Shusen Wang (王树森)

Postdoc Department of Statistics University of California, Berkeley Berkeley, CA, USA

Education \diamond **PhD**, in 2016

College of Computer Science and Technology, Zhejiang University, China.

E-mail: shusen@berkeley.edu

Homepage: wangshusen.github.io

Advisor: Prof. Zhihua Zhang

♦ Bachelor of Engineering, in 2011

Zhejiang University, China.

WORK ♦ 07/2016—Now: Postdoc, with Michael Mahoney.

EXPERIENCE Department of Statistics, UC Berkeley.

05/2014—08/2015: Research intern, with Professor Tong Zhang. Baidu Big Data Lab, Beijing, China.

 \diamond 02/2012—08/2012: Research intern, Google Research, Beijing, China.

♦ 08/2011—02/2012: Intern, with Dr. Haixun Wang and Dr. Yangqiu Song. Microsoft Research Asia (MSRA), Beijing, China.

Research \diamond Machine learning

HONORS & ◇ 2014 Baidu Scholarship, award to 8 Chinese students around the world

 \diamond 2013 Microsoft Research Asia Fellow, 10 winners out of over 100 candidates from 45 leading academic institutions in East Asia.

♦ 2012, 2013, 2014 National Scholarship for Graduate Students, three times.

Scholarship Award for Excellent Doctoral Student Granted by Ministry of Education,
25 winners from all majors in Zhejiang University.

♦ 2011 Excellent Bachelor Thesis in Zhejiang University (100 from 5,000 students in all majors)

ACADEMIC SERVICE

AWARDS

 $\diamond~$ Reviewer of NIPS 2014, 2015, IJCAI 2015, Journal of Machine Learning Research.

Journal Papers SPSD Matrix Approximation vis Column Selection: Theories, Algorithms, and Extensions. Shusen Wang, Luo Luo, and Zhihua Zhang. Journal of Machine Learning Research, 17(49):1-49, 2016. (JMLR 2016).

♦ Improving CUR Matrix Decomposition and Nyström Approximation via Adaptive Sampling. Shusen Wang and Zhihua Zhang.

Journal of Machine Learning Research, 14: 2729-2769, 2013. (JMLR 2013).

EP-GIG Priors and Applications in Bayesian Sparse Learning.
Zhihua Zhang, Shusen Wang, Dehua Liu, and Michael I. Jordan.
Journal of Machine Learning Research, 13: 2031-2061, 2012. (JMLR 2012).

Conference Open Domain Short Text Conceptualization: A Generative + Descriptive Modeling Appapers proach.

Yangqiu Song, Shusen Wang, and Haixun Wang.

In the International Joint Conference on Artificial Intelligence, 2015. (IJCAI 2015).

♦ Improving the Modified Nyström Method Using Spectral Shifting.

Shusen Wang, Chao Zhang, Hui Qian, and Zhihua Zhang.

In Proceedings of the 20th ACM SIGKDD Conference on Knowledge Discovery and Data Mining, 2014. (KDD 2014).

♦ Efficient Algorithms and Error Analysis for the Modified Nyström Method.

Shusen Wang and Zhihua Zhang.

In Proceedings of the 17th International Conference on Artificial Intelligence and Statistics, JMLR W&CP, 2014. (AISTATS 2014).

♦ Making Fisher Discriminant Analysis Scalable.

Bojun Tu, Zhihua Zhang, **Shusen Wang**, and Hui Qian.

In the International Conference on Machine Learning, 2014. (ICML 2014).

♦ Exact Subspace Clustering in Linear Time.

Shusen Wang, Bojun Tu, Congfu Xu, and Zhihua Zhang.

In the 28th AAAI Conference on Artificial Intelligence, 2014. (AAAI 2014).

♦ Using The Matrix Ridge Approximation to Speedup Determinantal Point Processes Sampling Algorithms.

Shusen Wang, Chao Zhang, Hui Qian, and Zhihua Zhang.

In the 28th AAAI Conference on Artificial Intelligence, 2014. (AAAI 2014).

♦ Transfer Understanding from Head Queries to Tail Queries.

Yangqiu Song, Haixun Wang, Weizhu Chen, and Shusen Wang.

In ACM International Conference on Information and Knowledge Management, 2014. (CIK-M 2014).

♦ Nonconvex Relaxation Approaches to Robust Matrix Recovery.

Shusen Wang, Dehua Liu, and Zhihua Zhang.

In the International Joint Conference on Artificial Intelligence, 2013. (IJCAI 2013).

 \diamond A Scalable CUR Matrix Decomposition Algorithm: Lower Time Complexity and Tighter Bound.

Shusen Wang and Zhihua Zhang.

In Advances in Neural Information Processing Systems 25, 2012. (NIPS 2012).

♦ Colorization by Matrix Completion.

Shusen Wang and Zhihua Zhang.

In the 26th AAAI Conference on Artificial Intelligence, 2012. (AAAI 2012).

♦ Efficient Subspace Segmentation via Quadratic Programming.

Shusen Wang and Xiaotong Yuan, Tiansheng Yao, Shuicheng Yan, Jialie Shen.

In the 25th AAAI Conference on Artificial Intelligence, 2011. (AAAI 2011).

Preprints

♦ Towards More Efficient SPSD Matrix Approximation and CUR Matrix Decomposition. Shusen Wang, Zhihua Zhang, and Tong Zhang. arXiv:1503.08395, 2015.

♦ Improved Analyses of the Randomized Power Method and Block Lanczos Method. Shusen Wang, Zhihua Zhang, and Tong Zhang. arXiv:1508.06429, 2015.