

Jie Cao

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EDUCATION

- 2015 – Present **Doctor of Philosophy**
COMPUTER SCIENCE
University of Utah
- 2009 – 2012 **Master of Science**
COMPUTER SCIENCE
Huazhong University of Science and Technology (HUST)
- 2005 – 2009 **Bachelor of Engineering**
INFORMATION SECURITY
Huazhong University of Science and Technology (HUST)

RESEARCH EXPERIENCE

- NLP LAB, UNIVERSITY OF UTAH, SLC 2015 - PRESENT
- I work with Prof. Vivek Srikumar in Utah NLP Lab. I study methods for predicting structured representations of natural language text, e.g. Semantic Parsing [3], Dialogue System [5, 2, 1]
- Intern at AWS AI, AMAZON LEX, Remote SUMMER 2020
- Our paper on schema-guided dialog got accepted to NAACL 2021 [1]
- Intern at AWS AI, AMAZON LEX, Seattle SUMMER 2019
- Cross framework meaning representation parsing, ranked 1st on AMR on CoNLL 2019 shared task [3]
- Intern at TENCENT, WECHAT AI, Palo Alto SUMMER 2018
- End-to-End Goal-oriented Dialogue System [5], ranked 2nd in DSTC7 track1
 - Rhetorically Controlled Poetry Generation[4] got accepted to ACL 2019
- CGCL LAB, HUST, Wuhan 2008 - 2012
- When I was a master student at HUST, I worked with Prof. Xia Xie and Prof. Hai Jin. My research are around large scale statistical computing, programming language [6, 7], system virtualization [9, 8]

WORK EXPERIENCE

- Assitant Researcher at SOHU RDC LAB, Beijing 2014 - 2015
- Hadoop, Spark, Data migration, Data security, Distributed machine learning.
- Senior Software Engineer at ZUN CLUB, Beijing 2013 - 2014
- Heterogeneous data intergration, Hotel recommendation system.
- Software Engineer at BAIDU, Beijing 2012 - 2014
- Baidu Voice Assistant, Query analysis, Dialogue
 - Mobile Search Anti-Attack Ecosystem, Speed optimization
- Intern at Alibaba, Hangzhou 2010 - 2011
- KV Storage, MySQL, Database Replication, Real-time Computing, Distributed Pub/Sub Data Pipeline.

TEACHING & MENTORING

2019-2020	Mentor	Bachelor Thesis (Tarun Sunkaraneni), U of Utah
Spring 2018	TA	Structured Prediction, U of Utah
Fall 2016,2018	TA	Machine Learning, U of Utah
2006-2008	Leader	Algorithm&Game Team, Unique Studio, HUST

HONORS & AWARDS

2019	CoNLL Shared Task, MRP, Top 1 on AMR
2019	DSTC7, Top 2 on track 1
2010	VMware Cloud Computing Innovation Cup, Top 50
2009	Google Android Innovative Idea Sharing Award
2007	“Computer World” Magazine Scholarship
2007	Microsoft Imagine Cup
	– Algorithm Challenge, Top 50 World-Wide
	– Visual Gaming Contest, Top 2 in China, 18th World Final
2006	HUST ACM Programming Contest, Top 3

ACADEMIC SERVICES

PC Member / Reviewers for ACL_{20,21}, EACL₂₀, EMNLP₂₀, NAACL₂₁, CoNLL₁₉, COLING₂₀, AACL_{19,20}, MRP₂₀₁₉, etc.

PUBLICATIONS

- [1] **Jie Cao** and Yi Zhang. “A Comparative Study on Schema-Guided Dialogue State Tracking”. In: *Proceedings of NAACL 2021, To Appear*. 2021.
- [2] **Jie Cao**, Michael Tanana, Zac Imel, Eric Poitras, David Atkins, and Vivek Srikumar. “Observing Dialogue in Therapy: Categorizing and Forecasting Behavioral Codes”. In: *Proceedings of ACL 2019*. Florence, Italy, 2019.
- [3] **Jie Cao**, Yi Zhang, Adel Youssef, and Vivek Srikumar. “Amazon at MRP 2019: Parsing Meaning Representations with Lexical and Phrasal Anchoring”. In: *Proceedings of the Shared Task on MRP at the CoNLL 2019*. 2019.
- [4] Zhiqiang Liu, Zuohui Fu, **Jie Cao**, Gerard de Melo, Yik-Cheung Tam, Cheng Niu, and Jie Zhou. “Rhetorically Controlled Encoder-Decoder for Modern Chinese Poetry Generation”. In: *Proceedings of ACL 2019*. Florence, Italy, 2019.
- [5] Shuo Sun*, Yik-Cheung Tam*, **Jie Cao***, Can-Xiang Yan, Zuohui Fu, Cheng Niu, and Jie Zhou. “End-to-end Gated Self-attentive Memory Network for Dialog Response Selection”. In: *Proceedings of AAAI, DSTC7 Workshop*. 2019.
- [6] Xijiang Ke, Hai Jin, Xia Xie, and **Jie Cao**. “A distributed SVM method based on the iterative MapReduce”. In: *International Conference on Semantic Computing (ICSC)*. IEEE. 2015.
- [7] **Jie Cao***, Xia Xie*, Hai Jin, Xijiang Ke, and Wenzhi Cao. “JRBridge: A framework of large-scale statistical computing for R”. In: *Asia-Pacific on Services Computing Conference (APSCC)*. IEEE. 2012.
- [8] **Jie Cao**, Xia Xie, and Jin Hai. “A real-time scheduling system on embeded virtualization”. Patent ZL201110410689.1 (CN). 2011.
- [9] **Jie Cao**. “Cache Performance Evaluation on Xen Virtualization Platform”. In: *Undergraduate Thesis*. 2009.