

SHIJIE CHEN

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RESEARCH INTEREST

My research interest lies in natural language processing (NLP) with a focus on large language models and language agents. I am generally interested in building capable and trustworthy AI agent systems.

EDUCATION

The Ohio State University (OSU) Sep 2021 – Present
Ph.D. in Computer Science and Engineering Columbus, OH, USA
Co-advised by Prof. Yu Su and Prof. Huan Sun

Southern University of Science and Technology (SUSTech) Sep 2016 – Jun 2020
B.E. in Computer Science and Technology Shenzhen, China

PROFESSIONAL EXPERIENCE

Student Researcher May 2025 – Aug 2025
Google LLC Seattle, WA, USA
Manager: Dr. Yu Gan

AI Research Scientist Intern May 2024 – Aug 2024
Zoom Video Communications, Inc. Remote, USA
Manager: Dr. Silei Xu

Applied Scientist Intern May 2023 – Aug 2023
Amazon Alexa AI Sunnyvale, CA, USA
Manager: Dr. Di Jin

Research Assistant Sep 2020 – June 2021
Department of Computer Science and Engineering, SUSTech Shenzhen, China
Advisor: Prof. Yu Zhang

Machine Learning Engineer Intern Jun 2019 – Jun 2020
AI Lab, ZhuiYi Technology Shenzhen, China
Manager: Dr. Xuefeng Yang

SELECTED PAPERS

* indicates equal contribution

1. Attention in Large Language Models Yields Efficient Zero-Shot Re-Rankers

Shijie Chen, Bernal Jiménez Gutiérrez, Yu Su.

In The Thirteenth International Conference on Learning Representations, 2025

2. Completing A Systematic Review in Hours instead of Months with Interactive AI Agents

Rui Qiu*, **Shijie Chen***, Yu Su, Po-Yin Yen, Han-Wei Shen.

In Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics, 2025

3. ScienceAgentBench: Toward Rigorous Assessment of Language Agents for Data-Driven Scientific Discovery

Ziru Chen, **Shijie Chen**, Yuting Ning, Qianheng Zhang, Boshi Wang, Botao Yu, Yifei Li, Zeyi Liao, Chen Wei, Zitong Lu, Vishal Dey, Mingyi Xue, Frazier N. Baker, Benjamin Burns, Daniel Adu-Ampratwum, Xuhui Huang, Xia Ning, Song Gao, Yu Su, Huan Sun

In The Thirteenth International Conference on Learning Representations, 2025

4. AutoSDT: Scaling Data-Driven Discovery Tasks Toward Open Co-Scientists

Yifei Li, Hanane Nour Moussa, Ziru Chen, **Shijie Chen**, Botao Yu, Mingyi Xue, Benjamin Burns, Tzu-Yao Chiu, Vishal Dey, Zitong Lu, Chen Wei, Qianheng Zhang, Tianyu Zhang, Song Gao, Xuhui Huang, Xia Ning, Nesreen K Ahmed, Ali Payani, Huan Sun

In Proceedings of the 2025 Conference on Empirical Methods in Natural Language Processing, 2025

5. Mind2Web 2: Evaluating Agentic Search with Agent-as-a-Judge
 Boyu Gou, Zanming Huang, Yuting Ning, Yu Gu, Michael Lin, Weijian Qi, Andrei Kopanev, Botao Yu, Bernal Jiménez Gutiérrez, Yiheng Shu, Chan Hee Song, Jiaman Wu, **Shijie Chen**, Hanane Nour Moussa, Tianshu Zhang, Jian Xie, Yifei Li, Tianci Xue, Zeyi Liao, Kai Zhang, Boyuan Zheng, Zhaowei Cai, Viktor Rozgic, Morteza Ziyadi, Huan Sun, Yu Su
Advances in Neural Information Processing Systems, 2025
6. Multi-task learning in natural language processing: An overview
Shijie Chen, Yu Zhang, and Qiang Yang.
ACM Computing Surveys, 2024
7. Mind2Web: Towards a Generalist Agent for the Web
 Xiang Deng, Yu Gu, Boyuan Zheng, **Shijie Chen**, Samuel Stevens, Boshi Wang, Huan Sun, and Yu Su
Advances in Neural Information Processing Systems, 2023
8. Error Detection for Interactive Text-to-SQL Semantic Parsing
Shijie Chen, Ziru Chen, Huan Sun, and Yu Su.
In Findings of the Association for Computational Linguistics: EMNLP 2023
9. Text-to-SQL Error Correction with Language Models of Code
 Ziru Chen, **Shijie Chen**, Michael White, Raymond Mooney, Ali Payani, Jayanth Srinivasa, Yu Su, and Huan Sun
In Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics, 2023
10. Bootstrapping a User-Centered Task-Oriented Dialogue System
Shijie Chen*, Ziru Chen*, Xiang Deng, Ashley Lewis, Lingbo Mo, Samuel Stevens, Zhen Wang, Xiang Yue, Tianshu Zhang, Yu Su, and Huan Sun.
*:Team leads, equal contribution
Alexa Prize TaskBot Challenge Proceedings (3rd place winner), 2022
11. Technical report on Conversational Question Answering.
 Ying Ju, Fubang Zhao, **Shijie Chen**, Bowen Zheng, Xuefeng Yang, and Yunfeng Liu.
arXiv preprint, 2019

AWARDS

3 rd place in the 1st Alexa Prize TaskBot Challenge (\$50K prize), Amazon Outstanding Graduate Award, Department of Computer Science and Engineering, SUSTech	2022 2020
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