

# Yijia Liu

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Ph.D. student, *Language analysis* group in HIT-SCIR  
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**RESEARCH INTEREST** Natural language processing, Chinese Word Segmentation, Machine Learning. My supervisor is Wanxiang Che.

**EDUCATION** *M.S.*, Harbin Institute of Technology 2012.9 - 2014.7  
Major: Computer Science, Score 79.14(rank top 10%)  
*B.E.*, Harbin Institute of Technology 2008.7 - 2012.7  
Major: Computer Science, Score: 88.7 (rank top 8%)

**PUBLICATION** **Yijia Liu**, Yue Zhang, Wanxiang Che, and Ting Liu. 2015. Transition-Based Syntactic Linearization. (To appear) In *Proceedings of the 2015 Conference of the North American Chapter of the Association for Computational Linguistics*.

**Yijia Liu**, Yue Zhang, Wanxiang Che, and Ting Liu. 2014. Domain Adaptation for CRF-based Chinese Word Segmentation using Free Annotations, In *Proceedings of the 2014 Conference on Empirical Methods in Natural Language Processing*.

**Yijia Liu**, Wanxiang Che, and Ting Liu. 2013. Enhancing chinese word segmentation with character clustering. In *Chinese Computational Linguistics and Natural Language Processing Based on Naturally Annotated Big Data*.

**Yijia Liu**, Wanxiang Che, Ting Liu, and Meishan Zhang. 2013. A Comparison Study of Sequence Labeling Based Chinese Word Segmentation, POS tagging Models, In *Journal of Chinese Information Processing*. 2013 (3)

**Yijia Liu**, Meishan Zhang, Wanxiang Che, Ting Liu, and Yihe Deng. 2012. Micro blogs Oriented Word Segmentation System. In *Proceedings of the Second CIPS-SIGHAN Joint Conference on Chinese Language Processing*.

Meishan Zhang, Wanxiang Che, **Yijia Liu**, Zhenghua Li, Ting Liu. 2012. HIT dependency parsing: Bootstrap aggregating heterogeneous parsers. In *Notes of the First Workshop on Syntactic Analysis of Non-Canonical Language (SANCL)*.

**PROJECTS** **Language Technology Platform (LTP)** 2013.6 - present  
Project Homepage: <https://github.com/HIT-SCIR/ltp>. LTP is a software package that provides various Chinese natural language processing modules along with web service API.

- I am one of the developers and the major maintainer of LTP.
- I developed 4 modules including Chinese word segmentation, POSTagging, NER and Dependency parser in a perceptron algorithm framework.
- I also developed the API example for various languages and contributed to the development of website (<http://ltp-cloud.com>).

**Zpar Project** 2013.10 - present  
Project Homepage: <http://sourceforge.net/projects/zpar/>

- developed transition based parser
- developed bug fixes

<b>EMPLOYMENT</b>	<i>Research Assistance</i> , SUTD.	2013.10 - 2014.10
	working with Professor Yue Zhang, on statistical machine translation, Chinese tagging and transition based dependency parsing.	
	<i>Intern Researcher and Developer</i> , Baidu Inc., NLP Department.	2011.7 - 2011.11
	implemented query template extraction tool and built a python extension for baidu wordseg library.	
<b>TEACHING EXPERIENCE</b>	TA, High level Programming Language,	2009 Fall, 2010 Fall
	TA, The Practice of Programming,	2011 Spring, 2012 Spring
<b>TECHNIQUE SUMMARY</b>	<i>Programming Languages</i> : C, C++, Python, R, Shell, PHP, Java	
	<i>Operating Systems</i> : Linux(two year experience as system administrator)	
	<i>Experience</i> : SVN, Git, Valgrind, Apache, Nginx, codeigniter(PHP), django(Python)	
<b>AWARDS</b>	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
<b>MISCELLANEOUS</b>	TOELF ibt (2013.6) 93	
	Homepage: <a href="http://yjliu.net">http://yjliu.net</a> , Github <a href="https://github.com/Oneplus">https://github.com/Oneplus</a>	