

YUE ZHANG

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EMPLOYMENT

- Assistant professor** SUTD, Singapore Jul. 2012 – present
Research interests: natural language processing, machine learning and text mining, working on machine learning and inference algorithms for structural prediction, statistical parsing, Chinese syntactic processing, syntax-based text generation, statistical machine translation, information extraction, sentiment analysis and financial market predication.
- Postdoctoral research associate** University of Cambridge, UK Mar. 2010 – Jun. 2012
Research project (EU FP7): Feedback Analysis for User adaptive Statistical Translation (FAUST).
Objectives: automatic analysis and grammaticality improvement of machine translation output.
- Systems programmer** Abing Group Ltd., UK Jul. 2003 – Sep. 2005
Design and development of Abing Messaging: web server, XML HTTP protocol, and desktop client.
Extreme programming; developing over 70,000 lines of code in mainly Python and C++.

EDUCATION

- DPhil computer science** University of Oxford, UK Oct. 2006 – Dec. 2009
Overseas research student (ORS) Scholarship and Clarendon Fund (full scholarship) for DPhil research.
Nominated by Oxford to enter the 2010 best British PhD dissertation in computer science competition.
Thesis title: Discriminative learning approaches for the statistical processing of Chinese.
- MSc computer science (distinction)** University of Oxford, UK Oct. 2005 – Sep. 2006
Won both *the best overall performance award* and the *Richard Bird prize for the best thesis*.
The only one in class scoring A⁺ for all 7 subjects: a very rare performance for the Oxford MSc course.
Thesis title: Chinese-English statistical machine translation by parsing.
- BEng computer science (distinction)** Tsinghua University, China Sep. 1999 – Jul. 2003
Won annual scholarships from Lenovo (2000), Nortel Networks (2001) and Tsinghua University (2002).
GPA 3.77/4.0, 2nd in class; total credits 1st in class.
Thesis title: An implementation of MPICH upon VIA user level communication.

RESEARCH

- PI. Temasek Laboratory seed grant. Deep learning for Singlish parsing. (S\$49K) Aug 2016 – Aug 2017**
Aug. 2016 – Aug. 2017. Research assistant Hongmin Wang (BSc from National University of Singapore).
- PI for WP2. MINDEF grant. Cross-functional information systems for decision making. (S\$4.6M; with 660K for WP2) Dec 2014 – Dec 2017**
Feb. 2016 – Jan. 2017. Post-doctoral research fellow Zhongqing Wang (PhD from Soochow University, China).
Feb. 2016 – Jan. 2017. Post-doctoral research fellow Thien Hai Nguyen (PhD from Japan Advanced Institute of Science and Technology).
Aug. 2015 – Jan. 2016. Research assistant Lin Li (MSc from Chinese Academy of Sciences).
Mar. 2015 – Aug. 2016. Post-doctoral research fellow Chingyun Chang (PhD from University of Cambridge).

Jan. 2015 – Sep. 2015. Visiting student Xiao Ding from Harbin Institute of Technology, China.

PI. Singapore MOE Tier2 grant. Statistical machine translation by syntactic transfer. (S\$506K) Jun 2013 – Jun 2016

Sep. 2015 – Sep. 2016. Post-doctoral research fellow Yafeng Ren (PhD from Wuhan University, China).

May. 2015 – May. 2016. Research assistant Jiangming Liu (MSc from Beijing Jiao-Tong University, China).

Nov. 2014 – Nov. 2015. Post-doctoral research fellow Meishan Zhang (PhD from Harbin Institute of Technology, China).

May. 2014 – Feb. 2015. Research assistant Zhongye Jia (BEng from Shanghai Jiao-Tong University, China).

Jan. 2014 – Jan. 2015. Post-doctoral research fellow Likun Qiu (PhD from Peking University, China).

Nov. 2013 – Nov. 2014. Research assistant Yijia Liu (BEng from Harbin Institute of Technology, China).

PI. SUTD startup research grant. Statistical parsing and machine translation. (S\$100K) Jul 2012 – Jul 2015

Jul. 2016 – Sep. 2016. Research intern Xuanyi Li from Zhejiang University, China.

Oct. 2015 – Feb. 2016. Research intern Peng Shi from Zhejiang University, China.

Oct. 2014 – Feb. 2015. Research intern Hao Zhou from Nanjing University, China.

Sep. 2014 – Dec. 2014. Research intern Yanan Lu from Wuhan University, China.

Sep. 2014 – Feb. 2015. Research intern Chen Lv from Wuhan University, China.

Nov. 2013 – Feb. 2014. Research intern Linfeng Song from Institute of Computing Technology, Chinese Academy of Sciences, China.

Nov. 2013 – Feb. 2014. Research intern Xiao Ding from Harbin Institute of Technology, China.

Oct. 2013 – May. 2014. Research intern Kai Song from Northeastern University, China.

Sep. 2013 – Jun. 2014. Research intern Ji Ma from Northeastern University, China.

May. 2013 – Jun. 2013. Research visitor Miguel Ballesteros from Universitat Pompeu Fabra, Spain.

Feb. 2013 – Jun. 2013. Research intern Yanxia Qin from Harbin Institute of Technology, China.

Jan. 2013 – Mar. 2013. Research intern Muhua Zhu from Northeastern University, China.

Dec. 2012 – Feb. 2013. Research intern Meishan Zhang from Harbin Institute of Technology, China.

Students

Sep. 2015 – . PhD advisor of Fei Dong (SUTD).

Sep. 2015 – . PhD advisor of Shuailong Liang (SUTD).

Jan. 2015 – . PhD advisor of Zhiyang Teng (SUTD).

Sep. 2014 – . PhD advisor of Jie Yang (SUTD).

Sep. 2013 – . PhD advisor of Vo Duy Tin (SUTD).

Jun. 2013 – May 2015. External PhD advisor of Cher Pei Hua (University of Queensland, Australia).

Sep. 2013 – Sep. 2014. MSc co-supervisor of Hussan Dugum (SUTD/MIT).

Sep. 2010 – Jul. 2011. MPhil thesis (distinction) supervisor of Yang Liu (University of Cambridge).

Talks, Tutorials and Consultancy

2016. Invited talk to Deep learning Summit Singapore.

2016. Invited talk to SmartConnected.World and ICEC 2016, Suwon, Korea on keep learning.

2016. Invited talk to Heilongjiang University (China) on stock market prediction.

2016. Invited talk to National University of Singapore on deep learning for parsing.

2016. Invited talk to Singapore Actuary Society on text mining.

2016. Invited talk to Zhengzhou University (China) on Chinese syntactic parsing.

2015. Invited talk to National University of Singapore, School of Computing, on deep learning for stock market prediction.

2015. **Yue Zhang.** Deep learning for stock market prediction. An invited talk to ADSM Deep learning workshop, Singapore.

2015. Invited talk to Harbin Institute of Technology on deep learning for parsing.

2015. Invited talk to Chinese Academy of Sciences, Leshan Normal University (China) and Wuhan University (China) on stock market prediction.

2015. Invited talk to Global Innovators Forum on Technology and Society, Harbin, China, on text mining.

2015. Invited talks to Soochow University (China) on stock market prediction and deep learning methods for POS tagging.

2014. **Yue Zhang**. Statistical Machine Translation Using Text Generation. An invited talk to Singapore NLP research workshop 2014.

2014. Invited talk to Tsinghua University (China) on CCG parsing.

2014. **Yue Zhang**. Syntactic machine translation based on discriminative text synthesis. An invited talk to ADSM NLP workshop, Singapore.

2014. Invited talk to Nanjing University (China) on stock market prediction.

2014. Invited talk to Harbin Institute of Technology (China) on deep learning.

2014. Invited talk to Ludong University (China) on statistical machine translation.

2014. **Yue Zhang**, Meishan Zhang, and Ting Liu. Syntactic Processing Using Global Discriminative Learning and Beam-Search Decoding. A conference tutorial at the 52nd Annual Meeting of the Association for Computational Linguistics (ACL). Baltimore, USA, June.

2014. Invited talks to Universitat Pompeu Fabra (Spain) on statistical text generation.

2014. Invited talks to University of A Coruna (Spain), Chinese Academy of Sciences (Institute of Computing Technology), Peking University (China) and Tsinghua University (China) on Chinese syntactic analysis.

2013. **Yue Zhang**. Semantics Based Statistical Machine Translation and Partial Tree Linearization. An invited talk to CWMT.

2013. Invited talks to Tsinghua University and Northeast University (China) on dependency parsing.

2013. Invited talks to the Chinese Academy of Science, Baidu Inc (China) and Harbin Institute of Technology (China) on word ordering.

2012. Invited talk to the Institute of Infocomm Research (Singapore) on CCG parsing.

2011. Stephen Clark and **Yue Zhang**. Surprisingly Efficient Parsing for a Wide-Coverage Lexicalised-Grammar Parser. Cambridge NLIP seminar.

2010. Invited talk at Uppsala University (Sweden) on dependency parsing.

2010. Qin Iris Wang and **Yue Zhang**. Recent Advances in Dependency Parsing. A conference tutorial at Human Language Technologies: The 11th Annual Conference of the North American Chapter of the Association for Computational Linguistics (HLT:NAACL).

2009. Invited talk to the NLIP group seminar, University of Cambridge on dependency parsing.

2008. Invited talk to the School of Informatics (ICCS), University of Edinburgh on dependency parsing.

2008. Consultancy for Sharp Research Europe Ltd. on word segmentation.

Other research activities

Apr. 2016 – Mar. 2017. Research visitor Associate Prof. Yupeng Liu from Harbin Institute of Technology, China.

Sep. 2013 – Oct. 2013. Host research visit of Associate Prof. Carlos Gómez Rodríguez from University of A Coruna, Spain.

Dec. 2012 – Nov. 2013. Host visit from Prof. Haoliang Qi (Longjiang Scholar 2013; provincial distinguished professor) from Helongjiang Institute of Technology, China.

Sep. – Oct. 2010. Research visit to Uppsala University, Sweden (Prof. Joakim Nivre).

Jul. – Aug. 2009. Participant of the six-week Johns Hopkins University NLP Workshop (competitive entry), on the project *Parsing the Web*, Baltimore, MD, USA.

TEACHING

2015, 14, 13. Spring term. Teaching the sophomore course the Digital World (SUTD).

2016, 15. Spring and summer terms. Teaching the Capstone Projects course for final year undergraduate students (SUTD).

2015, 14, 13. Fall term. Teaching (lead) the pillar course Computation Structures (ISTD/SUTD).

2016. Jul. Invited summer lecture series: Statistical Natural Language Processing (Zhengzhou University, China).

2016, 15, 14. Jul. Invited summer lecture series: Statistical Natural Language Processing (Harbin Institute of Technology, China).

2013. Aug. Invited summer lecture series: Python and Computer Programming (Heilongjiang Institute of Technology, China).

2013, 12. Teaching the undergraduate summer lecture series on advanced Java programming (SUTD).

2011. Undergraduate supervisor for C/C++ (University of Cambridge).

2011. Practical demonstrator for Statistical Machine Translation (University of Cambridge).

2010–11. Undergraduate thesis supervisor (University of Cambridge).

2010. Undergraduate supervisor for Natural Language Processing (University of Cambridge).

2008. Class tutor for Advanced Topics in Natural Language Processing (University of Oxford).

2007, 06. Teaching assistant for Introduction to Specification (University of Oxford).

PROFESSIONAL SERVICE

ACL community:

IT officer, ACL SIGHAN, Dec 2013–.

Singapore University of Technology and Design:

Member of the Admissions Committee of the MIT-SUTD Dual Masters Programme, 2015.

Mentor for Junior College attachment, SUTD, Sep 2014 – Feb 2015.

Chair of the departmental undergraduate committee, ISTD/SUTD, Sep. 2012 – Aug. 2014.

Member of the university curriculum committee, SUTD, Jan. 2013 – .

Mentor for the Immersion Program, SUTD, 2014.

Mentor (merit award) for the Science Mentorship Program, Singapore, 2013.

Reviewer for books and theses:

External PhD examiner of Dominick Ng (University of Sydney, Australia), 2015.

External PhD examiner of Richard Billingsley (University of Sydney, Australia), 2014.

Book proposal reviewer for Cambridge University Press, 2013.

Reviewer for research grants:

Reviewer for Netherland Physical Science TOP-Grant Module 2, 2015.

Reviewer for Isreal Science Foundation Individual Research Grants. 2016 (Mar).

Reviewer for journals:

Computational Linguistics (2010, 11, 12, 13, 14, 15, 16), *Transaction of the Association of Computational Linguistics (TACL)* (2015–[standing review committee]), *Natural Language Engineering* (2012), *Computer, Speech and Language* (2010, 13, 14, 15), *Journal of Artificial Intelligence Research* (2015), *IEEE/ACM Transactions on Audio, Speech and Language Processing* (2013, 14, 15), *ACM Transactions on Asian and Low-resource Language Information Processing* (2011, 13, 14, 16 [associate editor]), *Language Resources and Evaluation (LREV)* (2014, 16), *Journal of Logic and Computation* (2012), *Knowledge and Information Systems* (2010, 11), *Computational Intelligence* (2010, 13, 16), *the International Journal of Artificial Intelligence* (2009), *Journal of Computer Science and Technology* (2013), *Computing and Informatics* (2013), *Big Data Research* (2015) and *Lingua Sinica* (2015).

PC for conferences:

ACL (2008, 09, 12, 13, 14, 15 [best paper committee, session chair], 16), ACL student research workshop (2012, 15 [student mentor], 16), ACL demos (2014), EMNLP (2009, 10, 12 [best reviewer award], 13, 14, 15 [area chair], 16), COLING (2012, 14 [area chair], 16), NAACL (2010, 12, 15 [area chair]), EACL (2012, 14), AACL (2012, 16, 17), IJCAI (2013), IJCNLP (2011, 13 [session chair]), IWPT (2011, 13, 15), ROCLING (2014), CCL (2015, 16 [area chair]), CCL student research workshop (2016), NLPCC (2014 [area chair], 15, 16 [area chair]), Depling (2015), CLP (2016 [PC chair]);

Workshops:

CWMT (2013), SIGHAN (2015 [co-organizer]), S2MT (2015 [session chair]), CLUK (2008 [session chair]), ADIM (2011), ICYCSEE (2015, 16).

PUBLICATIONS

Books

Yue Zhang. 2015. An Introduction to Python and Computer Programming. *Lecture Notes in Electrical Engineering*. Springer.

Journal articles

Wenliang Chen, Muhua Zhu, Min Zhang, **Yue Zhang** and Jingbo Zhu. 2016. Improving Shift-Reduce Phrase-Structure Parsing with Constituent Boundary Information. In *Computational Intelligence Journal*.

Hao Zhou, Shujian Huang, Junsheng Zhou, **Yue Zhang**, Huadong Chen, Xin-Yu Dai, Chuan Chen, and Jiajun Chen. Enhancing Shift-Reduce Constituent Parsing with Action N-Gram Model. 2016. In *ACM Transactions on Asian and Low-Resource Language Information Processing (TALLIP)*, Volume 15 Issue 3, March, Article No.13.

Wenliang Chen, Min Zhang, **Yue Zhang**, Xiangyu Duan. 2015. Exploiting meta features for dependency parsing and part-of-speech tagging. In *Artificial Intelligence*.

Yue Zhang and Stephen Clark. 2015. Syntax-based word ordering using learning-guided search. In *Computational Linguistics* 41(3). September. Pages 503 – 538.

Wenliang Chen, Min Zhang, **Yue Zhang**. 2015. Distributed Feature Representations for Dependency Parsing. In *IEEE/ACM Transactions on Audio, Speech and Language Processing* 23(3). March. Pages 451–460.

Yue Zhang and Stephen Clark. 2011. Syntactic Processing Using the Generalized Perceptron and Beam Search. In *Computational Linguistics* 37(1). March. Pages 105 – 151.

Conference proceedings

Hongshen Chen, **Yue Zhang** and Qun Liu. 2016. Neural Network for Heterogeneous Annotations. In *Proceedings of the 2016 Conference on Empirical Methods in Natural Language Processing (EMNLP)*. Austin, Texas, USA, November.

Zhiyang Teng, Duy Tin Vo and **Yue Zhang**. 2016. Context-Sensitive Lexicon Features for Neural Sentiment Analysis. In *Proceedings of the 2016 Conference on Empirical Methods in Natural Language Processing (EMNLP)*. Austin, Texas, USA, November.

Fei Dong and **Yue Zhang**. 2016. Automatic Features for Essay Scoring An Empirical Study. In *Proceedings of the 2016 Conference on Empirical Methods in Natural Language Processing (EMNLP)*. Austin, Texas, USA, November.

Lin Feng Song, **Yue Zhang**, Xiaochang Peng, Zhiguo Wang and Daniel Gildea. 2016. AMR-to-text generation as a Traveling Salesman Problem. In *Proceedings of the 2016 Conference on Empirical Methods in Natural Language Processing (EMNLP)*. Austin, Texas, USA, November.

Peng Shi, Zhiyang Teng and **Yue Zhang**. 2016. Exploiting Mutual Benefits between Syntax and Semantic Roles using Neural Network. In *Proceedings of the 2016 Conference on Empirical Methods in Natural Language Processing (EMNLP)*. Austin, Texas, USA, November.

Hao Zhou, **Yue Zhang**, Shujian Huang, Junsheng Zhou, Xinyu Dai and Jiajun Chen. 2016. A Search-Based Dynamic Reranking Model for Dependency Parsing. In *Proceedings of the 54th Annual Meeting of the Association for Computational Linguistics (ACL)*. Berlin, Germany, August.

Zhenghua Li, Min Zhang, **Yue Zhang**, Zhanyi Liu, Wenliang Chen, Hua Wu and Haifeng Wang. 2016. Active Learning for Dependency Parsing with Partial Annotation. In *Proceedings of the 54th Annual Meeting of the Association for Computational Linguistics (ACL)*. Berlin, Germany, August.

Meishan Zhang and **Yue Zhang**. 2016. Word-Based Neural Models for Chinese Segmentation. In *Proceedings of the 54th Annual Meeting of the Association for Computational Linguistics (ACL)*. Berlin, Germany, August.

Duy Tin Vo and **Yue Zhang**. 2016. Don't Count, Predict! An Automatic Approach to Learning Sentiment Lexicons for Short Text. In *Proceedings of the 54th Annual Meeting of the Association for Computational Linguistics (ACL)*. Berlin, Germany, August.

Peng Jin, **Yue Zhang**, Xingyuan Chen and Yunqing Xia. 2016. Bag-of-Embeddings for Text Classification. In *Proceedings of 25th International Joint Conference on Artificial Intelligence (IJCAI)*. New York City, USA, July.

Fei Li, Donghong Ji, **Yue Zhang** and Meishan Zhang. 2016. Joint Models for Extracting Adverse

- Drug Events from Biomedical Text. In *Proceedings of 25th International Joint Conference on Artificial Intelligence (IJCAL)*. New York City, USA, July.
- Ching-Yun Chang, Zhiyang Teng and **Yue Zhang**. 2016. Expectation-Regulated Neural Model for Event Mention Extraction. In *Proceedings of the 2016 Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)*. San Diego, USA, June, Pages 400–410.
- Ratish Puduppully, **Yue Zhang** and Manish Shrivastava. 2016. Transition-Based Syntactic Linearization with Lookahead Features. In *Proceedings of the 2016 Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)*. San Diego, USA, June, Pages 113–122.
- Hao Zhou, **Yue Zhang**, Shujian Huang, Xinyu Dai and Jiajun Chen. 2016. Evaluating a Deterministic Shift-Reduce Neural Parser for Constituent Parsing. In *Proceedings of 10th edition of the Language Resources and Evaluation Conference (LREC)*. Slovenia, May, Pages 659–663.
- Yanan Lu, **Yue Zhang** and Donghong Ji. 2016. Multi-prototype Chinese Character Embedding. In *Proceedings of 10th edition of the Language Resources and Evaluation Conference (LREC)*. Slovenia, May, Pages 855–859.
- Meishan Zhang, Jie Yang, Zhiyang Teng and **Yue Zhang**. 2016. LibN3L: A Lightweight Package for Neural NLP. In *Proceedings of 10th edition of the Language Resources and Evaluation Conference (LREC)*. Slovenia, May, Pages 225–229.
- Meishan Zhang, **Yue Zhang** and Duy Tin Vo. 2016. Gated Neural Networks for Targeted Sentiment Analysis. In *Proceedings of the 2016 AAAI Conference on Artificial Intelligence*. Phoenix, Arizona, USA, February, Pages 3087–3093.
- Yafeng Ren, **Yue Zhang**, Meishan Zhang and Donghong Ji. 2016. Improving Twitter Sentiment Classification Using Topic-Enriched Multi-Prototype Word Embeddings. In *Proceedings of the 2016 AAAI Conference on Artificial Intelligence*. Phoenix, Arizona, USA, February, Pages 3038–3044.
- Yafeng Ren, **Yue Zhang**, Meishan Zhang and Donghong Ji. 2016. Context-Sensitive Twitter Sentiment Classification Using Neural Network. In *Proceedings of the 2016 AAAI Conference on Artificial Intelligence*. Phoenix, Arizona, USA, February, Pages 215–221.
- Likun Qiu, **Yue Zhang** and Meishan Zhang. 2016. Dependency Tree Representations of Predicate-Argument Structures. In *Proceedings of the 2016 AAAI Conference on Artificial Intelligence*. Phoenix, Arizona, USA, February, Pages 2645–2651.
- Chen Lyu, **Yue Zhang** and Donghong Ji. 2016. Joint Word Segmentation, POS-Tagging and Syntactic Chunking. In *Proceedings of the 2016 AAAI Conference on Artificial Intelligence*. Phoenix, Arizona, USA, February, Pages 3007–3014.
- Le Wang, **Yue Zhang** and Lei Shi. 2016. Hyperbolic Dependency Tree Visualization for Parser Evaluation, In *IEEE VIS (InfoVis), Posters*
- Cheah Huei Yoong, Hyowon Lee, Ngai-Man Cheung, Geok See Ng, **Yue Zhang** and Subhajit Datta. 2015. Open Designettes, Flowcharts, and Pseudocodes in Python Programming with the Aid of Finch. In *Proceedings of the 23rd International Conference on Computers in Education (ICCE)*. Hangzhou, China, November, Pages 697–702.
- Meishan Zhang, **Yue Zhang** and Duy Tin Vo. 2015. Neural Networks for Open Domain Targeted Sentiment. In *Proceedings of the 2015 Conference on Empirical Methods in Natural Language Processing (EMNLP)*. Lisboa, Portugal, September, Pages 612–621.
- Tao Qian, **Yue Zhang**, Meishan Zhang and Donghong Ji. 2015. A Transition-based Model for Joint Segmentation, POS-tagging and Normalization. In *Proceedings of the 2015 Conference on Empirical Methods in Natural Language Processing (EMNLP)*. Lisboa, Portugal, September, Pages 1837–1846.
- Jiangming Liu and **Yue Zhang**. 2015. An Empirical Comparison Between N-gram and Syntactic Language Models for Word Ordering. In *Proceedings of the 2015 Conference on Empirical Methods in Natural Language Processing (EMNLP)*. Lisboa, Portugal, September, Pages 369–378.
- Likun Qiu, **Yue Zhang** and Yanan Lu. 2015. Syntactic Dependencies and Distributed Word Representations for Analogy Detection and Mining. In *Proceedings of the 2015 Conference on Empirical Methods in Natural Language Processing (EMNLP)*. Lisboa, Portugal, September, Pages 2441–2450.
- Meishan Zhang and **Yue Zhang**. 2015. Combining Discrete and Continuous Features for Deterministic Transition-based Dependency Parsing. In *Proceedings of the 2015 Conference on Empirical Methods in Natural Language Processing (EMNLP)*. Lisboa, Portugal, September, Pages 1316–1321.
- Rui Sun, **Yue Zhang**, Meishan Zhang and Donghong Ji. 2015. Event-Driven Headline Generation.

- In *Proceedings of the 53rd Annual Meeting of the Association for Computational Linguistics (ACL)*. Beijing, China, July, Pages 462–472.
- Hao Zhou, **Yue Zhang**, Shujian Huang and Jiajun Chen. 2015. A Neural Probabilistic Structured-Prediction Model for Transition-based Dependency Parsing. In *Proceedings of the 53rd Annual Meeting of the Association for Computational Linguistics (ACL)*. Beijing, China, July, Pages 1223–1233.
- Xiao Ding, **Yue Zhang**, Ting Liu and Junwen Duan. 2015. Deep Learning for Event-Driven Stock Prediction. In *Proceedings of the 24rd International Joint Conference on Artificial Intelligence (IJCAI)*. Buenos Aires, Argentina, July, Pages 2327–2333.
- Duy-Tin Vo and **Yue Zhang**. 2015. Target-dependent Twitter Sentiment Classification with Rich Automatic Features. In *Proceedings of the 24rd International Joint Conference on Artificial Intelligence (IJCAI)*. Buenos Aires, Argentina, July, Pages 1347–1353.
- Yijia Liu, **Yue Zhang**, Wanxiang Che and Bing Qin. 2015. Transition-Based Syntactic Linearization. In *Proceedings of the 2015 Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)*. Denver, Colorado, USA, May, Pages 113–122.
- Likun Qiu and **Yue Zhang**. 2015. Word Segmentation for Chinese Novels. In *Proceedings of the Twenty-Ninth AAAI Conference on Artificial Intelligence*. Austin, Texas, USA, January, Pages 2440–2446.
- Shuang Liu, Jun Sun, Yang Liu, **Yue Zhang**, Bimlesh Wadhwa, Jin Song Dong and Xinyu Wang. 2014. Automatic early defects detection in use case documents. In *Proceedings of the 29th ACM/IEEE international conference on Automated software engineering (ASE)*. Vasteras, Sweden, September, Pages 785–790.
- Likun Qiu and **Yue Zhang**. 2014. ZORE: A Syntax-based System for Chinese Open Relation Extraction. In *Proceedings of the 2014 Conference on Empirical Methods in Natural Language Processing (EMNLP)*. Doha, Qatar, October, Pages 1870–1880.
- Yijia Liu, **Yue Zhang**, Wanxiang Che, Ting Liu and Fan Wu. 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 (EMNLP)*. Doha, Qatar, October, Pages 864–874.
- Yue Zhang**, Kai Song, Linfeng Song, Jingbo Zhu and Qun Liu. 2014. Syntactic SMT Using a Discriminative Text Generation Model. In *Proceedings of the 2014 Conference on Empirical Methods in Natural Language Processing (EMNLP)*. Doha, Qatar, October, Pages 177–182.
- Xiao Ding, **Yue Zhang**, Ting Liu and Junwen Duan. 2014. Using Structured Events to Predict Stock Price Movement: An Empirical Investigation. In *Proceedings of the 2014 Conference on Empirical Methods in Natural Language Processing (EMNLP)*. Doha, Qatar, October, Pages 1415–1425.
- Wenliang Chen, **Yue Zhang** and Min Zhang. 2014. Feature embeddings for Dependency Parsing. In *Proceedings of the 25th International Conference on Computational Linguistics (Coling)*. Dublin, Ireland, August, Pages 816–826.
- Likun Qiu, **Yue Zhang**, Peng Jin and Houfeng Wang. 2014. Building a Multi-view Chinese Treebank. In *Proceedings of the 25th International Conference on Computational Linguistics (Coling)*. Dublin, Ireland, August, Pages 257–268.
- Linfeng Song, **Yue Zhang**, Kai Song and Qun Liu. 2014. Joint Morphological Generation and Syntactic Linearization. In *Proceedings of the Twenty-Eighth AAAI Conference on Artificial Intelligence (AAAI)*. Quebec City, Canada, July, Pages 1522–1528.
- Meishan Zhang, **Yue Zhang**, Wanxiang Che and Ting Liu. 2014. Character-Level Chinese Dependency Parsing. In *Proceedings of the 52nd Annual Meeting of the Association for Computational Linguistics (ACL)*. Baltimore, USA, June, Pages 1326–1336.
- Kepa Bengoetxea, Eneko Agirre, Joakim Nivre, **Yue Zhang** and Koldo Gojenola Gallettebeitia. 2014. On WordNet Semantic Classes and Dependency Parsing. In *Proceedings of the 52nd Annual Meeting of the Association for Computational Linguistics (ACL), Short Papers*. Baltimore, USA, June, Pages 649–655.
- Ji Ma, **Yue Zhang** and Jingbo Zhu. 2014. Tagging The Web: Building A Robust Web Tagger with Neural Network. In *Proceedings of the 52nd Annual Meeting of the Association for Computational Linguistics (ACL)*. Baltimore, USA, June, Pages 144–154.
- Wenduan Xu, Stephen Clark and **Yue Zhang**. 2014. Shift-Reduce CCG Parsing with a Dependency Model. In *Proceedings of the 52nd Annual Meeting of the Association for Computational Linguistics*

(ACL). Baltimore, USA, June, Pages 218–227.

Ji Ma, **Yue Zhang** and Jingbo Zhu. 2014. Punctuation Processing for Projective Dependency Parsing. In *Proceedings of the 52nd Annual Meeting of the Association for Computational Linguistics (ACL), Short Papers*. Baltimore, USA, June, Pages 791–796.

Meishan Zhang, **Yue Zhang**, Wanxiang Che, Ting Liu. 2014. Type-Supervised Domain Adaptation for Joint Segmentation and POS-Tagging. In *Proceedings of the 14th Conference of the European Chapter of the ACL (EACL 2014)*. Gothenburg, Sweden, Pages 588–597. April.

Meishan Zhang, **Yue Zhang**, Wanxiang Che, Ting Liu. 2014. A Semantics Oriented Grammar for Chinese Treebanking. In *Proceedings of 15th International Conference on Intelligent Text Processing and Computational Linguistics (CICLing)*. Kathmandu, Nepal. April. Pages. 366–378 (LNCS 8403).

Sabel Ortiz, Miguel Ballesteros and **Yue Zhang**. 2014. ViZPar: A GUI for ZPar with Manual Feature Selection. In *Demonstrations of the 30th Spanish Conference on Natural Language Processing (SEPLN 2014)*. Girona, Spain.

Wenliang Chen, Min Zhang and **Yue Zhang**. 2013. Semi-Supervised Feature Transformation for Dependency Parsing. In *Proceedings of the 2013 Conference on Empirical Methods in Natural Language Processing (EMNLP)*. Seattle, USA, October. Pages 1303 – 1313.

Yanxia Qin, **Yue Zhang**, Min Zhang and Dequan Zheng. 2013. Feature-Rich Segment-Based News Event Detection on Twitter. In *Proceedings of the 6th International Joint Conference on Natural Language Processing (IJCNLP)*. Nagoya, Japan, October. Pages 302 – 310.

Wenduan Xu, **Yue Zhang**, Philip Williams, and Philipp Koehn. 2013. Learning to Prune: Context-Sensitive Pruning for Syntactic MT. In *Proceedings of the 49th Annual Meeting of the Association for Computational Linguistics: Human Language Technologies (ACL), Short Papers*. Sophia, Bulgaria, August. Pages 352 – 357.

Meishan Zhang, **Yue Zhang**, Wanxiang Che and Ting Liu. 2013. Chinese Parsing Exploiting Characters. In *Proceedings of the 49th Annual Meeting of the Association for Computational Linguistics: Human Language Technologies (ACL)*. Sophia, Bulgaria. August. Pages 125 – 134.

Muhua Zhu, **Yue Zhang**, Wenliang Chen, Min Zhang and Jingbo Zhu. 2013. Fast and Accurate Shift-Reduce Constituent Parsing. In *Proceedings of the 49th Annual Meeting of the Association for Computational Linguistics: Human Language Technologies (ACL)*. Sophia, Bulgaria. August. Pages 434 – 443.

Yue Zhang. 2013. Partial-Tree Linearization: Generalized Word Ordering for Text Synthesis. In *Proceedings of the 23rd International Joint Conference on Artificial Intelligence (IJCAI)*. Beijing, China. August. Pages 2232 – 2238.

Junhua Liu, **Yue Zhang**, Justin Ruths, Diana Moreno, Daniel Jansen and Kristin L Wood. 2013. Innovations in Software Engineering Education: An Experimental Study and Integrating Active Learning and Design-Based Learning. In *Proceedings of the 121th ASEE Annual Conference and Exposition*. Atlanta, Georgia, USA. June.

Yang Liu and **Yue Zhang**. 2012. Unsupervised Domain Adaptation for Joint Segmentation and POS-Tagging. In *Proceedings of the 24th International Conference on Computational Linguistics (Coling), posters*. Mumbai, India. December. Pages 745 – 754.

Yue Zhang and Joakim Nivre. 2012. Analyzing the Effect of Global Learning and Beam-Search for Transition-Based Dependency Parsing. In *Proceedings of the 24th International Conference on Computational Linguistics (Coling), posters*. Mumbai, India. December. Pages 1391 – 1400.

Yue Zhang, Graeme Blackwood and Stephen Clark. 2012. Syntax-Based Word Ordering Incorporating a Large-Scale Language Model. In *Proceedings of the 13th Conference of the European Chapter of the Association for Computational Linguistics (EACL)*. Avignon, France. April. Pages 736–746.

Yue Zhang and Stephen Clark. 2011. Syntax-based Grammaticality Improvement using CCG and Guided Search. In *Proceedings of the 2011 Conference on Empirical Methods in Natural Language Processing (EMNLP)*. Edinburgh, UK. July. Pages 1147 – 1157.

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Notes: the field of computational linguistics is conference-driven, with many influential work in leading conferences such as ACL and EMNLP. The leading journal of the field is *Computational Linguistics*.