

# SHIJIE CHEN

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## RESEARCH INTEREST

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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

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<b>The Ohio State University (OSU)</b> <i>Ph.D.</i> in Computer Science and Engineering Co-advised by Prof. Yu Su and Prof. Huan Sun	Sep 2021 – Present Columbus, OH, USA
<b>Southern University of Science and Technology (SUSTech)</b> <i>B.E.</i> in Computer Science and Technology	Sep 2016 – Jun 2020 Shenzhen, China

## PROFESSIONAL EXPERIENCE

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<b>Student Researcher</b> <i>Google LLC</i> Manager: Dr. Yu Gan	May 2025 – Aug 2025 Seattle, WA, USA
<b>AI Research Scientist Intern</b> <i>Zoom Video Communications, Inc.</i> Manager: Dr. Silei Xu	May 2024 – Aug 2024 Remote, USA
<b>Applied Scientist Intern</b> <i>Amazon Alexa AI</i> Manager: Dr. Di Jin	May 2023 – Aug 2023 Sunnyvale, CA, USA
<b>Research Assistant</b> <i>Department of Computer Science and Engineering, SUSTech</i> Advisor: Prof. Yu Zhang	Sep 2020 – June 2021 Shenzhen, China
<b>Machine Learning Engineer Intern</b> <i>AI Lab, ZhuiYi Technology</i> Manager: Dr. Xuefeng Yang	Jun 2019 – Jun 2020 Shenzhen, China

## SELECTED PAPERS

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\* indicates equal contribution

- 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*
- 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*
- 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*
- 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

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