

Ziru “Ron” Chen

Curriculum Vitae

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INTERESTS

My research interests lie in *natural language processing* and *machine learning*. I am particularly interested in developing **conversational AI agents** that can accomplish real-world tasks by processing heterogeneous data, planning and reasoning in programs, and collaborating with users.

EDUCATION

The Ohio State University, Columbus, OH Aug 2022 – May 2027
Ph.D. in Computer Science and Engineering **GPA: 4.0 / 4.0**

The Ohio State University, Columbus, OH Aug 2018 – May 2022
B.S. in Computer and Information Science, Math Minor **GPA: 3.97 / 4.0**
Summa Cum Laude

EXPERIENCES

Research Assistant, The Ohio State University Dec 2020 – Present
Advisor: Dr. *Huan Sun*

Visiting Student Research Intern, Westlake University May 2021 – Jul 2021
Advisor: Dr. *Zhenzhong Lan*

Teaching Assistant, The Ohio State University Aug 2019 – May 2022

HONORS

University Fellowship, The Ohio State University 2022–2023, 2026–2027
3rd Place (Student Co-lead), 1st Alexa Prize Taskbot Challenge 2022
Undergraduate Research Award, The Ohio State University 2022
CIS Undergrad Scholarship, The Ohio State University 2021
Dean’s List, The Ohio State University (6 semesters) 2018–2021

PUBLICATIONS

[10] *When is Tree Search Useful for LLM Planning? It Depends on the Discriminator*

Ziru Chen, Michael White, Raymond Mooney, Ali Payani, Yu Su, Huan Sun
The 62nd Annual Meeting of the Association for Computational Linguistics (ACL 2024, Long)

[9] *eCeLLM: Generalizing Large Language Models for E-commerce from Large-scale, High-quality Instruction Data*

Bo Peng*, Xinyi Ling*, **Ziru Chen**, Huan Sun, Xia Ning (* equal contribution)
Proceedings of the 41st International Conference on Machine Learning (ICML 2024, Long)

[8] *Automatic Evaluation of Attribution by Large Language Models*

Xiang Yue, Boshi Wang, **Ziru Chen**, Kai Zhang, Yu Su, Huan Sun
Findings of the Association for Computational Linguistics: EMNLP 2023 (Findings 2023, Long)

[7] *Error Detection for Text-to-SQL Semantic Parsing*

Shijie Chen, **Ziru Chen**, Huan Sun, Yu Su
Findings of the Association for Computational Linguistics: EMNLP 2023 (Findings 2023, Long)

[6] *Exploring Chain-of-Thought Style Prompting for Text-to-SQL*

Chang-Yu Tai*, **Ziru Chen***, Tianshu Zhang, Xiang Deng, Huan Sun (* equal contribution)
The 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP 2023, Long)

[5] *Roll Up Your Sleeves: Working with a Collaborative and Engaging Task-Oriented Dialogue System*

Lingbo Mo, Shijie Chen, **Ziru Chen**, Xiang Deng, Ashley Lewis, Sunit Singh, Samuel Stevens, Chang-Yu Tai, Zhen Wang, Xiang Yue, Tianshu Zhang, Yu Su, Huan Sun
The 24th Meeting of the Special Interest Group on Discourse and Dialogue (SIGDIAL 2023, Demo)

[4] *Text-to-SQL Error Correction with Language Models of Code*

Ziru Chen, Shijie Chen, Michael White, Raymond Mooney, Ali Payani, Jayanth Srinivasa, Yu Su, Huan Sun
The 61st Annual Meeting of the Association for Computational Linguistics (ACL 2023, Short)

[3] *SalsaBot: Towards a Robust and Generalizable Embodied Agent*
Chan Hee Song*, Jiaman Wu*, Ju-Seung Byun, Zexin Xu, Vardaan Pahuja, Goonmeet Bajaj, Samuel Stevens, **Ziru Chen**, Yu Su (* equal contribution)
The 1st Proceedings of Alexa Prize Simbot Challenge (Alexa Prize 2023, Long)
The Embodied AI 2023 Workshop (EmbodiedAI 2023, Short)

[2] *Error Detection for Interactive Text-to-SQL Semantic Parsing*
Shijie Chen, **Ziru Chen**, Huan Sun, Yu Su
The 2nd Workshop on Interactive Learning for Natural Language Processing (InterNLP 2022, Short)

[1] *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, Huan Sun (* equal contribution)
The 1st Proceedings of Alexa Prize Taskbot Challenge (Alexa Prize 2022, Long)

TEACHING

CSE 5525 Speech and Language Processing, Undergraduate & Graduate Level
Teaching Assistant, The Ohio State University (Autumn 2021; Spring 2022)

CSE 2321 Foundations I: Discrete Structures, Undergraduate Level
Teaching Assistant, The Ohio State University (Autumn 2019; Spring, Autumn 2020)

SERVICE

Program Committee: AAAI (2023, 2024), ACL Rolling Review (2024)
Secondary Reviewer: EMNLP (2023), TACL (2024)

SKILLS

Programming

Python, C, Java, MATLAB, HTML and CSS, Ruby, JavaScript

Languages

*Chinese (Native), English (Fluent), Japanese (Proficient; **JLPT N2**), Korean (Elementary)*

REFERENCES

Huan Sun, Ph.D.

Associate Professor and College of Engineering Innovation Scholar
Department of Computer Science and Engineering
The Ohio State University
NSF CAREER Award (2020), Google Research Scholar Award (2022)
Email: sun.397@osu.edu
Website: <http://web.cse.ohio-state.edu/~sun.397/>

Yu Su, Ph.D.

Distinguished Assistant Professor of Inclusive Excellence
Department of Computer Science and Engineering
The Ohio State University / Microsoft Semantic Machines
Lumley Research Award (2023), ACL Outstanding Paper Award (2023)
Email: su.809@osu.edu
Website: <https://ysu1989.github.io/>

Michael White, Ph.D.

Professor and Vice Chair
Department of Linguistics
The Ohio State University
Lumley Interdisciplinary Research Award (2022)
Email: white.1240@osu.edu
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Ali Payani, Ph.D.

Senior AI Researcher
Cisco Research
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Website: <https://scholar.google.com/citations?hl=en&user=9rHwD8wAAAAJy>