

WEI SHI

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RESEARCH INTERESTS

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

EDUCATION

Saarland University, Saarbücken, Germany *July 2016 - Oct. 2020 (expected)*
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 *Sept. 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

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.
To identify the seed html webpage, extract and add the urls into the waiting list for crawling based on an open-source Java-based framework WebMagic. Using Redis to store the waiting list of urls and also the news topics and contents.

PUBLICATIONS

- **Wei Shi** and Vera Demberg. *Next Sentence Prediction helps Implicit Discourse Relation Classification within and across Domains*. In Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing and 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP 2019, Poster), Hong Kong, China
- Fangzhou Zhai, Vera Demberg, Pavel Shkadzko, **Wei Shi** and Asad Sayeed. *A Hybrid Model for Globally Coherent Story Generation*. In Proceedings of the 2nd Workshop of Storytelling (StoryNLP@ACL-2019, Oral), Florence, Italy.
- **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 Discourse Relation Parsing and Treebank (DISRPT@NAACL-2019, Oral), 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, Oral), 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, Oral), 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, Poster), 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, Poster), Berlin, Germany.

CONFERENCE PRESENTATIONS

- Katharina Spalek, Beate Bergmann, **Wei Shi** and Vera Demberg. *'Only' Increases Expectations for Causal Coherence Relations*. Talk presented at Discourse Expectations: Theoretical, Experimental, and Computational Perspectives (DETEC), September 27-28, 2019, Berlin, Germany,

SKILLS

Programming Language	Python, Java, and C/C++
Toolkits	Pytorch, Tensorflow, Keras, Theano, Git, and L ^A T _E X
Language	Chinese(Native), English(Professional), German(Elementary)

AWARDS

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

PROFESSIONAL ACTIVITIES

PC member of IEEE TCSS, CoNLL-2018, 2019, NAACL-HLT-2019, ACL-2019, 2020 etc.