

## Ziru “Ron” Chen

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### EDUCATION

**The Ohio State University**, Columbus, OH

Expected: May 2022

**Bachelor of Science in Computer and Information Science**, Mathematics Minor

**GPA 4.0 / 4.0, Dean’s List**, College of Arts and Sciences (4 semesters)

### PROFESSIONAL EXPERIENCE

**Undergraduate Research Assistant**, The Ohio State University

Dec 2020 – Present

- Advisor: Dr. *Huan Sun*

- Research Topics: Text-to-SQL, NLP for Programming, Computer Assisted Programming

**Student Instructional Assistant**, The Ohio State University

Aug 2019 – Dec 2020

- *CSE 2321 Foundations I: Discrete Structures* (AU19; SP20; AU20)

- Answered students’ questions, graded weekly homework submissions, and wrote solutions

- Managed classes of 40 students and coordinated with students and professors

### RESEARCH EXPERIENCE

**Cross-Database Generalization for Text-to-SQL**

Dec 2020 – Present

- Advisor: Dr. *Huan Sun*

Recent advances in Text-to-SQL have achieved high accuracies on different benchmarks.

However, most of them exhibit a performance drop when applied across databases. We

comprehensively surveyed existing methods to mitigate this problem and compared them with

fair experimental settings and evaluation matrices.

**Counts and Measurements in Scientific Texts**

Sep – Dec 2020

- Course Project, CSE 5525 Speech and Language Processing

Quantities are critical for NLP models to understand scientific and medical texts. In this project,

we investigated the dataset released at SemEval 2021 Task 8. We conducted data analysis for

frequent patterns and implement a neural model with BERT for proposed NER tasks.

### QUALIFICATIONS & SKILLS

**Coursework:**

- *Speech and Language Processing*

- *Automata and Formal Languages*

- *Machine Learning (SP21)*

- *Data Structures and Algorithm*

- *Introduction to Cognitive Science (SP21)*

- *Introduction to Artificial Intelligence*

**Professional Skills:**

- Programming Languages: *Python, C, Java, MATLAB, Ruby, JavaScript*

- **ML / DL Toolkits:** *Numpy, Pytorch, Tensorflow, Pandas, Matplotlib, Sklearn, NLTK*

- Coursera Certifications: *Applied Data Science, Math for Machine Learning*

- Other Computer Science Skills: *Linux, Git, HTML and CSS, LaTeX, Ruby on Rails*

**Languages:**

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

### STUDENT ACTIVITIES

**Secretary**, CSE/CIS Peer Mentors

Aug 2019 – Present

- Manage an organization of 30 people and motivate new peer mentors

- Design and maintain organization website and mentor profiles

- Volunteer to assist transitions of first-semester students in person or online

**Active Member**, Chinese Students and Scholars Society

Sep 2018 – Dec 2020

- Attended meetings regularly to plan future events with other members

- Presented to introduce Computer Science at Chinese Freshmen Welcome Party

- Volunteered at events with more than 500 participants