

WONG, Sabrina Chun Yan

wongscy@umich.edu • (734)-596-8431 • 1760 Broadway St, Ann Arbor, MI 48105 • Permanent Address: Hong Kong

EDUCATION

University of Michigan

Bachelor of Science in Engineering in Chemical Engineering

GPA: 3.96/4.00

Ann Arbor, MI

May 2026

RESEARCH EXPERIENCE

Li+ Research Group (“Molten-salt Synthesis of Li-ion Battery Particles (NMC)”)

Ann Arbor, MI

Undergraduate Research Assistant

September 2022–Present

- Analyzed past literature to formulate a laboratory-suitable protocol for synthesizing single-crystal NMC
- Tested different synthesis conditions by running multiple trials, then evaluated whether synthesized NMC met certain specifications in chemistry, size, and morphology through microscopic and spectroscopic analysis
- Improved the diameter of synthesized single-crystal NMC from 2 μ m to 11-12 μ m
- Fabricated coin cells and assembled multi-electrode arrays to conduct galvanostatic cycling on the synthesized NMC as both coin cells and individual battery particles to evaluate their electrochemical performance
- Designed a sealing module using OnShape to improve galvanostatic cycling for single-particle electrochemistry

WORK EXPERIENCE

University of Michigan Science Learning Center

Ann Arbor, MI

Study Group Facilitator

August 2023–Present

- Facilitated weekly 2-hour organic chemistry study groups for undergraduate students to enhance their understanding of the material through collaboration and discussion
- Prepared for each session by reviewing material, developing an agenda, and organizing worksheets and other activities

University of Michigan Office of New Student Programs

Ann Arbor, MI

Orientation Support Team

June 2023–August 2023

- Prepared nametags, print materials, and promotional items for distribution to orientation attendees
- Staffed orientation events across 18 days for over 8,000 new university students which involved setting up tables, tents, chairs, signages, and other event supplies prior to the event and collecting them after the event

Women in Science and Engineering Residence Program (WISE RP)

Ann Arbor, MI

Recruitment Team

February 2023–April 2023

- Served as a representative for the WISE RP to promote the program on Campus Days to visitors
- Managed an information station during morning sessions and delivered a presentation during afternoon sessions to connect directly with prospective students and provide an overview of the program

LEADERSHIP

Michigan Fabrication

Ann Arbor, MI

Infrastructure Management Team Member

October 2022–Present

- Inventoried and managed the organization’s tools, equipment, and materials to monitor what was available and what was needed to be purchased or replenished
- Developed a budget plan with three other members and wrote funding applications to raise \$2,700 for the organization
- Planned a competition-style build event for 15 participants to provide an opportunity for the campus community to test and develop their design, engineering, and fabrication skills

SKILLS

Computer: Microsoft Office suite (Word, PowerPoint, Excel, Project), Google Workspace, MATLAB, Python, OnShape

Languages: English, Chinese

ACTIVITIES

Michigan College Boxing, Team Member

February 2023–Present

Mosher-Jordan Affinity Groups, International Students Group Leader

September 2022–April 2023

- Held weekly meetings for international students and other residence hall members to create a welcoming environment for participants to build connections among each other