

Si Si

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EDUCATION

- Ph.D. Dept. of Computer Science, The University of Texas at Austin** 2010 - present
Center of Big Data Analytics
Advisor: Prof. Inderjit S. Dhillon
- M.Phil. Dept. of Computer Science, The University of Hong Kong** 2008 - 2010
Machine Learning and Data Mining Group
Advisors: Prof. Dacheng Tao and Prof. Kwok-Ping Chan
- B.S. Dept of Computer Science, University of Sci. & Tech. of China (USTC), China** 2004 - 2008

RESEARCH AND INDUSTRY EXPERIENCE

- Research Assistant in the University of Texas at Austin** 2010 - Present
- **Advisor:** Prof. Inderjit Dhillon
- Develop fast and scalable algorithms for large-scale machine learning.
- Internship in Microsoft, Mountain View** Jun. 2015 - Aug. 2015
- **Mentors:** Dr. Keerthi Selvaraj and Dr. Dhruv Mahajan
- Worked on multi-label learning problems.
- Investigated gradient boosted machines.
- Internship in eBay Research Labs, San Jose** May 2012 - Aug. 2012 && Jun 2013 - Aug 2013
- **Mentor:** Dr. Atish Das Sarma
- Investigated Matrix factorization for e-commerce data.
- Analyze the information flow between social networks and e-commerce platform.
- Exchange Student in Nanyang Technological University, Singapore** Sep. 2009 - Dec. 2009
- **Advisor:** Prof. Dacheng Tao
- Matrix Factorization.
- Research Assistant in the University of Hong Kong** 2008 - 2010
- **Advisors:** Prof. Dacheng Tao and Prof. Kwok-Ping Chan
- Transfer learning and Dimensionality reduction.

PUBLICATIONS

- [1] Si Si, Donghyk Shin, Inderjit S. Dhillon, and Beresford N. Parlett, "*Multi-Scale Spectral Decomposition of Massive Graphs*", in NIPS 2014.
- [2] Cho-Jui Hsieh, Si Si, and Inderjit S. Dhillon, "*Fast Prediction for Large-Scale Kernel Machines*", in NIPS 2014.
- [3] Si Si, Cho-Jui Hsieh, and Inderjit S. Dhillon, "*Memory Efficient Kernel Approximation*", in ICML 2014.

- [4] Cho-Jui Hsieh, Si Si, and Inderjit S. Dhillon, "A Divide-and-Conquer Solver for Kernel Support Vector Machines", in ICML 2014.
- [5] Si Si, Atish Das Sarma, Elizabeth F. Churchill, Neel Sundaresan, "Beyond Modeling Private Actions: Predicting Social Shares", in WWW 2014(short paper).
- [6] Atish Das Sarma, Si Si, Elizabeth F. Churchill, Neel Sundaresan, "The expression gap: do you like what you share?", in WWW 2014(short paper).
- [7] Hsiang-Fu Yu, Cho-Jui Hsieh, Si Si, and Inderjit S. Dhillon, "Scalable Coordinate Descent Approaches to Parallel Matrix Factorization for Recommender Systems", in Knowledge and Information Systems, 41(3): 793-819 (2013).
- [8] Hsiang-Fu Yu, Cho-Jui Hsieh, Si Si, and Inderjit S. Dhillon, "Scalable Coordinate Descent Approaches to Parallel Matrix Factorization for Recommender Systems", in ICDM 2012.(**best paper award**)
- [9] Si Si, Dacheng Tao and Kwok-Ping Chan, "Social image annotation via cross-domain subspace learning", in Multimedia Tools and Applications, 56(1): 91-108(2012).
- [10] Donghyk Shin, Si Si, and Inderjit S. Dhillon, "Multiscale Link Prediction", in CIKM 2012.
- [11] Si Si, Liu Wei, Dacheng Tao and Kwok-Ping Chan, "Distribution Calibration in Riemannian Symmetric Space", in IEEE Transactions on Systems, Man, and Cybernetics, Part B: Cybernetics, 41(4): 921-930 (2011).
- [12] Si Si, Dacheng Tao and Bo Geng, "Bregman Divergence Based Regularization for Transfer Subspace Learning", in IEEE Transactions on Knowledge and Data Engineering, 22(7): 929-942 (2010).
- [13] Si Si, Dacheng Tao and Kwok-Ping Chan, "Cross-domain Face Recognition and Image Annotation by using Dimension Reduction", in IEEE Transactions on Image Processing, 19(4): 1075-1086 (2010).
- [14] Si Si, Dacheng Tao and Kwok-Ping Chan, "Discriminative Hessian Eigenmaps for Face Recognition", in ICASSP, 2010.
- [15] Si Si, Dacheng Tao and Kwok-Ping Chan, "Transfer Discriminative Logmaps", in PCM, 2009.

AWARDS AND HONORS

- Best Paper Award in IEEE ICDM 2012. 2012
- MCD fellowship in UT-Austin. 2010 - 2013
- Best Paper Award in ICDM workshop on Internet Multimedia Mining. 2009
- The Postgraduate Scholarship in HKU. 2008 - 2010
- Outstanding Undergraduate Student Scholarship (golden, awarded for GPA in the top 5% of class) in USTC. 2005-2007

TEACHING EXPERIENCE

- Fall 2012,2013,2014(TA): SDS 329C, Practical Linear Algebra
- Fall 2011 (TA): CS301K, Foundations of Logical Thought
- Spring 2011 (TA): CS313K, Mathematical Tools for Computer Science
- Fall 2010 (TA): CS307, Introduction to Computer Science
- Fall 2009 (TA): CSIS1120A, Assembly Language Programming

SKILLS

- Programming: C/C++, MATLAB