

Yang Liu

Personal Details

Affiliation Institute of Computational Linguistics,
School of Electronics Engineering and Computer Science,
Peking University

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Education

2013-2016 **M.Sc Computer Science**, *Institute of Computational Linguistics, School of Electronics Engineering and Computer Science, Peking University.*

Supervisor: Prof. Sujian Li

Research Topics:

- o Relation classification with dependency-based neural networks
- o Discourse parsing with multi-task neural networks
- o User adaptive social recommendation algorithms

2009-2013 **B.E. Computer Science**, *Department of Computer Science, Tianjin University.*

Supervisor: Prof. Ruifang He

GPA: 3.71/4.0 Ranking: 2/100

Thesis: *Microblog Summarization with Temporal Information* (Outstanding Undergraduate Dissertation Award)

Internship Experience

2014-2015 **Research Internship**, *Natural Language Computing Group, Microsoft Research Asia, Beijing.*

Mentor: Dr. Furu Wei

Research on relation classification algorithms with neural networks:

- o Strengthening the dependency path between two entities with the attached subtrees
- o Representing the augmented path as a continuous vector by a combination of CNNs and RNNs

Development of a chat system:

- o Enabling two robots to talk about a microblog topic with each other
- o Using various features to predict the query-response relevance while ensuring the coherence of the contents said by each robot
- o Using a sentiment analysis system to assign different positions to robots

2014 **Internship**, *Natural Language Processing Group, Baidu Inc*, Beijing.

Mentor: Dr. Yajuan Lv

Development of the One-sentence News Summarization System:

- o Developing a sentence compression module by deleting clauses based on lexical, syntactic, and semantic features
- o Responsible for the sentence rerank module

Publications

Yang Liu and Sujian Li. Implicit discourse relation classification via multi-task neural networks. In *Proceedings of AAAI 2016 Conference*, 2016.

Yang Liu, Furu Wei, Sujian Li, Heng Ji, and Ming Zhou. A dependency-based neural network for relation classification. In *Proceedings of the ACL-IJCNLP 2015 Conference Short Papers*, 2015.

Ziqiang Cao, Sujian Li, Yang Liu, Wenjie Li, and Heng Ji. A novel neural topic model and its supervised extension. In *Proceedings of AAAI 2015 Conference*, 2015.

Chen Miaohong, Chang Baobao, and Yang Liu. A neural network based translation constrained reranking model for chinese dependency parsing. In *Proceedings of the Fourteenth China National Conference on Computational Linguistics*, 2015.

Yang Liu, Sujian Li, Ziqiang Cao, and Heng Ji. A user adaptive model for followee recommendation on twitter. (submitted).

Honors and Awards

2015 National Scholarship for Graduate Students

2013 China Computer Federation (CCF) Elite Collegiate Award

100 college students selected nationwide every year

2013 Outstanding Graduates Award

2012 Anxin Group Scholarship

2011 Weichai Power Scholarship

2011,2012 Awarded Three A's Student by Tianjin University