

# Yijin “Cara” Zou

Cell: 832-212-3767 | cara.yijin.zou@utexas.edu

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## Education

### **Bachelor of Science, Computational Biology**

May 2021

University of Texas at Austin  
University Honors all semesters  
GPA: 4.00/4.00

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## Experience

### **Undergraduate TA for Biostatistics SDS328M** August 2018 – December 2019

- Assisted during lecture and lab sessions by answering questions on statistics and R code; Proctored exams
- Graded weekly homework and labs and provided detailed feedback to students for improvement.

### **Undergraduate Researcher and Mentor**

January 2019 – Present

- Virtual Drug Screening Research Stream
- Use of computational methods to identify potential protein inhibitors: PyMOL, Genetic Optimization for Ligand Docking (GOLD)
- Use of wet lab techniques: Midi-prep DNA extraction, agarose gel electrophoresis, DNA sequencing analysis, protein expression, sodium dodecyl sulfate–polyacrylamide (SDS-PAGE) gel electrophoresis, Ni-NTA affinity chromatography, ion exchange chromatography, enzyme assays, site directed mutagenesis, PCR, Cryopreservation (snap freezing), Differential Scanning Fluorimetry (DSF)
- Volunteer work over summer 2019 (80+ hours) developing protocol for autoinduction expression of gene on pNIC-Bsa4 plasmid and production of competent BL21 cells using CaCl<sub>2</sub>
- Specific Protein Target: D-alanine D-alanine Ligase (*Mycobacterium tuberculosis*)

### **Biochemistry (BCH369) PLUS Facilitator**

August 2019 – December 2019

- Worked in a team to lead study sessions and additional exam review sessions
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## Skills

Proficient in Microsoft Office (Word, PowerPoint, and Excel)  
Conversational Proficiency in Chinese (Mandarin)  
Working knowledge in R code (Packages: Base R, Tidyverse)  
Basic knowledge of Python

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## Awards

College of Natural Sciences 2019 Second Year Excellence Award

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## Accomplishments

Active Texas Pre-Dental Society Member  
Origami Circle Officer

August 2018- Present  
January 2018 – Present

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## Volunteer Experience

Micah 6 Food Pantry (100+ hours)  
Friends of the Library

September 2018- Present  
June 2018- Present