microelectronics and Computer Development (MCD) Fellowship</i> for academic year 2011-2012 at UT Austin.Awarded the <i>Academic Excellence Award</i> for the academic years 2007-08, 2006-07 at IIT KanpurSecured an All India Rank of 318 in the <i>Joint Entrance Examination(JEE)</i> for the Indian Institutes of TechnologyAwarded a <i>Certificate of Merit</i> by the <i>Indian Association of Physics Teachers(IAPT)</i> for being placed in the top 1% students in the <i>National Standard Examination in Physics</i>(NSEP - Physics Olympiad) in 2006Awarded <i>scholarship</i> for High School and Undergraduate studies under the <i>National Talent Search Scheme(NTSE)</i> for the year 2004	
PAPERS	On the Difficulty of Learning Power-Law Graphical Models , with <i>Pradeep Ravikumar</i> . (submitted) L¹-CCCP : L¹-Concave Convex Procedure , with <i>Yoshinobu Kawahara</i> and <i>Kiyohito Nagano</i> . (in preparation)	
INTERNSHIPS	Visitor, ISIR, Osaka University, Osaka, Japan <ul style="list-style-type: none">Worked on energy minimization (MAP inference in graphical models) through discrete convex methods (<i>working paper</i>)Advisor : Prof. Yoshinobu Kawahara Research Intern, MPI for Biological Cybernetics, Tübingen, Germany <ul style="list-style-type: none">Worked on algorithms for Sparse Nonnegative Matrix FactorizationAdvisor : Dr. Suvrit SraReport : http://www.cs.utexas.edu/~rashish/nmfreport.pdf Software Development Intern, Microsoft Bing, Redmond, WA, USA <ul style="list-style-type: none">Worked in the <i>Distributed Data Storage and Computation Team</i>Advisor : Daniel D. Constantin	June 2011 May - Jul 2010 May - Jul 2009

Student Intern, *University of Melbourne, Melbourne, Australia*

May - Jul 2008

- Investigated and implemented querying and storage methods for a large number of data clusterings
- Advisor : Prof. James Bailey

PROJECTS

Projects done at UT

A Survey on Sparse PCA (*course project*)

- Report : http://www.cs.utexas.edu/~rashish/sparse_pca.pdf

Bandit Problems - a survey (*course project*)

- *with Harsh Pareek*
- Slides : <http://www.cs.utexas.edu/~rashish/bandit.pdf>

Smoothed Analysis of Algorithms and the Fujishige-Wolfe Algorithm to Minimize Submodular Functions (*course project*)

- *with Pravesh Kothari*
- Report : <http://www.cs.utexas.edu/~rashish/smooth.pdf>

Projects done at IIT

Please visit <http://www.cs.utexas.edu/~rashish/projects.html>

TEACHING EXPERIENCE

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

Spring 2013

Teaching Assistant, ESC 101 - Fundamentals of Computing
Indian Institute of Technology Kanpur

Fall 2010

- Taught programming in C to a class of 35 students
- Also involved in performance evaluation, designing assignments, labs and examination questions

RELEVANT COURSES

Courses Done at UT

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

* - corresponds to courses in the current semester

Courses Done at IIT

Data Streaming Algorithms and Systems, Randomized Algorithms, Computer Vision and Image Processing, Finite Automata on Infinite Inputs, Computer Systems Security, Quantum Computing, Machine Learning and Knowledge Discovery, Principles of Database Systems, Algorithms - I & II, Artificial Intelligence, Digital Image Processing, Theory of Computation, Discrete Mathematics, Differential Equations, Real Analysis and Multivariate Calculus, Complex Analysis and Linear Algebra

TECHNICAL SKILLS

- **Programming Languages** : C, C++, C#, Java
- **Other Tools** : Matlab, SQL, L^AT_EX, Windows Presentation Foundation(WPF)

References Available upon request