

EDUCATION

- **University of Michigan – College of Literature, Science, and the Arts** Ann Arbor, Michigan
Bachelor of Computer Science; Majored GPA – 4.0/4.0 Aug. 2021 - May. 2023
- **University of Michigan – College of Literature, Science, and the Arts** Ann Arbor, Michigan
Bachelor of Honor Math (Honor Program); GPA – 3.751/4.0 Aug. 2021 - May. 2023
- **Shanghai Jiao Tong University – UM-SJTU Joint Institute** Ann Arbor, Michigan
Bachelor of Electrical and Computer Engineering; GPA – 3.6/4.0 Aug. 2019 - May. 2023

RESEARCH EXPERIENCE

- **Deep Learning Foundation** CoE, UMich, Ann Arbor, Michigan
Undergraduate Researcher Mar. 2022 - Present
 - **General:** Fundamental Understanding of Deep Neural Network with Theoretical Analysis supported by SURE Program.
 - **Kernel Learning v.s. Deep Learning:** Analysis on Kernel Learning and the Relation between Deep Neural Network
- **Graph Neural Network Foundation** SI, UMich, Ann Arbor, Michigan
Undergraduate Researcher Feb. 2022 - Present
 - **General:** Theoretical analysis on generalization ability of non-i.i.d. semi-supervised node-level tasks.
 - **Expansion:** Following the line of work by Tengyu Ma with generalizations on graph-based neural network.
- **Fast Graph Algorithm** CoE, UMich, Ann Arbor, Michigan
Undergraduate Researcher Mar. 2022 - Present
 - **General:** Analysis on the size of the network failure detection set on different graph and various constraints.
 - **Data Structure:** Deep understanding on compact vertex cuts representation.
 - **Probabilistic Methods:** Analysis on randomized algorithm along with classical learning theory notions.

TEACHING EXPERIENCE

- **EECS572 Randomness and Computation** CoE, UMich, Ann Arbor, Michigan
Instructional Aide Aug. 2022 - Dec. 2022
 - **General:** Collaborated with the teaching staff as an instructional aide of a 100+ student course on the main CS track.
 - **Discussion Course:** Taught discussion sections to reinforce conceptual understanding and review course material.
 - **Office Hours:** Offered weekly office hours to ensure the student experience was as smooth as possible.
- **VV285 Honor Mathematics III** UM-SJTU JI, SJTU, Shanghai, China
Instructional Aide Mar. 2021 – Aug. 2021
 - **General:** Collaborated with the teaching staff as an instructional aide of a 150+ student course on the main ECE track.
 - **Discussion Course:** Taught discussion sections to reinforce conceptual understanding and review course material.
 - **Office Hours:** Offered weekly office hours to ensure the student experience was as smooth as possible.
 - **Competition:** Hold the 1st UM-SJTU JIntegration Bee competition
- **VV186 Honor Mathematics II** UM-SJTU JI, SJTU, Shanghai, China
Instructional Aide Sep. 2020 – Dec. 2020
 - **General:** Collaborated with the teaching staff as an instructional aide of a 200+ student course on the main ECE track.
 - **Discussion Course:** Taught discussion sections to reinforce conceptual understanding and review course material.
 - **Office Hours:** Offered weekly office hours to ensure the student experience was as smooth as possible.

SOFTWARE DEVELOPMENT EXPERIENCE

- **FoodAll** Virtual, Taiwan
Backend Developer Aug. 2020 – Mar. 2021
 - **General:** A food order platform in Taiwan, built with Golang and Gin, MongoDB, with RESTful API design.

HONORS AND AWARDS

- **Hong Kong, Macao and Taiwan Overseas Chinese Student Scholarship** SJTU, Shanghai, China
First Price (Ranked 2) among all HK, MC and TW students in SJTU Oct. 2021
- **Undergraduate Excellent Scholarship** SJTU, Shanghai, China
Third Price among all students in UM-SJTU JI Nov. 2020
- **Bao Gang Excellent Scholarship** SJTU, Shanghai, China
Ranked 3 among all Taiwan students in SJTU Jun. 2020
- **Hong Kong, Macao and Taiwan Overseas Chinese Student Scholarship** SJTU, Shanghai, China
Ranked 1 among all HK, MC and TW students in UM-SJTU JI Dec. 2019