

WEI SHI

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RESEARCH INTERESTS

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

EDUCATION

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

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

- **Wei Shi** and Vera Demberg. *Next Sentence Prediction helps Implicit Discourse Relation Classification within and across Domains*. (in submission)
- Fangzhou Zhai, Vera Demberg, Pavel Shkadzko, **Wei Shi** and Asad Sayeed. *A Hybrid Model for Globally Coherent Story Generation*. (in submission)
- **Wei Shi**, Frances Yung and Vera Demberg. *Acquiring Annotated Data with Cross-lingual Explication 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

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, NAACL-HLT-2019, ACL-2019 etc.

Updated on Mar 28, 2019