

Boyuan (Steven) Zheng

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EDUCATION

The Ohio State University, Columbus

2023 - present

Ph.D. Candidate in Computer Science

Advisors: Prof. Yu Su

Johns Hopkins University, Baltimore

2021 - 2023

Master student in Computer Science

Advisors: Prof. Benjamin Van Durme

Northeastern University, Shenyang

2017 - 2021

B.Tech (Honours) in Software Engineering

GPA: 92.5/100, Rank: 2/543

Advisor: Prof. Yue Zhang (Westlake University) & Prof. Xiaodan Zhu (Queen's University)

PROFESSIONAL EXPERIENCES

The Ohio State University, Research Assistant

Sep 2023 - Present

- Evaluated and explored solutions for image referring using image annotation
- Developed multimodal web agent by grounding vision-language models
- Developed automatic testing tool to enable online evaluation in real website for Web Agent(**NeurIPS'23**)

Amazon Alexa AI, Applied Scientist Intern

June 2023 - Sep 2023

- Trained high-performance query rewriting models based on FLAN-T5 with million-level datasets.
- Augmented model performance and personalized user experience with retrieval from user history queries.
- Optimized model efficiency by retrieval deduplication based on self-information and pairwise mutual information.

Johns Hopkins University, Research Assistant

Jan 2022 - May 2023

Supervisor: Prof. Benjamin Van Durme

- Built a large-scale coreference resolution benchmark in multiparty dialogue with rich third-person reference (**TACL'23**)
- Developed mention linking annotation interface for dialogue coreference resolution task
- Developed dataset projection method to extend English dataset to 62 languages with low cost
- Conducted an empirical study on 3 typical span finding methods across 5 Information Extraction tasks (**EMNLP'22**)

PUBLICATIONS

7. **Mind2Web: Towards a Generalist Agent for the Web** (**NeurIPS'23 Spotlight**)

Xiang Deng, Yu Gu, **Boyuan Zheng**, Shijie Chen, Samuel Stevens, Boshi Wang, Huan Sun, Yu Su

6. **Flatness-Aware Prompt Selection Improves Accuracy and Sample Efficiency** (**EMNLP'23**)

Lingfeng Shen, Weiting Tan, **Boyuan Zheng**, Daniel Khashabi

5. **Multilingual Coreference Resolution in Multiparty Dialogue** (**TACL'23**)

Boyuan Zheng, Patrick Xia, Mahsa Yarmohammadi, Benjamin Van Durme

4. **An Empirical Study on Finding Spans** (**EMNLP'22**)

Weiwei Gu*, **Boyuan Zheng***, Yunmo Chen, Tongfei Chen, Benjamin Van Durme

3. **Learn to Remember: Transformer with Recurrent Memory for Document-level Machine Translation** (**NAACL'22**)

Yukun Feng, Feng Li, Ziang Song, **Boyuan Zheng**, Philipp Koehn,

2. **SemEval-2021 Task 4: Reading Comprehension of Abstract Meaning** (**SemEval'21**)

Boyuan Zheng, Zhenhua Ling, Quan Liu, Yuping Ruan, Si Wei, Xiaodan Zhu

1. **Exploring Generalization Ability of Pretrained Language Models on Arithmetic and Logical Reasoning** (**NLPCC'21**)

Cunxiang Wang*, **Boyuan Zheng***, Yuchen Niu and Yue Zhang

SKILLS

Deepspeed, Redis, Transformers, Faiss, Python, PyTorch, Tensorflow, Spark, Java, SQL, JavaScript

ACADEMIC SERVICE

Reviewer: EMNLP-2023, ACL-2023, AACL-2023, ACL Rolling Review, SemEval-2022, SemEval-2024
Volunteer: NAACL-2022, ICML-2022, EMNLP-2022

SELECTED AWARDS AND HONORS

- National Scholarship 2018
- The First Prize Scholarship of Northeastern University 2018
- Pacemaker to Merit Student 2018
- Interdisciplinary Contest In Modeling - Meritorious Winner 2019