

# Ryan Zhang

zhangryan24@gmail.com // (513) 580-6955 // rzhang44.github.io // Cincinnati, OH

## EDUCATION

**Sycamore High School**, Cincinnati, OH

May 2024

GPA: 4.51/4.0

Class Rank: Top 2%

SAT Score: 1570 - Math (800) / Reading & Writing (770)

## RELEVANT EXPERIENCE

**University of Cincinnati Research Lab** | *Student Researcher*

January 2023 – Present

- Researching the mechanism by which melanoma cells evade treatment agents and gain drug resistance.
- Contributed to various molecular and cellular biology experiments including cell culture, Western blot, genotyping by PCR, and microscopic imaging under Dr. Bruna da Silva Soley.
- Attend lab discussions and read relevant scientific literature.
- Co-authored a research presentation poster and presented at the UC Cancer Metastasis Research Symposium.

**UC Santa Cruz Science Internship Program** | *Student Researcher*

June – August 2023

- Researched artificial neural network pathways including forward pass, backpropagation, gradient descent, and the brain's decision making under Dr. Pooneh Safayenikoo and Professor Andrew Quinn.
- Implemented a neural network from scratch using JupyterLab & Python.
- Presented "Implementing Neural Network from Scratch to Using Python" at the Science Internship Program Symposium.

**University of Cincinnati Career Journeys Program** | *Selected Participant*

October 2022 – March 2023

- Explored clinical careers in medicine by observing experts in neuroscience, nursing, and cognitive therapy.
- Shadowed internal medicine, pediatric, and dental physicians weekly to gain insight into their day-to-day lives.

**Yale Young Global Scholars** | *Selected Participant ~ IST Session I*

June – July 2022

- Attended astrophysics, cell biology, disease detection, cognitive neuroscience, and environmental sustainability lectures.
- Wrote a review on the cognitive function of the brain and how human-robot interactions impact the social and cognitive growth of an infant.

**UC San Diego Neurobiology Mentorship** | *Student Researcher*

January – May 2022

- Researched memory and amnesia, including its causes, types, diagnosis, treatment, and prevention.
- Published first-author publication "Brain, Memory, and Amnesia", in the Journal of Student Research.

## LEADERSHIP

**Greater Cincinnati Chinese Cultural Exchange Association Youth Group** | *Founding Member*

June 2020 - Present

- Collaborated with a team of ten students to complete interviews and create a cultural recipe book (300+ copies sold).
- Raised over \$10,000 at the Asian Food Fest between 2021 and 2023.
- Solely responsible for hosting, updating, and maintaining the website (gcccea.org).
- Led 50 local high school students at the 9<sup>th</sup> annual Youth Leadership Workshop to share culture and spread diversity.

**Science Olympiad Club** | *President*

- Elected by other participants to promote membership growth and increase success at local tournaments.
- Increased club membership by 55 students in two years to become one of the largest clubs at Sycamore High School.
- Mentored over twenty students to top five placements at the Mason Invitational and Cincinnati Regional Tournament.

## COMMUNITY SERVICE

**Bethesda North & Jewish Hospital** | *Front Desk & Pathology Lab Volunteer*

February 2021 - Present

- Greet & check in visitors, access patient info, provide directions, responsible for patient transport & escort. (8hrs/wk)
- Sort, organize, and file tissue slides. Assist pathologists & lab technicians with cutting sections. (2hrs/wk)
- Aid nurses with patient discharge and cart restocking when necessary.

**BlueIvy Learning** | *Tutor*

June 2020 - Present

- Tutor 2-3 third and fourth grade students from underprivileged backgrounds weekly in different math topics. (2hrs/wk)
- Developed engaging and interactive lesson plans to simplify complex math topics to ensure improved comprehension.

## SKILLS

**Technical:** Javascript, Python, Microsoft Office, Wordpress

**Languages:** English & Mandarin (fluent)