

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
SPC, PC/Reviewer for Conference and Journal <ul style="list-style-type: none">Senior Program Committee: AAAI-2023ACL ARR Rolling Review, ACL/EMNLP/CoNLL 2022, ACL 2021, EMNLP 2021, ACL 2020, EMNLP 2020, NLPCC 2020, AAAI 2019, EMNLP 2019, NAACL 2019, EMNLP 2018, IJCNLP 2017, NLPCC 2017Transactions 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
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)

Duv Anh, Nanyang Technological University	May 2022 - Present
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
Liying Cheng, Singapore University of Technology and Design	2020 – 2021
Yuxian Zhou, Beijing Institute of Technology	2020 – 2021
Huiming Wang, Zhejiang University	2018 – 2019