

XUANYU (BEN) ZHOU

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EDUCATION

University of Illinois at Urbana-Champaign May 2019 (*expected*)
Bachelor of Science in Computer Science | GPA 3.8/4.0 | Intelligence and Big Data Track

Stanford University Summer 2016
Computer Science Summer Program | GPA 4.0/4.0 | Algorithms | Computer Graphics

EXPERIENCE

Cognitive Computation Group, UIUC & UPenn January 2017 – Present
Research Assistant in Natural Language Processing

- Advisor: Prof. Dan Roth
- Research Interest: NLP methods that move beyond direct supervision.
- Experience on Entity Typing, Entity Recognition, Relation Extraction, Entailment, Temporal Reasoning, Common Sense

PROJECTS

Temporal Common-Sense Reasoning, UIUC & UPenn 2018 – Present
Current ongoing research project, collaborating with Qiang Ning, Daniel Khashabi and Prof. Dan Roth

- Aim to let machines to be able to reason like human's common sense.
- Focus on the temporal aspect of events, study approaches to perceive time.

Zero Shot Entity Typing ^[1], UIUC & UPenn 2018

- Proposed a novel approach to contextual entity typing that is not limited to a fixed label set and uses no typing-specific annotation.
- Addresses the issues most previous typing approaches share: a fixed type set and significantly lower performance on out-of-domain data.

CogComp Software ^{[2][3]}, UIUC 2017 - Present

- Maintained/improved various CogComp NLP software including [cogcomp-nlp](#), [ljava](#) and [appelles](#).
- Implemented mention detection and relation extraction packages, and two demos to provide high reproducibility on published works.

PUBLICATIONS

- [1] **B. Zhou**, D. Khashabi, C.-T. Tsai and D. Roth, "Zero- Shot Open Entity Typing as Type-Compatible Grounding", In proceedings of *Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2018.
- [2] Q. Ning, **B. Zhou**, Z. Feng, H. Peng and D. Roth, "CogCompTime: A Tool for Understanding Time in Natural Language", In proceedings of *Conference on Empirical Methods in Natural Language Processing (Demo Track)*, 2018
- [3] D. Khashabi, M. Sammons, **B. Zhou**, T. Redman, C. Christodoulopoulos, V. Srikumar, N. Rizzolo, L. Ratnov, G. Luo, Q. Do, C.-T. Tsai, S. Roy, S. Mayhew, Z. Feng, J. Wieting, X. Yu, Y. Song, S. Gupta, S. Upadhyay, N. Arivazhagan, Q. Ning, S. Ling and D. Roth, "CogCompNLP: Your Swiss Army Knife for NLP", In proceedings of *The International Conference on Language Resources and Evaluation*, 2018