

# Weiwei Sun

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## Education

Doctor of Engineering of the Faculties of Natural Sciences and Technology, Saarland University

Dissertation: *Learning Chinese Language Structures with Multiple Views*

Supervisor: Prof. Dr. Hans Uszkoreit

Major: Computational Linguistics

October 2009–April 2012

Master of Science in School of Electronics Engineering and Computer Science, Peking University

Thesis: *Semantic Role Labeling Using Different Syntactic Views*

Supervisor: Prof. Dr. Zhifang Sui

Major: Computer Theory and Application

September 2006–July 2009

Bachelor of Arts in Department of Chinese Language and Literature, Peking University

Major: Computational and Applied Linguistics

September 2002–July 2006

Bachelor of Science in School of Electronics Engineering and Computer Science, Peking University

Double Major: Computer Software

September 2003–July 2006

## Working Experiences

Visiting student at Toshiba (China) R&D Center, Nov. 2007–March 2008

Research assistant, Language Technology Lab, German Research Center for Artificial Intelligence, Oct. 2009–Feb. 2012

Lecturer, Institute of Computer Science & Technology, Peking University, Feb. 2012–July 2015

Associate Professor, Institute of Computer Science & Technology, Peking University, since Aug. 2015

Visiting Associate Professor, Department of Linguistics and Translation, City University of Hong Kong, Nov. 2016–Dec. 2016

## Publications<sup>1</sup>

### Journal Articles

- ♠ Xun Zhang, Yantao Du, **Weiwei Sun**<sup>\*</sup>, Yantao Du and Xiaojun Wan. 2016. Transition-based Parsing for Deep Dependency Structures. *Computational Linguistics*.
- ♡ **Weiwei Sun** and Xiaojun Wan. 2016. Towards Accurate and Efficient Chinese Part-of-speech Tagging. *Computational Linguistics*.
- ♡ **Weiwei Sun** and Xiaojun Wan. 2013. Data-driven, PCFG-based and Pseudo-PCFG-based Models for Chinese Dependency Parsing. *Transactions of the Association for Computational Linguistics (TACL)*.
- ♡ Lulu Wang, **Weiwei Sun** and Yulin Yuan. 2014. On automatic interpretation and pattern alternation of Chinese ba-Construction. *Computer Engineering and Applications*. (in Chinese)
- ♡ Meng Wang, Shiwen Yu, Huiming Duan, and **Weiwei Sun**. 2008. Quantitative Research on Grammatical Characteristics of Noun in Contemporary Chinese. *Journal of Chinese Information Processing*. (in Chinese)
- ♡ Tieliang Ji, **Weiwei Sun**, and Zhifang Sui. 2007. The Acquisition of Chinese Verbs' Subcategorization Lexion Based on Linguistic Theory and Statistical Algorithm. *Journal of Chinese Information Processing*. (in Chinese)

### Proceedings

- ♠ Junjie Cao, Sheng Huang, **Weiwei Sun**<sup>\*</sup> and Xiaojun Wan. 2017. Parsing to 1-Endpoint-Crossing, Pagenumber-2 Graphs. In *Proceedings of the 55th Annual Meeting of the Association for Computational Linguistics (ACL)*.
- ♠ **Weiwei Sun**, Junjie Cao and Xiaojun Wan. 2017. Semantic Dependency Parsing via Book Embedding. In *Proceedings of the 55th Annual Meeting of the Association for Computational Linguistics*.
- ♠ Xun Zhang, **Weiwei Sun**<sup>\*</sup> and Xiaojun Wan. 2017. The Covert Helps Parse the Overt. In *Proceedings of the 21th Conference on Computational Natural Language Learning (CoNLL)*.
- ♠♡ **Weiwei Sun**, Yantao Du and Xiaojun Wan. 2017. Parsing for Grammatical Relations via Graph Merging. In *Proceedings of the 21th Conference on Computational Natural Language Learning (CoNLL)*.
- ♠ Yantao Du, **Weiwei Sun**<sup>\*</sup> and Xiaojun Wan. 2015. A Data-driven, Factorization Parser for CCG Dependency Structures. In *Proceedings of the conference of the 53th Annual Meeting of the Association for Computational Linguistics (ACL)*.
- ♠ Yantao Du, Fan Zhang, Xun Zhang, **Weiwei Sun**<sup>\*</sup> and Xiaojun Wan. 2015. Peking: Building Semantic Dependency Graphs with a Hybrid Parser. 2015 In *Proceedings of the 9th International Workshop on Semantic Evaluation (SemEval 2015)*.
- ♠♡ **Weiwei Sun**, Yantao Du, Xin Kou, Shuoyang Ding and Xiaojun Wan. 2014. Grammatical Relations in Chinese: GB-Grounded Extraction and Data-Driven Parsing. In *Proceedings of the conference of the 52th Annual Meeting of the Association for Computational Linguistics (ACL)*.
- ♠ Yantao Du, Fan Zhang, **Weiwei Sun** and Xiaojun Wan. 2014. Peking: Profiling Syntactic Tree Parsing Techniques for Semantic Graph Parsing. In *Proceedings of the 8th International Workshop on Semantic Evaluation (SemEval 2014)*.

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<sup>1</sup> \*: Corresponding author. ♠: Parsing for Deep Linguistic Structures. ♡: Chinese Language Processing. ♠♡: Machine Translation.

- ♡ **Weiwei Sun**, Xiaochang Peng and Xiaojun Wan. 2013. Capturing Long-distance Dependencies in Sequence Models: A Case Study of Chinese Part-of-speech Tagging. In *International Joint Conference on Natural Language Processing (IJCNLP)*.
- ◇ Minwei Feng, **Weiwei Sun**, and Hermann Ney. 2012. Semantic Cohesion Model for Phrase-based SMT. In *Proceedings of the 24th International Conference on Computational Linguistics (COLING)*.
- ♡ **Weiwei Sun** and Hans Uszkoreit. 2012. Capturing Paradigmatic and Syntagmatic Lexical Relations: Towards Accurate Chinese Part-of-Speech Tagging. In *Proceedings of the conference of the 50th Annual Meeting of the Association for Computational Linguistics (ACL)*.
- ♡ **Weiwei Sun** and Xiaojun Wan. 2012. Reducing Approximation and Estimation Errors for Chinese Lexical Processing with Heterogeneous Annotations. In *Proceedings of the conference of the 50th Annual Meeting of the Association for Computational Linguistics (ACL)*.
- ♡ **Weiwei Sun** and Jia Xu. 2011. Enhancing Chinese Word Segmentation with Using Unlabeled Data. In *Proceedings of the conference on Empirical Methods on Natural Language Processing (EMNLP)*.
- ♡ **Weiwei Sun**. 2011. A Stacked Sub-word Model for Joint Chinese Word Segmentation and Part-of-Speech Tagging. In *Proceedings of the conference of the 49th Annual Meeting of the Association for Computational Linguistics (ACL)*.
- ◇ Jia Xu and **Weiwei Sun**. 2011. Generating virtual Parallel Corpus: A Compatibility Centric Method. In *Proceedings of the Machine Translation Summit XIII*.
- ♡ **Weiwei Sun**. 2010. Word-based and Character-based Word Segmentation Models: Comparison and Combination. In *Proceedings of the 23rd International Conference of Computational Linguistics (COLING)*.
- ♡ **Weiwei Sun**. 2010. Improving Chinese Semantic Role Labeling with Rich Syntactic Features. In *Proceedings of the conference of the 48th Annual Meeting of the Association for Computational Linguistics (ACL), short papers*.
- ♡ **Weiwei Sun**. 2010. Semantics-Driven Shallow Parsing for Chinese Semantic Role Labeling. In *Proceedings of the conference of the 48th Annual Meeting of the Association for Computational Linguistics (ACL), short papers*.
- ♡ **Weiwei Sun**, Rui Wang, and Yi Zhang. 2010. Discriminative Parse Reranking for Chinese with Homogeneous and Heterogeneous Annotations. In *Proceedings of the first CIPS-SIGHAN Joint Conference on Chinese Language Processing*.
- ♡ **Weiwei Sun**, Zhifang Sui, Meng Wang, and Xin Wang. 2009. Chinese Semantic Role Labeling with Shallow Parsing. In *Proceedings of the conference on Empirical Methods on Natural Language Processing (EMNLP)*.
- Weiwei Sun**, Zhifang Sui and Meng Wang. 2009. Prediction of Thematic Rank for Structured Semantic Role Labeling. In *Proceedings of the Joint conference of the 47th Annual Meeting of the Association for Computational Linguistics (ACL) and the 4th International Joint Conference on Natural Language Processing (IJCNLP), short papers*.
- ♡ **Weiwei Sun**, Zhifang Sui. 2009. Chinese Function Tag Labeling. In *Proceedings of the 23rd Pacific Asia Conference on Language, Information and Computation (PACLIC)*.
- Weiwei Sun**, Zhifang Sui, and Haifeng Wang. 2008. Prediction of Maximal Projection for Semantic Role Labeling. In *Proceedings of the 22nd International Conference of Computational Linguistics (COLING)*.

## Language Skills

Native in Mandarin

Fluent in English, Cantonese

## Activities

Vice Captain of Women's Soccer Team of Peking University, September 2004–May 2005.

Captain of Women's Soccer Team of Peking University, May 2005–September 2007.

## Honors

Wu Ruixi scholarship, September 2003.

Yang and Wang academician scholarship (top scholarship in Peking University), September 2008.

DAAD scholarship, Oct. 2009–Feb. 2012.

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