

Zhanming (Allan) Jie

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RESEARCH INTEREST

Structured Prediction in NLP, Multi-modal Question Answering, Neural Symbolic Reasoning

EDUCATION

Singapore University of Technology and Design <i>PhD of Computer Science</i> <ul style="list-style-type: none">Supervisor: Prof. Wei LuThesis: “<i>Leveraging Dependency Trees for Structured Prediction</i>” (Best Thesis Award)	2016 - 2020
The Hong Kong University of Science and Technology <i>Doctoral Program</i> <ul style="list-style-type: none">Supervisor: Prof. James She	2014 - 2015
University of Electronic Science and Technology of China <i>Bachelor of Engineering</i> <ul style="list-style-type: none">GPA - 3.91/4, Department Ranking: 6/193	2010 - 2014

PROFESSIONAL EXPERIENCE

Senior NLP Scientist, ByteDance AI Lab <ul style="list-style-type: none">Mentors: Hang LiResearch Area: multi-modal QA and symbolic reasoning	May 2022 – Present <i>Singapore</i>
NLP Scientist, ByteDance AI Lab <ul style="list-style-type: none">Mentors: Hang Li and Wei LuResearch Area: natural language understanding and multi-modal QA	May 2020 – May 2022 <i>Singapore</i>
NLP Research Intern, DAMO Academy, Alibaba <ul style="list-style-type: none">Mentor: Lidong BingResearch Area: Low-resource named entity recognition	November 2019 – May 2020 <i>Singapore</i>
NLP Research Intern, Allen Institute for Artificial Intelligence <ul style="list-style-type: none">Supervisor: Pradeep Daisg & Ana MarasovicResearch Area: Question Answering with Coreferential Knowledge	June 2019 – Sept 2019 <i>Washington</i>
Research Intern, Singapore University of Technology and Design <ul style="list-style-type: none">Mentor: Prof. Wei LuResearch Area: Multilingual Semantic Parsing	Feb 2014 – May 2014 <i>Singapore</i>
Research Assistant, Shanghai Jiao Tong University <ul style="list-style-type: none">Mentor: Prof. Yaohui JinResearch Area: Cyber Attack in Cloud Computing	Dec 2013 – Feb 2014 <i>China</i>

PROFESSIONAL SERVICE

Structured Prediction Framework <i>Active Maintainer</i>	https://github.com/allanj/pytorch_neural_crf
PC/Reviewer for Conference and Journal <ul style="list-style-type: none">ACL ARR Rolling Review, ACL 2022, ACL 2021, EMNLP 2021, ACL 2020, EMNLP 2020, NLPCC 2020, AAAI 2019, EMNLP 2019, NAACL 2019, EMNLP 2018, PACLIC 2018, IJCNLP 2017, NLPCC 2017IEEE Transactions on Emerging Topics in Computing, Transactions on Asian and Low-Resource Language Information Processing, Natural Language Engineering, Computational Linguistic	

AWARDS

Best PhD Thesis Award, SUTD	Apr 2020
Student Scholarship Award, AAAI-2017	Feb 2017
SUTD President's Graduate Fellowship, SUTD	2016 – 2020
Research Travel Grant, HKUST	Jul 2015
Postgraduate Studentship, HKUST	2014 – 2015
Outstanding Volunteer, Zhongshan, Guangdong, China	Aug 2014
Excellent Graduation Thesis and Excellent Graduate Student, UESTC	Jul 2014
The Innovation Fund's Project of Oscilloscope High-speed Data Acquisition Channel, UESTC.	Mar 2013
The Third Prize in "UESTC CUP" Mobile Application Design Contest	Mar 2013
First-Class People's Scholarship (Top 6%) UESTC	2012 – 2013
The Second Prize in "Ecovacs" Intelligent Robot Design Contest, UESTC	Oct 2012
Samsung Enterprise Scholarship (Top 3%) UESTC	2011 – 2012
National Inspirational Scholarship (Top 3%) UESTC	2010 – 2011

PUBLICATIONS

1. **Zhanming Jie**, Jierui Li, and Wei Lu. "Learning to Reason Deductively: Math Word Problem Solving as Complex Relation Extraction." *In Proceedings of ACL*. 2022.
2. Yuxiang Zhou, Lejian Liao, Yang Gao, **Zhanming Jie** and Wei Lu. "To be Closer: Learning to Link up Aspect with Opinions." *In Proceedings of EMNLP*. 2021.
3. Lu Xu, **Zhanming Jie**, Wei Lu and Lidong Bing. "Better Feature Integration for Named Entity Recognition." *In Proceedings of NAACL*. 2021.
4. Xuefeng Yang, Benhong Wu, **Zhanming Jie**, Yunfeng Liu. "Overview of the NLPCC 2020 Shared Task: AutoIE." *In Proceedings of NLPCC*. 2020.
5. Liying Cheng, Yan Zhang, Dekun Wu, **Zhanming Jie**, Lidong Bing, Wei Lu, Luo Si. "Knowledge Graph Empowered Entity Description Generation." *In Proceedings EMNLP*. 2020.
6. **Zhanming Jie**, and Wei Lu. "Dependency-Guided LSTM-CRF for Named Entity Recognition." *In Proceedings of EMNLP*. 2019.
7. **Zhanming Jie**, Pengjun Xie, Wei Lu, Ruixue Ding and Linlin Li. "Better Modeling of Incomplete Annotations for Named Entity Recognition." *In Proceedings of NAACL*. 2019.
8. **Zhanming Jie**, and Wei Lu. "Dependency-based Hybrid Tree for Semantic Parsing." *In Proceedings of EMNLP*. 2018.
9. Chu Guo, **Zhanming Jie**, Wei Lu and Dario Poletti. "Matrix Product Operators for Sequence to Sequence Learning." *In Physical Review E*. 2018.
10. **Zhanming Jie**, Aldrian Obaja Muis, and Wei Lu. "Efficient Dependency-Guided Named Entity Recognition." *In Proceedings of AAAI*. 2017.
11. Ming Cheung, James She and **Zhanming Jie**. "Connection Discovery using Big Data of User Shared Images in Social Media." *IEEE Transactions on Multimedia*, 17(9), 1417-1428. 2015.
12. **Zhanming Jie**, Ming Cheung and James She. "A Cloud-assisted Framework for Bag-of-Feature Tagging in Social Networks." *In Proceedings of IEEE NCCA*. 2015.
13. Alvin Junus, Ming Cheung, James She, **Zhanming Jie**. "Community-Aware Prediction of Virality Timing Using Big Data of Social Cascades" *In Proceedings of IEEE BigDataService*. 2015.
14. **Zhanming Jie**, and Wei Lu. "Multilingual Semantic Parsing: Parsing Multiple Languages into Semantic Representations." *In Proceedings of COLING*. 2014.

MENTORING (4 PAPERS ACCEPTED)

Trung Loung, National University of Singapore	June 2021 - Present
Zichu Fei, Fudan University	June 2021 - Present
Jierui Li, University of Electronic Science and Technology and China	Nov 2020 - Jan 2021
Lu Xu, Singapore University of Technology and Design	2020 – 2021
Liyang Cheng, Singapore University of Technology and Design	2020 – 2021
Yuxian Zhou, Beijing Institute of Technology	2020 – 2021
Huiming Wang, Zhejiang University	2018 – 2019