

Yijia Liu

Ph.D. candidate, *Language analysis* group in HIT-SCIR
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RESEARCH INTEREST	Natural language processing, Chinese word segmentation, parsing and machine learning. My supervisor is Wanxiang Che.	
EDUCATION	<i>Ph.D. candidate</i> , Harbin Institute of Technology Major: Computer Science	2014.9 - present
	<i>M.S.</i> , Harbin Institute of Technology Major: Computer Science, Score: 79.14 (rank top 10%)	2012.9 - 2014.7
	<i>B.E.</i> , Harbin Institute of Technology Major: Computer Science, Score: 88.7 (rank top 8%)	2008.9 - 2012.7
PUBLICATION	Yijia Liu , Wanxiang Che, Jiang Guo, Bing Qin, and Ting Liu. 2016. Exploring Segment Representations for Neural Segmentation Models. In <i>Proceedings of the 25th International Joint Conference on Artificial Intelligence (IJCAI2016)</i> .	
	Yijia Liu , Wanxiang Che, Bing Qin, and Ting Liu. 2016. HC-search for Incremental Parsing. In <i>Proceedings of the 25th International Joint Conference on Artificial Intelligence (IJCAI2016)</i> .	
	Yijia Liu , Yue Zhang, Wanxiang Che, and Ting Liu. 2015. Transition-Based Syntactic Linearization. In <i>Proceedings of the 2015 Conference of the North American Chapter of the Association for Computational Linguistics (NAACL2015)</i> .	
	Yijia Liu , Yue Zhang, Wanxiang Che, and Ting Liu. 2014. Domain Adaptation for CRF-based Chinese Word Segmentation using Free Annotations, In <i>Proceedings of the 2014 Conference on Empirical Methods in Natural Language Processing (EMNLP2014)</i> .	
	Yijia Liu , Wanxiang Che, and Ting Liu. 2013. Enhancing chinese word segmentation with character clustering. In <i>Chinese Computational Linguistics and Natural Language Processing Based on Naturally Annotated Big Data (CCL2013)</i> .	
	Yijia Liu , Meishan Zhang, Wanxiang Che, Ting Liu, and Yihe Deng. 2012. Micro blogs Oriented Word Segmentation System. In <i>Proceedings of the Second CIPS-SIGHAN Joint Conference on Chinese Language Processing</i> .	
PROJECTS	Meishan Zhang, Wanxiang Che, Yijia Liu , Zhenghua Li, Ting Liu. 2012. HIT dependency parsing: Bootstrap aggregating heterogeneous parsers. In <i>Notes of the First Workshop on Syntactic Analysis of Non-Canonical Language (SANCL)</i> .	
	Language Technology Platform (LTP) Project Homepage: https://github.com/HIT-SCIR/ltp . LTP is a software package that provides Chinese natural language processing pipeline along with web service API.	2013.6 - present
<ul style="list-style-type: none">• one of the developers and the major maintainer of LTP.• developed 4 modules including Chinese word segmentation, part-of-speech tagging, NER and dependency parsing in a perceptron algorithm framework.		

- developed the RESTful API and contributed to the development of website (<http://ltp-cloud.com>).

ZPar Project

2013.10 - present

Project Homepage: <http://sourceforge.net/projects/zpar/>. ZPar is statistical multi-language parser. ZPar provides integrated systems that perform word segmentation, part-of-speech tagging, dependency parsing or phrase structure parsing.

- developed transition based non-projective dependency parser.
- developed bug fixes.

SERVICES

Conference Reviewer/Secondary Reviewer: ACL 2014, CCL 2015, NLPCC 2015, NAACL 2016, IJCAI 2016, SemEval 2016.

EMPLOYMENT

Research Assistance, SUTD.

2013.10 - 2014.10

worked with Professor Yue Zhang, on statistical machine translation, Chinese tagging and transition based dependency parsing.

Intern Researcher and Developer, Baidu Inc., NLP Department.

2011.7 - 2011.11

implemented query template extraction toolkit and built a python extension for baidu wordseg library.

TEACHING EXPERIENCE

TA, High level Programming Language,
TA, The Practice of Programming,

2009 Fall, 2010 Fall
2011 Spring, 2012 Spring

TECHNIQUE SUMMARY

Programming Languages: C/C++, Java, Python, R, Shell
Operating Systems: Linux (two-years experience as part-time IT administrator)
Experience: Git, SVN, Valgrind, Apache, Nginx, django (Python)

AWARDS

The National Scholarship for graduate students	2013.9
2010 ACM/ICPC Asia Regional Contest Hangzhou Onsite, Silver Medal	2010.10
Hua Wei Scholarship	2010.9