

Aug 2024

# Xuanyu Ben Zhou

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## ACADEMIC POSITIONS

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2024 - **Arizona State University**  
Assistant Professor  
School of Computing and Augmented Intelligence

## EDUCATION

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2019 - 2024 **University of Pennsylvania**  
Ph.D. candidate, Computer and Information Science  
Advisor: Prof. Dan Roth

2015 - 2019 **University of Illinois at Urbana-Champaign**  
Bachelor of Science in Computer Science

Summer 2016 **Stanford University**  
Non-degree Summer College in Computer Science

2012 - 2015 **High School Affiliated to Renmin University of China**

## PUBLICATIONS & PRE-PRINTS

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1. Bangzheng Li, **Ben Zhou**, Xingyu Fu, Fei Wang, Dan Roth, Muhao Chen. "FamiCom: Further Demystifying Prompts for Language Models with Task-Agnostic Performance Estimation", *Arxiv* 2024
2. Yu Feng, **Ben Zhou**, Weidong Lin, Dan Roth. "BIRD: A Trustworthy Bayesian Inference Framework for Large Language Models", *Arxiv* 2024
3. **Ben Zhou**, Hongming Zhang, Sihao Chen, Dian Yu, Hongwei Wang, Baolin Peng, Dan Roth, Dong Yu. "Conceptual and Unbiased Reasoning in Language Models", *Arxiv* 2024
4. Bangzheng Li, **Ben Zhou**, Fei Wang, Xingyu Fu, Dan Roth, Muhao Chen. "Deceptive Semantic Shortcuts on Reasoning Chains: How Far Can Models Go without Hallucination?", In *NAACL* 2024

5. Chen et al., “Sub-Sentence Encoder: Contrastive Learning of Propositional Semantic Representations”, In *NAACL* 2024
6. Xu et al., “Cognitive Overload: Jailbreaking Large Language Models with Overloaded Logical Thinking”, In *NAACL (findings)* 2024
7. Xingyu Fu, **Ben Zhou**, Sihao Chen, Mark Yatskar, Dan Roth. “Interpretable by Design Visual Question Answering”, *Arxiv* 2023
8. Xiaodong Yu, **Ben Zhou**, Dan Roth. “Building Interpretable and Reliable Open Information Retriever for New Domains Overnight”, *Arxiv* 2023
9. Yu Feng, **Ben Zhou**, Haoyu Wang, Helen Jin, Dan Roth. “Generic Temporal Reasoning with Differential Analysis and Explanation”, In *ACL* 2023.
10. Xingyu Fu, **Ben Zhou**, Ishaan Chandratreya, Carl Vondrick, Dan Roth. “There’s a Time and Place for Reasoning Beyond the Image”, In *ACL* 2022.
11. Qiang Ning, **Ben Zhou**, Hao Wu, Haoruo Peng, Chuchu Fan, Matt Gardner “A Meta-framework for Spatiotemporal Quantity Extraction from Text”, In *ACL* 2022.
12. Dian Yu, **Ben Zhou**, Dong Yu. “End-to-End Chinese Speaker Identification”, In *NAACL* 2022.
13. Du et al., “RESIN-11: Schema-guided Event Prediction for 11 Newsworthy Scenarios”, In *NAACL (demos)* 2022.
14. **Ben Zhou**, Kyle Richardson, Xiaodong Yu, Dan Roth. “Learning to Decompose: Hypothetical Question Decomposition Based on Comparable Texts”, In *EMNLP* 2022.
15. **Ben Zhou**, Dian Yu, Dong Yu, Dan Roth. “Cross-Lingual Speaker Identification Using Distant Supervision”, *Arxiv* 2022.
16. **Ben Zhou**, Kyle Richardson, Qiang Ning, Tushar Khot, Ashish Sabharwal, Dan Roth. “Temporal Reasoning on Implicit Events from Distant Supervision”, In *NAACL* 2021.
17. Wen et al., “Resin: A dockerized schema-guided cross-document cross-lingual cross-media information extraction and event tracking system”, In *NAACL (demos)* 2021.

18. Muhao Chen, Weijia Shi, **Ben Zhou**, Dan Roth. "Cross-lingual Entity Alignment with Incidental Supervision", In *EACL* 2021.
19. **Ben Zhou**, Qiang Ning, Daniel Khashabi, Dan Roth. "Temporal Common Sense Acquisition with Minimal Supervision", In *ACL* 2020.
20. Gardner et al., "Evaluating Models' Local Decision Boundaries via Contrast Sets", In *EMNLP (Findings)* 2020.
21. **Ben Zhou**, Daniel Khashabi, Qiang Ning, Dan Roth. "'Going on a vacation' takes longer than 'Going for a walk': A Study of Temporal Commonsense Understanding", In *EMNLP* 2019.
22. **Ben Zhou**, Daniel Khashabi, Chen-Tse Tsai, Dan Roth. "Zero- Shot Open Entity Typing as Type Compatible Grounding", In *EMNLP* 2018.
23. Qiang Ning, **Ben Zhou**, Zhili Feng, Haoruo Peng, Dan Roth. "CogCompTime: A Tool for Understanding Time in Natural Language", In *EMNLP (demo track)* 2018
24. Khashabi et al., "CogCompNLP: Your Swiss Army Knife for NLP", In *LREC* 2018

## TUTORIALS

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EMNLP 2024 (to appear)	Enhancing LLM Capabilities Beyond Scaling Up Wenpeng Yin, Muhao Chen, Rui Zhang, <b>Ben Zhou</b> , Fei Wang, Dan Roth
ACL 2023	Indirectly Supervised Natural Language Processing Wenpeng Yin, Muhao Chen, <b>Ben Zhou</b> , Qiang Ning, Kai-Wei Chang, Dan Roth <a href="https://underline.io/events/395/sessions">https://underline.io/events/395/sessions</a>
NAACL 2022	New Frontiers of Information Extraction Muhao Chen, Lifu Huang, Manling Li, <b>Ben Zhou</b> , Heng Ji, Dan Roth <a href="https://underline.io/events/325/sessions">https://underline.io/events/325/sessions</a>

## INDUSTRIAL EXPERIENCE

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Fall 2023	Amazon AWS Bedrock Research Intern Hosts: Dr. Qiang Ning, Dr. Sarthak Jain, Dr. Yi Zhang
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Summer 2023	Tencent Seattle AI Lab <i>Research Intern</i> Hosts: Dr. Hongming Zhang, Dr. Dian Yu, Dr. Hongwei Wang
Fall 2021	Allen Institute for AI (AI2) <i>Research Intern, Aristo</i> Host: Dr. Kyle Richardson
Summer 2021	Tencent Seattle AI Lab <i>Research Intern</i> Host: Dr. Dian Yu
Summer 2020	Allen Institute for AI (AI2) <i>Research Intern, Aristo</i> Host: Dr. Kyle Richardson
Summer 2018	Facebook Inc. <i>Software Engineer Intern</i> Team: Community Integrity: Care Tools
Summer 2015	Baidu Inc. <i>Software Engineer Intern</i> Team: Baidu Encyclopedia

## TEACHING

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2020 Fall	Applied Machine Learning CIS-519 University of Pennsylvania <a href="https://www.seas.upenn.edu/~cis5190/fall2020/">https://www.seas.upenn.edu/~cis5190/fall2020/</a>
2020 Spring	Reasoning for Natural Language Understanding CIS-700 University of Pennsylvania <a href="https://www.seas.upenn.edu/~cis7000a/Spring20/">https://www.seas.upenn.edu/~cis7000a/Spring20/</a>

## MENTORING

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2022 Summer	Mentee: Yu Feng Currently at University of Pennsylvania
2021	Mentee: Alexander Dong Currently at Bloomberg LP

## AWARDS

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2019 CRA Outstanding Undergraduate Researcher Awards Finalist

2019 ENIAC Fellowship

15F,17F,18S Dean's List, College of Engineering, UIUC

#### PROFESSIONAL SERVICES

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Member Association for Computational Linguistics (ACL)  
2018 - now

Action Editor ACL Rolling Review  
2024 - now

Reviewer AAAI, ACL, COLM, EACL, EMNLP, NAACL, NLPCC, IJCAI  
2019 - now