Jiangming Liu

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EDUCATION	PhD, **University of Edinburgh**, UK.	Sep 2017 – Mar 2021(expected)

• Thesis: Understanding and Generating Natural Language in Discourse Representation Structures
• Adviser: Shay B. Cohen and Mirella Lapata

M.S. **Beijing JiaoTong University**, China.   Sep 2012 – Apr 2015
• Thesis: Japanese Case Grammar Constraints on Hierarchical Phrase-based Statistical Machine Translation
• Adviser: JinAn Xu

B.S. **Beijing JiaoTong University**, China.   Sep 2008 – Jul 2012

RESEARCH &WORK EXPERIENCE

Google Research,
Intern, mentor: Anirudh Ravula   Sep 2020 – Dec 2020
• *Pre-trained model for long document summarization*

Allen Institute for Artificial Intelligence, AllenNLP,
Intern, mentor: Matt Gardner   Aug 2019 – Nov 2019
• *Question and Answering on Reasoning over Documents*

Singapore University of Technology Design, NLP Group,
Research Assistant, mentor: Yue Zhang   May 2015 – Aug 2017
• *Syntactic parsing*

Northeastern University, NLP Group,
Visiting student, mentor: Tong Xiao   Jan 2015 – Feb 2015
• *Japanese-Chinese Statistical Machine Translation*

Chinese Academy of Sciences
Visiting student, mentors: Wenbin Jiang and Qun Liu   Nov 2013 – Dec 2014
• *Japanese Morphology Analysis and Dependency Analysis*

PUBLICATIONS

Jiangming Liu, Shay B. Cohen, Mirella Lapata. Text Generation from Discourse Representation Structures. In *Computational Linguistics (CL)*. 2021.

Jiangming Liu, Shay B. Cohen, Mirella Lapata, Johan Bos. Universal Discourse Representation Structure Parsing. In *Proceedings of the North American Chapter of the Association for Computational Linguistics (NAACL)*. Jun 2021.

Matt Gardner, Yoav Artzi, Victoria Basmov, Jonathan Berant, Ben Bogin, Sihao Chen, Pradeep Dasigi, Dheeru Dua, Yanai Elazar, Ananth Gottumukkala, Nitish Gupta, Hannaneh Hajishirzi, Gabriel Ilharco, Daniel Khashabi, Kevin Lin, **Jiangming Liu**, Nelson F. Liu, Phoebe Mulcaire, Qiang Ning, Sameer Singh, Noah A. Smith, Sanjay Subramanian, Reut Tsarfaty, Eric Wallace, Ally Zhang, Ben Zhou. Evaluating Models' Local Decision Boundaries via Contrast Sets. In *proceedings of the conference on Empirical Methods in Natural Language Processing (EMNLP)*. Nov 2020.

Jiangming Liu, Matt Gardner, Shay B. Cohen and Mirella Lapata. Multi-Step Inference for Reasoning Over Paragraphs. In *proceedings of the conference on Empirical Methods in Natural Language Processing (EMNLP)*. Nov 2020.

Jiangming Liu, Shay B. Cohen and Mirella Lapata. Dscorer: A Fast Evaluation Metric for Discourse Representation Structure Parsing. In *Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics (ACL)*. Jul 2020.

Qiankun Fu, Yue Zhang, **Jiangming Liu**, Meishan Zhang. DRTS Parsing with Structure-Aware Encoding and Decoding In *Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics (ACL)*. Jul 2020.

Jiangming Liu, Shay B. Cohen and Mirella Lapata. Discourse Representation Parsing for Sentences and Documents. In *Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics (ACL)*. Jul 2019.

Jiangming Liu, Shay B. Cohen and Mirella Lapata. Discourse Representation Structure Parsing with Recurrent Neural Networks and the Transformer Model In *Proceedings of the Shared Task on Semantic Parsing of the 13th International Conference on Computational Semantics (IWCS)*. May 2019.

Jiangming Liu, Shay B. Cohen and Mirella Lapata. Discourse Representation Structure Parsing. In *Proceedings of the 56th Annual Meeting of the Association for Computational Linguistics (ACL)*. Jul 2018.

Qi Liu, Yue Zhang and **Jiangming Liu**. Learning Domain Representation for Multi-Domain Sentiment Classification. In *Proceedings of the North American Chapter of the Association for Computational Linguistics (NAACL)*. Jun 2018.

Jiangming Liu and Yue Zhang. In-Order Transition-based Constituent Parsing System. In *Transactions of the Association of Computational Linguistics (TACL)*. Jan 2017.

Jiangming Liu and Yue Zhang. Encoder-Decoder Shift-Reduce Syntactic Parsing. In *Proceedings of International Conference of Parsing Technology (IWPT)*. Pisa, Italy, Aug 2017.

Jiangming Liu and Yue Zhang. Attention Modeling for Targeted Sentiment. In *Proceedings of the European Chapter of the Association for Computational Linguistics (EACL)*. Valencia, Spain, Apr 2017.

Jiangming Liu and Yue Zhang. Shift-Reduce Constituent Parsing with Neural Lookahead Features. In *Transactions of the Association of Computational Linguistics (TACL)*. Jan 2017.

Jiangming Liu and Yue Zhang. An Empirical Comparison Between N-gram and Syntactic Language Model for Word Ordering. In *Proceedings of the 2015 Conference on Empirical Methods in Natural Language Processing (EMNLP)*. Lisboa, Portugal, Sep 2015.

JinAn Xu, **Jiangming Liu**, Yufeng Chen, Yujie Zhang, Fang Ming and Shaotong Li. Integrating Case Frame into Japanese to Chinese Hierarchical Phrase-based Translation Model. In *workshop of Semantics-Driven Statistical Machine Translation (S2MT) in ACL*. Beijing, China, Jul 2015.

ACADEMIC HONORS & AWARDS	Beijing JiaoTong University scholarship For outstanding students.	2008 – 2015
	Graduate National scholarship For outstanding scientific contributions.	Oct 2013

PROFESSIONAL SERVICE **Reviewer for conference**: ACL (2017, 18, 19, 20, 21), NAACL (2021), EMNLP (2017, 18, 19, 20), COLING (2018), IJCAI (2018, 19, 20), AAAI (2019, 20), CLP (2016), PACLIC (2018), IALP (2018), NLPCC (2016, 17, 18, 19). **Reviewer for journal**: Computational Linguistics (CL), Transactions on Asian and Low-Resource Language Information Processing (TALLIP), Transactions on Big Data (TBD), Information Sciences. **Co-Chair**: Student research workshop in ACL (2020).

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