# Ziru "Ron" Chen
*Curriculum Vitae*
Last Updated: May 16, 2024

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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 62st 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 41th 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
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**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
**Website**: https://u.osu.edu/white.1240/

**Ali Payani, Ph.D.**
Senior AI Researcher
Cisco Research
**Email**: apayani@cisco.com
**Website**: https://scholar.google.com/citations?hl=en&user=9rHwD8wAAAAJy