

Ziru “Ron” Chen

Curriculum Vitae

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INTERESTS	My research interests lie in <i>natural language processing</i> and <i>machine learning</i> . 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 Ph.D. in Computer Science and Engineering	Aug 2022 – May 2027 GPA: 4.0 / 4.0
	The Ohio State University, Columbus, OH B.S. in Computer and Information Science, Math Minor Summa Cum Laude	Aug 2018 – May 2022 GPA: 3.97 / 4.0
EXPERIENCES	Research Assistant , The Ohio State University Advisor: Dr. <i>Huan Sun</i> - Language Agents for Scientific Tasks (Ongoing) - Planning and Reasoning with Large Language Models (ACL’24) - Interactive Text-to-SQL Semantic Parsing (ACL’23 , EMNLP’23 , EMNLP Findings’23) - User-Centered Task-Oriented Dialogue System (Alexa Prize’22 , 3rd Place Honor)	Dec 2020 – Present
	Visiting Student Research Intern , Westlake University Advisor: Dr. <i>Zhenzhong Lan</i>	May 2021 – Jul 2021
	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, Amazon	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	[11] <i>ScienceAgentBench: Toward Rigorous Assessment of Language Agents for Data-Driven Scientific Discovery</i> 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 submission (Arxiv 2024, Long)	
	[10] <i>When is Tree Search Useful for LLM Planning? It Depends on the Discriminator</i> 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] <i>eCeLLM: Generalizing Large Language Models for E-commerce from Large-scale, High-quality Instruction Data</i> Bo Peng*, Xinyi Ling*, Ziru Chen , Huan Sun, Xia Ning (* equal contribution) Proceedings of the 41st International Conference on Machine Learning (ICML 2024, Long) Our ECInstruct dataset is recommended at Amazon KDD Cup 2024.	
	[8] <i>Automatic Evaluation of Attribution by Large Language Models</i> Xiang Yue, Boshi Wang, Ziru Chen , Kai Zhang, Yu Su, Huan Sun Findings of the Association for Computational Linguistics: EMNLP 2023 (Findings 2023, Long) Our dataset and model has more than 3.6K and 2.5K downloads on Huggingface.	
	[7] <i>Error Detection for Text-to-SQL Semantic Parsing</i> Shijie Chen, Ziru Chen , Huan Sun, Yu Su Findings of the Association for Computational Linguistics: EMNLP 2023 (Findings 2023, Long)	
	[6] <i>Exploring Chain-of-Thought Style Prompting for Text-to-SQL</i>	

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)
Our TacoBot is the third-place winner and deployed in Amazon Alexa.

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, 2025), ACL Rolling Review (2024), ICLR (2025)
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.

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Department of Computer Science and Engineering
The Ohio State University
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Michael White, Ph.D.

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