

Ziru “Ron” Chen

Curriculum Vitae

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INTERESTS	Natural Language Processing, Conversational AI, Computational Social Science	
EDUCATION	The Ohio State University , Columbus, OH B.S. Computer and Information Science, Math Minor	Aug 2018 – May 2022 GPA: 3.973 / 4.0
EXPERIENCES	Undergrad Research Assistant , The Ohio State University – Advisor: Dr. <i>Huan Sun</i> Visiting Student Research Intern , Westlake University – Advisor: Dr. <i>Zhenzhong Lan</i> Student Instructional Assistant , The Ohio State University	Dec 2020 – Present May – Jul 2021 Aug 2019 – Dec 2020; Aug 2021 – Present
HONORS	CIS Undergrad Scholarship , The Ohio State University Dean’s List , The Ohio State University (5 semesters)	2021 2018 – Present
RESEARCH	Taco: A Task-Oriented Collaborative Dialogue System Advisor: Dr. <i>Huan Sun</i> , Dr. <i>Yu Su</i> Jun 2021 – Present At the Amazon Alexa Prize TaskBot Challenge , we propose a novel TaskBot, Taco, that aims to support cooking and DIY tasks via engaging multi-modal interaction. As one of the team leads , I actively design and implement various components in our system. Meanwhile, I analyze recorded user interactions regularly to explore new research ideas in task-oriented dialogue system. Taco is interacting with real users and being consistently improved in the competition. Towards Human-like Dialogue Systems for Mental Health Counseling Advisor: Dr. <i>Zhenzhong Lan</i> May – Jul 2021 Since there exists a growing demand for mental health counseling, we aim to build Conversational AIs that may help counselors with their jobs. At Westlake, I participated in various aspects of the project , such as training a large-scale Transformer-XL model, developing a Chinese Poly-Encoder, and exploring non-autoregressive text generation and conversation summarization. Cross-Domain Adaptation for Text-to-SQL Semantic Parsers Advisor: Dr. <i>Huan Sun</i> Dec 2020 – Present Recent advances in Text-to-SQL have achieved high accuracy on different benchmarks. However, most exhibit a huge performance drop when applied across unseen domains. I experimented with existing methods to adapt a SOTA semantic parser to new domains and compared the methods under fair experimental settings. Based on my preliminary studies, I propose to build a new interactive semantic parsing framework to efficiently adapt a parser to new domains.	
TEACHING	<i>CSE 5525 Speech and Language Processing</i> , Undergraduate & Graduate Level Teaching Assistant, The Ohio State University (Autumn 2021; Spring 2022) <i>CSE 2321 Foundations I: Discrete Structures</i> , Undergraduate Level Teaching Assistant, The Ohio State University (Autumn 2019; Spring, Autumn 2020)	

SERVICE

Secretary: CSE/CIS Peer Mentors (Aug 2020 – Jul 2021)

Mentor: CSE/CIS Peer Mentors (Aug 2019 – Present)

Panelist: OSU China Gateway Pre-Departure Orientation (Jun 2021)

SKILLS

Programming

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

Toolkits & Packages

Numpy, Pytorch, Tensorflow, Pandas, Matplotlib, Sklearn, NLTK, Javaplex, Ripser

Languages

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

REFERENCES

Huan Sun, Ph.D.

Assistant Professor, Department of Computer Science and Engineering

The Ohio State University

NSF CAREER Award (2020), Google Faculty Research Award (2020)

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Yu Su, Ph.D.

Assistant Professor, Department of Computer Science and Engineering

The Ohio State University / Microsoft Semantic Machines

NSF ICICLE Institute AI Team Lead

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Zhenzhong Lan, Ph.D.

Assistant Professor, School of Engineering

Westlake University

First Author of ALBERT (ICLR 2020)

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