

# Lei Shi

## Contact Information

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## Education

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**Chinese Academy of Sciences**, Beijing, China 09/2012 - Present

- Ph.D. student, Computer Science, Institute of Software
- Advisor: Prof. Yi-Dong Shen

**Wuhan University**, Wuhan, China 09/2008 - 06/2012

- B.Eng., Computer Science, School of Computer
- Thesis: Container Ship Stowage Planning Based on Multi-Strategy (**Outstanding Thesis Award**)

## Research Interests

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Natural Language Processing, Recommender Systems,  
Machine Learning

## Research Experience

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**Institute of Software, Chinese Academy of Sciences** 09/2012-present

- Research Assistant, work with Prof. Yi-Dong Shen.
- Work on active learning with diversified experimental design. Paper published in IJCAI 2016.
- Work on robust unsupervised feature selection. Paper published in ICDM 2014.

**Microsoft Research Asia (MSRA)** 04/2013-01/2014

- Research Intern, work with Dr. Shuming Shi and Dr. Chin-Yew Lin in Knowledge Mining Group.
- Work on large scale short text understanding. Paper published in EMNLP 2014.

**Search Technology Center, Microsoft** 11/2011-04/2012

- Research Intern, work with Dr. Litian Tao and Dr. Xin-jing Wang in Multimedia Relevance Team.
- Work on the project of improving the search relevance of Bing in image verticle.

## Conference and Journal Papers

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- **Lei Shi**, Xin Zhao and Yi-Dong Shen. Local Representative Matrix Factorization for Cold-Start Recommendation.
- **Lei Shi** and Yi-Dong Shen. Diversifying Convex Transductive Experimental Design for Active Learning. The Twenty-Fifth International Joint Conference on Artificial Intelligence (**IJCAI 2016**), New York City, USA, July 9-15, 2016.

- Liang Du, Peng Zhou, **Lei Shi**, Hanmo Wang, Mingyu Fan, Wenjian Wang, Yi-Dong Shen. Robust Multiple Kernel K-means Clustering using  $\ell_{21}$ -norm. The Twenty-Fourth International Joint Conference on Artificial Intelligence (**IJCAI 2015**), Buenos Aires, Argentinean, July 25-31, 2015.
- **Lei Shi**, Liang Du and Yi-Dong Shen. Robust Spectral Learning for Unsupervised Feature Selection. The 14th IEEE International Conference on Data Mining (**ICDM 2014**), Shenzhen, China, December 14-17, 2014.
- **Lei Shi**, Shuming Shi, Chin-Yew Lin, Yi-Dong Shen and Yong Rui. Unsupervised Template Mining for Semantic Category Understanding. The 2014 Conference on Empirical Methods in Natural Language Processing (**EMNLP 2014**), Doha, Qatar, October 26-28, 2014.
- Wenbin Hu, Zhengbing Hu, **Lei Shi**, Peng Luo and Wei Song. Combinatorial Optimization and Strategy for Ship Stowage and Loading Schedule of Container Terminal. Journal of Computers, Vol 7, No 8(2012), 2078-2092

## Workshop Papers

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- Dilin Wang, **Lei Shi** and Jianwen Cao. Fast Algorithm for Approximate k-Nearest Neighbor Graph Construction. Data Mining in Networks workshop, the 13th IEEE International Conference on Data Mining (**ICDM 2013**), TX, USA, December 7-10, 2013.

## Contest Awards

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- 7th Place in Alibaba Big Data Contest, 2014 (Top 10 in 7274 teams)
- 3rd Place in Baidu Movie Recommendation Algorithm Contest, 2013
- 3rd Prize in National Undergraduate Information Security Contest, 2011

## Selected Honors

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- National Scholarship for Ph.D. Students, 2016
- IEEE ICDM 2014 Student Travel Award, 2014
- EMNLP 2014 Student Travel Award, 2014
- Outstanding Undergraduate Thesis, Hubei Province, 2012 (5 out of 278 students)
- Outstanding Graduate of Wuhan University, 2012
- National Scholarship, 2010 (4 out of 278 students)
- Academic Excellence Scholarship of Wuhan University, 2009, 2010, 2011

## Patent

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CN102164125A: A System for Secure Communication using Asgka Protocol, 2011

## Professional Service

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Reviewer for AAAI'16-17, IJCAI'16, KDD'14-16, PAKDD'14

## Programming Skills

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C, C++, C#, Python, Matlab, Java