

SHUAILONG LIANG

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EDUCATION

- **Singapore University of Technology and Design** **2015.9 – 2020.6**
Ph.D. Student. NLP Applications in social sciences, commonsense QA. Advisor: Yue Zhang/Lim Kwan Hui
- **Amazon Germany** **2019.11 – 2020.2**
Applied Science Intern. Dialogue System in Customer Service domain. Mentor: Gyuri Szarvas
- **Westlake University** **2018.10 – 2019.2**
Visiting Student. Relation Classification/Graph RNN
- **Singapore University of Technology and Design** **2013.9 – 2013.12**
Exchange Student. Information System Technology and Design Pillar.
- **Zhejiang University** **2011.9 – 2015.6**
B.E. (Digital Media Technology)

PUBLICATIONS

Published Papers:

1. **Shuailong Liang**, Olivia Nicol, Yue Zhang. Who Blames Whom in a Financial Crisis? Detecting Blame Ties from News Articles Using Neural Networks. In Proceedings of the Thirty-Third AAAI Conference on Artificial Intelligence (AAAI 2019: Long paper), Hawaii, USA, 2019.
2. Cunxiang Wang, **Shuailong Liang**, Yue Zhang, Xiaonan Li and Tian Gao. Does It Make Sense And Why? A Pilot Study for Sense Making and Explanation. The 57th Annual Meeting of the Association for Computational Linguistics (ACL 2019: Long paper).
3. **Shuailong Liang***, Cunxiang Wang*, Yue Zhang, Xiaodan Zhu. SemEval 2020 Task 4: Commonsense Validation and Explanation. SemEval-2020: International Workshop on Semantic Evaluation. (*equal contribution)
4. Jie Yang, **Shuailong Liang** and Yue Zhang. Design Challenges and Misconceptions in Neural Sequence Labeling. In Proceedings of the 27th International Conference on Computational Linguistics (COLING 2018), Santa Fe, USA, 2018. **Best Paper Award: Most Reproducible Paper.**
5. Jie Yang, Yue Zhang, **Shuailong Liang**. Subword Encoding in Lattice LSTM for Chinese Word Segmentation. Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL 2019: Short paper).

PROJECTS

1. **BECON: BERT** with Evidence from **CON**ceptNet for Commonsense Question Answering
 - Leverage ConceptNet to enhance BERT-based model for commonsense question answering.

- Ensemble model improves by absolute **2.9%** on *test* set compared with BERT-large, ranked **No.2** as of 2019/07/2.

2. Open domain QA and Reading Comprehension

- Read Wikipedia to answer open domain question: use *Lucene* to help to reformulate/expand queries using Reinforcement Learning to improve search recall

3. Stock Market Prediction

- Use financial news from Bloomberg and Reuters to predict stock prices of S&P 500 companies
- Features are bag of words TFIDF features/Event features extracted with OpenIE
- Models: SVM/Feedforward NN.

4. CCG Supertagging

- Combinatory Categorical Grammar: convert parsing to sequence labelling task - Supertagging
- Models: CRF/NN/RNN/LSTM models
- Add language model between supertags

ACADEMIC SERVICE AND LEADERSHIP

- Student Volunteer at NAACL 2019
- Conference Reviewer 2019: **AAAI**, CCL, NLPCC
- Journal Reviewer: IEEE Transactions on Big Data. 2019.
- Conference Reviewer 2018: **EMNLP**, NLPCC
- Conference Reviewer 2017: NLPCC, IJCNLP
- Conference Reviewer 2016: NLPCC, CLP
- Student Volunteer at Deep Learning Summit Singapore. 2016
- Head of Tech Dept. Google Camp, Zhejiang University

TECHNICAL SUMMARY

- Programming Languages: Python, Shell, TeX.
- Developing Tools: Allennlp, PyTorch, Matplotlib, pandas, scikit-learn

TEACHING

- Teaching Assistant for 50.002: Computation Structures, 2016
- Teaching Assistant for 50.005: Computer System Engineering, 2017

HONORS AND AWARDS

- Best Paper Award of COLING: International Committee on Computational Linguistics. 2018
- President's Graduate Fellowship: Singapore University of Technology and Design. 2015-2020
- Scholarship of National Training Base of Digital Media Technology: Zhejiang University 2014
- Academic Excellence Award: Singapore University of Technology and Design. 2013

REFERENCES

- Yue Zhang (zhangyue@westlake.edu.cn), Westlake University
- Olivia Nicol (olivia_nicol@sutd.edu.sg), Singapore University of Technology and Design
- Wei Lu (wei_lu@sutd.edu.sg), Singapore University of Technology and Design