

# Jing LI

PHD CANDIDATE · NANYANG TECHNOLOGICAL UNIVERSITY (NTU), SINGAPORE

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*"All things are difficult before they are easy!"*

## Interests

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### 1. Information Retrieval / Natural Language Processing

- Question answering based on Deep Learning
- Semantic search
- Named entity recognition
- Knowledge graph

### 2. Software Engineering

- API Documentation mining
- Human and social aspects of software engineering

### 3. Signal Processing

- Multiple-input and multiple-output (MIMO) signal
- Compressed sensing

## Education

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### Ph.D.

*Nanyang Technological University (NTU), Singapore*

MAJORING IN COMPUTER SCIENCE

*Dec. 2013 - Dec. 2017*

- Thesis: Supporting Information Needs of Developers through Web Q&A Discussions
- Advisors: Aixin Sun and Zhenchang Xing

### M.Eng.

*University of Electronic Science and Technology of China (UESTC), China*

MAJORING IN ELECTRICAL ENGINEERING

*Jul. 2010 - Jul. 2013*

- Thesis: SAR Imaging based on Compressed Sensing
- Excellent Thesis Award

### B.Eng.

*University of Electronic Science and Technology of China (UESTC), China*

MAJORING IN ELECTRICAL ENGINEERING

*Jul. 2006 - Jul. 2010*

## Honors & Awards

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|------|---|------------------|
| 2008 | <b>2nd Prize</b> , China Undergraduate Mathematical Contest in Modeling     | <i>China</i>     |
| 2010 | <b>Finalist</b> , Excellent Undergraduate Student Award in Sichuan Province | <i>China</i>     |
| 2012 | <b>Finalist</b> , Graduate National Scholarship                             | <i>China</i>     |
| 2014 | <b>Finalist</b> , Singapore Research Scholarship                            | <i>Singapore</i> |
| 2016 | <b>Finalist</b> , SIGAPP Student Travel Award                               | <i>ACM</i>       |

## Publications

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-J: Journal -C: Conference

### 26-C API Caveat Explorer: Surfacing Negative Usages from Practice

Jing Li, Aixin Sun, Zhenchang Xing and Lei Han  
SIGIR 2018. Under Review

### 25-C SegBot: A Generic Neural Text Segmentation Model with Pointer Network

Jing Li, Aixin Sun and Shafiq Joty  
IJCAI 2018. Under Review

### 24-C Discourse Segmentation by Pointer Network

Jing Li, Aixin Sun and Shafiq Joty  
IJCAI 2018. Under Review

- 23-J **Learning to Answer Programming Questions with Software Documentation through Social Context Embedding**  
Jing Li, Aixin Sun and Zhenchang Xing  
*Information Sciences (INS)*. Volumes 448–449, Pages 36-52, June 2018, Elsevier. (IF: 4.832)
- 22-J **Leveraging Official Content and Social Context to Recommend Software Documentation**  
Jing Li, Zhenchang Xing and Ashad Kabir  
*IEEE Transactions on Services Computing (TSC)*. IEEE, 2018. DOI: 10.1109/TSC.2018.2812729. (IF: 3.520)
- 21-J **To Do or Not To Do: Distill Crowdsourced Negative Caveats to Augment API Documentation**  
Jing Li, Aixin Sun and Zhenchang Xing  
*Journal of the Association for Information Science and Technology (JASIST)*. Wiley, 2018. To appear. (IF: 2.322)
- 20-J **LinkLive: Discovering web learning resources for developers from Q&A discussions**  
Jing Li, Zhenchang Xing and Aixin Sun  
*World Wide Web Journal (WWWJ)*. Springer, 2018. To appear. (IF: 1.405)
- 19-C **From Discussion to Wisdom: Web Resource Recommendation for Hyperlinks in Stack Overflow**  
Jing Li, Zhenchang Xing, Deheng Ye and Xuejiao Zhao  
*The 31st ACM Symposium on Applied Computing (SAC 2016)*. pp. 1127-1133. Acceptance rate: 252/1047 (24.07%).
- 18-C **BPMIner: Mining Developers' Behavior Patterns from Screen-Captured Task Videos**  
Jing Li, Lingfeng Bao, Zhenchang Xing, Xinyu Wang and Bo Zhou  
*The 31st ACM Symposium on Applied Computing (SAC 2016)*. pp. 1371-1377. Acceptance rate: 252/1047 (24.07%).
- 17-J **Extracting and Analyzing Time-Series HCI Data from Screen-Captured Task Videos**  
Lingfeng Bao, Jing Li, Zhenchang Xing, Xinyu Wang, Xin Xia and Bo Zhou  
*Empirical Software Engineering (EMSE Journal)*, Springer, 2016. pp.1-41. (2016 IF: 3.275)
- 16-C **scvRipper: Video Scraping Tool for Modeling Developers' Behavior Using Interaction Data**  
Lingfeng Bao, Jing Li, Zhenchang Xing, Xinyu Wang and Bo Zhou  
*The 37th International Conference on Software Engineering (ICSE 2015) Demo*, vol.2, pp. 673-676.
- 15-C **Reverse Engineering Time-Series Interaction Data from Screen-Captured Videos**  
Lingfeng Bao, Jing Li, Zhenchang Xing, Xinyu Wang and Bo Zhou  
*The 22nd IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER 2015)*, pp. 399-408. Acceptance rate: 46/144 (32%).
- 14-C **Learning to Extract API Mentions from Informal Natural Language Discussions**  
Deheng Ye, Zhenchang Xing, Chee Yong Foo, Jing Li and Nachiket Kapre  
*The 32nd International Conference on Software Maintenance and Evolution (ICSME 2016)*. Vol. 1, pp. 90-101. Acceptance rate: 37/125 (29%).
- 13-C **Software-specific Named Entity Recognition in Software Engineering Social Content**  
Deheng Ye, Zhenchang Xing, Chee Yong Foo, Zi Qun Ang, Jing Li and Nachiket Kapre  
*The 23rd IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER 2016)*. Vol. 1, pp. 90-101. Acceptance rate: 52/140 (37%).
- 12-C **Software-specific Part-of-speech Tagging: An Experimental Study on Stack Overflow**  
Deheng Ye, Zhenchang Xing, Jing Li and Nachiket Kapre  
*The 31st ACM Symposium on Applied Computing (SAC 2016)*. pp. 1378-1385. Acceptance rate: 252/1047 (24.07%).
- 11-C **HDSKG: Harvesting Domain Specific Knowledge Graph from Content of Webpages**  
Xuejiao Zhao, Zhenchang Xing, Muhammad Ashad Kabir, Shangwei Lin, Jing Li and Naoya Sawada  
*The 24th IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER 2017)*. Acceptance rate: 34/140 (24.3%).

#### **Before Ph.D.**

- 10-J **Applications of Compressed Sensing for Multiple Transmitters Multiple Azimuth Beams SAR Imaging**  
Jing Li, Shunsheng Zhang, Junfei Chang  
*Progress In Electromagnetics Research (PIER)*, Vol. 127, pp. 259-275, 2012. (2011 IF: 5.298)
- 9-J **Forward-Looking Bistatic SAR Imaging Based On High Order Range Equation And High Order Phase Compensation**  
Shunsheng Zhang and Jing Li\*

- 8-J **Two-Dimensional High Resolution Bistatic SAR Imaging Algorithm Based on Compressed Sensing**  
Jing Li, Shunsheng Zhang and Junfei Chang  
*Chinese Signal Processing*, vol.28, no.5, pp. 737-743, 2012.
- 7-J **Compressed Sensing for Multiple Azimuth Beams SAR Imaging**  
Shunsheng Zhang, Junfei Chang, and Jing Li  
*Chinese Journal of Radio Science*, vol.27, no.5, pp. 979-984, 2012.
- 6-C **Two-Dimensional Random Sparse Sampling for High resolution SAR Imaging based on Compressed Sensing**  
Jing Li, Shunsheng Zhang and Junfei Chang, *IEEE Radar Conference (RadarCon)*, pp.01-05, 2012.
- 5-C **A Novel Two Dimensional Imaging Algorithm Based on Compressed Sensing for Multi-Channel SAR**  
Jing Li, Shunsheng Zhang and Junfei Chang  
*The 9th European Conference on Synthetic Aperture Radar (EUSAR 2012)*, pp.619-622, 2012.
- 4-C **Bistatic Forward-Looking SAR Imaging Based on Two-Dimensional Principle of Stationary Phase**  
Jing Li and Shunsheng Zhang  
*2012 International Workshop on Microwave and Millimeter Wave Circuits and System Technology (MMWCST2012)*, pp. 107-110, 2012
- 3-C **Geosynchronous SAR image formation based on advanced hyperbolic range equation**  
Xiu Wu, Shunsheng Zhang, Jing Li and Wenchen Cao  
*2012 IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*, pp. 4042-4045, 2012
- 2-C **Empirical Study on the Distribution and Growth Trend of Biotechnology Patents in China**  
Zhongguo Shi and Jing Li  
*iBusiness*, vol. 4 no. 2, pp. 93-97, 2012.
- 1-C **A Novel SAR Imaging Algorithm Based on Compressed Sensing**  
Junfei Chang, Wei Zhang, Shunsheng Zhang and Jing Li  
*2011 IEEE CIE International Conference on Radar (Radar)*, pp. 1467-1470, 2011.

## Teaching / Tutoring Experience

- **2015-2017: Software Engineering, NTU, Singapore**
  - Lab assistant
  - Helping to determine course content
  - Creating and preparing homework assignments and exams
- **2011-2013: Signal and Information Processing, UESTC, China**
  - Teaching recitations
  - Lab assistant
  - Grading assignments

## References

Aixin Sun, Ph.D. Associate Professor, School of Computer Science and Engineering , Nanyang Technological University, Singapore. Phone: (+65) 6790 5139 Email: axsun@ntu.edu.sg	Zhenchang Xing, Ph.D. Senior Lecturer, College of Engineering and Computer Science, Australian National University, Australia Phone: (+61)261255692 Email: zhenchang.xing@anu.edu.au	Shunsheng Zhang, Ph.D. Associate Professor, University of Electronic Science and Technology of China, China Email: zhangss@uestc.edu.cn
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