

# Ziru “Ron” Chen

*Curriculum Vitae*

Last Updated: July 27, 2021

Email: chen.8336@osu.edu

Website: <https://ronch99.github.io/>

Twitter: @RonZiruChen

---

INTERESTS	Natural Language Processing, Conversational AI, Computational Social Science	
EDUCATION	<b>The Ohio State University</b> , Columbus, OH B.S. Computer and Information Science, Math Minor	Aug 2018 – May 2022 <b>GPA: 3.973 / 4.0</b>
EXPERIENCES	<b>Undergrad Research Assistant</b> , The Ohio State University – Advisor: Dr. <i>Huan Sun</i> <b>Visiting Student Research Intern</b> , Westlake University – Advisor: Dr. <i>Zhenzhong Lan</i> <b>Student Instructional Assistant</b> , The Ohio State University	Dec 2020 – Present May – Jul 2021 Aug 2019 – Dec 2020; Aug 2021 – Present
HONORS	<b>CIS Undergrad Scholarship</b> , The Ohio State University <b>Dean’s List</b> , The Ohio State University (5 semesters)	2021 2018 – Present
RESEARCH	<b>Taco: A Task-Oriented Collaborative Planning Dialogue System</b> Advisor: Dr. <i>Huan Sun</i> Jun 2021 – Present At the 1st <b>Amazon Alexa Prize TaskBot Challenge</b> , we propose a novel TaskBot, Taco, that aims to support multi-domain, multi-turn, and mixed-intent dialogues via multi-modal interaction. As <b>one of the team leads</b> , I actively designed and implemented various components in our system. Taco will be interacting with real users and being consistently improved in the competition.  <b>Towards Human-like Dialogue Systems for Mental Health Counseling</b> 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 <b>participated in various aspects of the project</b> , such as training a large-scale Transformer-XL model, developing a Chinese Poly-Encoder, and exploring non-autoregressive text generation and conversation summarization.  <b>Practical Cross-Domain Adaptation for Text-to-SQL Parsers</b> 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 am experimenting practical methods to fine-tune and adapt our semantic parser to new domains, comparing them with fair experimental settings, and evaluating their performance more comprehensively.	
TEACHING	<i>CSE 5525 Speech and Language Processing</i> , Undergraduate & Graduate Level Teaching Assistant, The Ohio State University (Autumn 2021) <i>CSE 2321 Foundations I: Discrete Structures</i> , Undergraduate Level Teaching Assistant, The Ohio State University (Autumn 2019; Spring, Autumn 2020)	
SERVICE	<b>Secretary</b> : CSE/CIS Peer Mentors (Aug 2020 – Jul 2021) <b>Mentor</b> : CSE/CIS Peer Mentors (Aug 2019 – Present) <b>Panelist</b> : 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)

**Email:** sun.397@osu.edu

**Website:** <http://web.cse.ohio-state.edu/~sun.397/>

### **Zhenzhong Lan, Ph.D.**

Assistant Professor, School of Engineering

Westlake University

**Email:** lanzhenzhong@westlake.edu.cn

**Website:** [https://en.westlake.edu.cn/academics/School\\_of\\_Engineering/Research/iisec/Our\\_Faculty/201912/t20191211\\_2541.shtml](https://en.westlake.edu.cn/academics/School_of_Engineering/Research/iisec/Our_Faculty/201912/t20191211_2541.shtml)