

Xuanyu Ben Zhou

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<http://xuanyu.me>

EDUCATION

- 2019 - 2024 **University of Pennsylvania**
(*expected*) Ph.D. student, 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**

HONORS & AWARDS

- 2019 Computing Research Association (CRA) Outstanding Undergraduate Researcher Awards Finalist
- 2019 ENIAC Fellowship, University of Pennsylvania
- F15, F17, S18 Dean's List, College of Engineering, University of Illinois at Urbana-Champaign

PUBLICATIONS & PRE-PRINTS

- P1. Bangzheng Li, **Ben Zhou**, Fei Wang, Xingyu Fu, Dan Roth, Muhao Chen. "Deceiving Semantic Shortcuts on Reasoning Chains: How Far Can Models Go without Hallucination?", *Arxiv* 2023
- P2. Xingyu Fu, **Ben Zhou**, Sihao Chen, Mark Yatskar, Dan Roth. "Interpretable by Design Visual Question Answering", *Arxiv* 2023
- P3. Nan Xu, Fei Wang, **Ben Zhou**, Bang Zheng Li, Chaowei Xiao, Muhao Chen. "Cognitive Overload: Jailbreaking Large Language Models with Overloaded Logical Thinking", *Arxiv* 2023
- P4. Chen et al., "Sub-Sentence Encoder: Contrastive Learning of Propositional Semantic Representations", *Arxiv* 2023
- P5. Xiaodong Yu, **Ben Zhou**, Dan Roth. "Building Interpretable and Reliable Open Information Retriever for New Domains Overnight", *Arxiv* 2023

- P6. Yu Feng, **Ben Zhou**, Haoyu Wang, Helen Jin, Dan Roth. "Generic Temporal Reasoning with Differential Analysis and Explanation", In *Proceedings of ACL 2023*.
- P7. Xingyu Fu, **Ben Zhou**, Ishaan Chandratreya, Carl Vondrick, Dan Roth. "There's a Time and Place for Reasoning Beyond the Image," In *Proceedings of ACL 2022*.
- P8. Qiang Ning, **Ben Zhou**, Hao Wu, Haoruo Peng, Chuchu Fan, Matt Gardner "A Meta-framework for Spatiotemporal Quantity Extraction from Text," In *Proceedings of ACL 2022*.
- P9. Dian Yu, **Ben Zhou**, Dong Yu. "End-to-End Chinese Speaker Identification," In *Proceedings of NAACL 2022*.
- P10. Du et al., "RESIN-11: Schema-guided Event Prediction for 11 Newsworthy Scenarios," In *Proceedings of NAACL (demos) 2022*.
- P11. **Ben Zhou**, Kyle Richardson, Xiaodong Yu, Dan Roth. "Learning to Decompose: Hypothetical Question Decomposition Based on Comparable Texts," In *Proceedings of EMNLP 2022*.
- P12. **Ben Zhou**, Dian Yu, Dong Yu, Dan Roth. "Cross-Lingual Speaker Identification Using Distant Supervision," In *Wise-Supervision 2022*.
- P13. **Ben Zhou**, Kyle Richardson, Qiang Ning, Tushar Khot, Ashish Sabharwal, Dan Roth. "Temporal Reasoning on Implicit Events from Distant Supervision", In *Proceedings of NAACL 2021*.
- P14. Wen et al., "Resin: A dockerized schema-guided cross-document cross-lingual cross-media information extraction and event tracking system", In *Proceedings of NAACL (demos) 2021*.
- P15. Muhao Chen, Weijia Shi, **Ben Zhou**, Dan Roth. "Cross-lingual Entity Alignment with Incidental Supervision", In *Proceedings of EACL 2021*.
- P16. **Ben Zhou**, Qiang Ning, Daniel Khashabi, Dan Roth. "Temporal Common Sense Acquisition with Minimal Supervision", In *Proceedings of ACL 2020*.
- P17. Gardner et al., "Evaluating Models' Local Decision Boundaries via Contrast Sets", In *Proceedings of EMNLP (Findings) 2020*.
- P18. **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 *Proceedings of EMNLP 2019*.
- P19. **Ben Zhou**, Daniel Khashabi, Chen-Tse Tsai, Dan Roth. "Zero- Shot Open Entity Typing as Type Compatible Grounding", In *Proceedings of EMNLP 2018*.
- P20. Qiang Ning, **Ben Zhou**, Zhili Feng, Haoruo Peng, Dan Roth. "CogCompTime: A Tool for Understanding Time in Natural Language", In *Proceedings of EMNLP (demo track) 2018*

P21. Khashabi et al., “CogCompNLP: Your Swiss Army Knife for NLP”, In *Proceedings of LREC 2018*

TUTORIALS

1. Wenpeng Yin, Muhao Chen, Rui Zhang, **Ben Zhou**, Fei Wang, Dan Roth. “Enhancing LLM Capabilities Beyond Scaling Up.” *Accepted at EMNLP (Tutorial) 2024*.
2. Wenpeng Yin, Muhao Chen, **Ben Zhou**, Qiang Ning, Kai-Wei Chang, Dan Roth. “Indirectly Supervised Natural Language Processing.” In *Proceedings of ACL (Tutorial) 2023*.
<https://underline.io/events/395/sessions>
3. Muhao Chen, Lifu Huang, Manling Li, **Ben Zhou**, Heng Ji, Dan Roth. “New Frontiers of Information Extraction.” In *Proceedings of NAACL (Tutorial) 2022*.
<https://underline.io/events/325/sessions>

TEACHING & MENTORING

Teaching Assistant

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| Fall 2020 | CIS-519 Applied Machine Learning, <i>University of Pennsylvania</i>
Instructor: Prof. Dan Roth
https://www.seas.upenn.edu/~cis5190/fall2020/ |
| Spring 2020 | CIS-700 Reasoning for Natural Language Understanding, <i>University of Pennsylvania</i>
Instructor: Prof. Dan Roth
https://www.seas.upenn.edu/~cis7000a/Spring20/ |

Predocctoral Student Mentoring

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| Summer 2022 | Yu Feng, M.S. student at Duke University
Current Ph.D student at the University of Pennsylvania |
| 2021 | Alexander Dong, B.E. student at the University of Pennsylvania
Current Software Engineer at Bloomberg LP |

INDUSTRIAL EXPERIENCE

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| Fall 2023 | Research Intern, Amazon AWS Bedrock
Hosts: Drs. Qiang Ning, Sarthak Jain, Yi Zhang |
| Summer 2023 | Research Intern, Tencent Seattle AI Lab
Hosts: Drs. Hongming Zhang, Dian Yu, Hongwei Wang |

- Fall 2021, Summer 2020 Research Intern, **Aristo Team at Allen Institute for AI (AI2)** [P11, P13]
Host: Dr. Kyle Richardson
- Summer 2021 Research Intern, **Tencent Seattle AI Lab** [P9, P12]
Host: Dr. Dian Yu
- Summer 2018 Software Engineer Intern, **Facebook Inc.**
Team: Community Integrity: Care Tools
- Summer 2015 Software Engineer Intern, **Baidu Inc.**
Team: Baidu Encyclopedia

PROFESSIONAL SERVICES

- 2019 - Current Reviewer
AAAI, ACL, EACL, EMNLP, NAACL, NLPCC, IJCAI