

# WEI SHI

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## RESEARCH INTERESTS

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Discourse Relation Parsing,  
Sentiment Analysis,  
Relation Extraction,  
Deep Learning methods for Natural Language Processing.

## EDUCATION

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**Saarland University**, Saarbrücken, Germany *July 2016 - present*

Ph.D candidate, Department of Language Science and Technology

Advisor: Prof. Dr. Vera Demberg

**University of Chinese Academy of Sciences**, Beijing, China *Sept. 2013 - June 2016*

M.Sc in Computer Science, Institute of Automation, Chinese Academy of Sciences (CASIA).

Thesis: *Research on Sentiment Analysis for Short Texts based on Deep Semantic Representations.*

Advisor: Prof. Dr. Hongwei Hao and Prof. Dr. Bo Xu

**Wuhan University**, Hubei, China *September 2008 - June 2012*

B.Eng in Automation, Department of Power and Mechanical Engineering.

Thesis: *Research on Distributed Consensus for Multi-Agent System with Time-Delays.*

Advisor: Dr. Li Ding

## RESEARCH EXPERIENCE

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**Research Staff Member** *July 2016 - present*

*Saarland University & SFB-1102*

- SFB-1102 "Information Density and Linguistic Encoding"  
Project B2: Cognitive Modelling of Information Density for Discourse Relations
- Focus on improving the performance of implicit discourse relation recognition with cross-lingual data augmentation and domain adaptation methods.

**Research Assistant** *July 2014 - June 2016*

*CASIA*

- Research on Text Analysis, including text classification, clustering, and retrieval. Especially focus on sentiment analysis with mixed objectives of autoencoder and classifiers.
- Intelligent Short-text Analysis System on Large-scale data. It consists of lots of functions like Word Segmentation, POS, Entity Extraction, Key-words Extraction, Document and Sentiment Classification.
- Direct Web-News Crawler.

## PUBLICATIONS

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- **Wei Shi**, Frances Yung and Vera Demberg. *Acquiring Annotated Data with Cross-lingual Explicitation for Implicit Discourse Relation Classification*. In Proceedings of The 7th Workshop on Rhetorical Structure Theory and Related Formalisms (DISRPT@NAACL-2019), Minneapolis, USA.
- **Wei Shi** and Vera Demberg. *Learning to Explicitate Connectives with Seq2Seq Network for Implicit Discourse Relation Classification*. In Proceedings of The 13th International Conference on Computational Semantics (IWCS-2019), Gothenburg, Sweden.

- **Wei Shi**, Frances Yung, Raphael Rubino, and Vera Demberg. *Using Explicit Discourse Relation Connectives in Translation for Implicit Discourse Relation Classification*. In Proceedings of The 8th International Joint Conference on Natural Language Processing (IJCNLP-2017), Taipei, Taiwan.
- **Wei Shi** and Vera Demberg. *On the Need of Cross Validation for Discourse Relation Classification*. In Proceedings of The 15th Conference of the European Chapter of the Association of Computational Linguistics (EACL-2017), Valencia, Spain.
- Peng Zhou, **Wei Shi**, Jun Tian, Zhengyu Qi, Bingchen Li, Hongwei Hao, and Bo Xu. *Attention-based Bidirectional Long Short-term Memory Networks for Relation Classification*. In Proceedings of The 54th Annual Meeting of the Association for Computational Linguistics (ACL-2016), Berlin, Germany.

## SKILLS

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Programming Language	Python, Java, and C/C++
Toolkits	Pytorch, Tensorflow, Keras, Theano, Git, and L <sup>A</sup> T <sub>E</sub> X
Language	Chinese(Native), English(Professional), German(Elementary)

## AWARDS

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Second Class "Outstanding Scholarship", Merit Student, Wuhan University, 2009  
 Third Class "Outstanding Scholarship", Merit Student, Wuhan University, 2010, 2011

## PROFESSIONAL ACTIVITIES

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PC member of IEEE TCSS, CoNLL-2018, NAACL-HLT-2019, ACL-2019 etc.

*Updated on Mar 28, 2019*