Lei Sha

Curriculum Vitae

Education

2013.09-present — **PhD student of Natural Language Processing**, *Peking University*.

2009.09-2013.06 — **Bachelor of Computer Science**, *Beijing University of Technology*.
GPA – 3.9

2006.09-2009.06 — **High School**, *The Experimental High School attached to Beijing Normal University*.

Work Experience

2017.07-present — **Intern of System**, *Microsoft Research Asia*.
Working on Dialogue system

2017.02-2017.05 — **Intern of AI Lab**, *Sinovation Ventures*.
Automatically Design Neural Network Architecture: We use reinforcement learning to decide the layer type and layer size to add in each decision step. The reward is set as the F_1 value on validation set. We use beam search to prune those architecture with low reward.
Kensho Demo: We use rule-based method to turn natural language query to SPARQL. We use SPARQL query to seek for answers from knowledge base.

2014.11-2015.6 — **Intern of Knowledge Mining**, *Microsoft Research Asia*.
Working on Event Extraction. Read papers about event extraction, implement the new ideas and complete a paper.

Publications

2018 [1] Order-Planning Neural Text Generation From Structured Data. **Lei Sha**, Lili Mou, Tianyu Liu, Pascal Poupart, Sujian Li, Baobao Chang and Zhifang Sui. In Proceedings of AAAI 2018 Conference, 2018. (AAAI 2018).

2018 [2] Joint Extracting Event Trigger and Arguments Using dependency bridge Recurrent Tensor Network. **Lei Sha**, Feng Qian, Sujian Li, Baobao Chang and Zhifang Sui. In Proceedings of AAAI 2018 Conference, 2018. (AAAI 2018).

2018 [3] Multi-View Fusion Neural Network for Answer Selection. **Lei Sha**, Jin-ge Yao, Sujian Li, Baobao Chang and Zhifang Sui. In Proceedings of AAAI 2018 Conference, 2018. (AAAI 2018).

2017 [4] Will Repeated Reading Benefit Natural Language Understanding? **Lei Sha** and Zhifang Sui. In Proceedings of NLPCC 2017 Conference, 2017. (NLPCC 2017).

2016 [5] Reading and Thinking: Re-read LSTM Unit for Textual Entailment Recognition. **Lei Sha**, Sujian Li, Baobao Chang and Zhifang Sui. In Proceedings of Coling 2016 Conference, 2016. (Coling 2016).

2016 [6] Capturing Argument Connection for Chinese Semantic Role Labeling. **Lei Sha**, Sujian Li, Baobao Chang and Zhifang Sui. In Proceedings of EMNLP 2016 Conference, 2016. (EMNLP 2016).

2016 [7] RBPB: Regularization-Based Pattern Balancing Method for Event Extraction. **Lei Sha**, Jing Liu, Chin-Yew Lin, Sujian Li, Baobao Chang and Zhifang Sui. In Proceedings of ACL 2016 Conference, 2016. (ACL 2016).

2016 [8] Joint Learning Templates and Slots for Event Schema Induction. **Lei Sha**, Sujian Li, Baobao Chang and Zhifang Sui. In Proceedings of NAACL 2016 Conference, 2016. (NAACL 2016).

2015 [9] Recognizing Textual Entailment Using Probabilistic Inference. **Lei Sha**, Sujian Li, Tingsong Jiang, Baobao Chang, and Zhifang Sui. In Proceedings of the EMNLP 2015 Conference, 2015. (EMNLP 2015).

2018 [10] Table-to-text Generation by Structure-aware Seq2seq learning. Tianyu Liu, Kexiang Wang, **Lei Sha**, Zhifang Sui, Baobao Chang. In Proceedings of AAAI 2018 Conference, 2018. (AAAI 2018).

2017 [11] Syntax Aware LSTM Model for Chinese Semantic Role Labeling. Feng Qian, **Lei Sha**, Baobao Chang, Lu-chen Liu, Ming Zhang. In Proceedings of EMNLP 2017 Conference, 2017. (EMNLP 2017).

2017 [12] A Progressive Learning Approach to Chinese SRL Using Heterogeneous Data. Qiaolin Xia, **Lei Sha**, Baobao Chang, Zhifang Sui. In Proceedings of ACL 2017 Conference, 2017. (ACL 2017).

2017 [13] Attentive Interactive Neural Networks for Answer Selection in Community Question Answering. Xiaodong Zhang, **Lei Sha**, Sujian Li, Houfeng Wang. In Proceedings of AAAI 2017 Conference, 2017. (AAAI 2017).

2016 [14] Encoding Temporal Information for Time-Aware Link Prediction. Tingsong Jiang, Tianyu Liu, Tao Ge, **Lei Sha**, Sujian Li, Baobao Chang and Zhifang Sui. In Proceedings of EMNLP 2016 Conference, 2016. (EMNLP 2016).

2016 [15] Towards Time-Aware Knowledge Graph Completion. Tingsong Jiang, Tianyu Liu, Tao Ge, **Lei Sha**, Sujian Li, Baobao Chang and Zhifang Sui. In Proceedings of Coling 2016 Conference, 2016. (Coling 2016).

2015 [16] Multi-label Text Categorization with Joint Learning Predictions-as-Features Method. Li Li, Houfeng Wang, **Lei Sha**, Xu Sun, Baobao Chang, Shi Zhao. In Proceedings of EMNLP 2015 Conference, 2015. (EMNLP 2015)

2014 [17] Event Schema Induction Based on Relational Co-occurrence over Multiple Documents. Tingsong Jiang, **Lei Sha** and Zhifang Sui. In Proceedings of Natural Language Processing and Chinese Computing, 2014. (NLPCC 2014).

Awards

2016 Merit Student, May 4th Scholarship

2015 "Stars of Tomorrow" in MSRA, Peking University PhD Fellowship

2013 Outstanding Graduate

2012 The 1st Prize in the 3rd "Lanqiao Cup" National Software Professional Design and Business Competition

2011 The National 2nd Prize in the China Undergraduate Mathematical Contest in Modeling, National Scholarship(**The only one** in my grade)

2010 The 2nd Prize in Chinese Mathematical Contest(Beijing division), Beichuan Scholarship(one of the two in my grade)

Computer skills

Intermediate HTML, LaTeX, Linux, Microsoft Windows

Advanced PYTHON, JAVA, C/C++, MATLAB

Advanced THEANO, TENSORFLOW

Interests

- Table Tennis
- Running
- Photographing
- Badminton
- Swimming
- Playing Piano