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   2016 - 2020
PhD of Computer Science
- Supervisor: Prof. Wei Lu
- Thesis: "*Leveraging Dependency Trees for Structured Prediction*" (Best Thesis Award)

The Hong Kong University of Technology and Design   2014 - 2015
Doctoral Program
- Supervisor: Prof. James She

University of Electronic Science and Technology of China   2010 - 2014
Bachelor of Engineering
- GPA - 3.91/4, Department Ranking: 6/193

PROFESSIONAL EXPERIENCE

NLP Scientist, ByteDance AI Lab   May 2020 – Present
Singapore
- Mentors: Hang Li and Wei Lu
- Research Area: natural language understanding and multi-modal QA

NLP Research Intern, DAMO Academy, Alibaba   Novembe 2019 – May 2020
Singapore
- Mentor: Lidong Bing
- Research Area: Low-resource named entity recognition

NLP Research Intern, Allen Institute for Artificial Intelligence   June 2019 – Sept 2019
Washington
- Supervisor: Pradeep Daisg & Ana Marasovic
- Research Area: Question Answering with Coreferential Knowledge

Research Intern, Singapore University of Technology and Design   Feb 2014 – May 2014
Singapore
- Mentor: Prof. Wei Lu
- Research Area: Multilingual Semantic Parsing

Research Assistant, Shanghai Jiao Tong University   Dec 2013 – Feb 2014
China
- Mentor: Prof. Yaohui Jin
- Research Area: Cyber Attack in Cloud Computing

PROFESSIONAL SERVICE

Structured Prediction Framework   https://github.com/allanj/pytorch_neural_crf
Active Maintainer

PC/Reviewer for Conference and Journal
- 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 2017
- IEEE 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	$2011 - 2012$
Awarded The Title of "Eagle Plan" in School of Automation Engineering, UESTC	$2010 - 2011$
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
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	$2018 - 2019$