

Sophie Chen

Cell: (718) 415-2579

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY

Class of 2028

Bachelor of Science in Biomedical Engineering

Relevant Courses: *Biomolecular Thermodynamics, Statics and Mechanics of Solids*

Columbia University, New York City, NY

September 2023 - April 2024

Relevant Courses: *Extreme Human Physiology, Cell and Molecular Biology of Medicine (Youth in Stem Scholar)*

TECHNICAL SKILLS

Programs: Python (Beginner), Excel, PowerPoint, Google Suite, FIJI - ImageJ (Beginner)

Languages: Chinese-Mandarin (Verbally Fluent); Fujianese (Intermediate); English (Fluent)

LEADERSHIP EXPERIENCE

Shimtah, Cornell University, *Treasurer*

May 2025 - present

- Managing \$10k+ in club finances through tracking funds and expenses while overseeing reimbursements
- Communicating financial discrepancies between funds with a faculty member in charge of redispersing funds from year prior

Leadership Initiatives, Virtual, *International Public Health Team Lead*

Aug 2022 - May 2023

- Guided weekly and monthly meetings with 5 members to delegate responsibilities and strategize plans to spread awareness
- Formulated a 16-page community workshop plan to be carried out regarding improper waste management in Bauchi, Nigeria
- Fundraised and raised \$100+ in a week to support our cause while educating donors on the importance of waste management

PROFESSIONAL EXPERIENCE

Cornell University, Ithaca, NY, *Undergraduate Research Assistant*

Nov 2024 - present

Jiang Lab

May 2025 - present

- Carried out various experiments, including but not limited to:
 - RNA/DNA gel electrophoresis protocols following RNA/DNA purification to ensure sequence accuracy
 - Flow Cytometry cell staining for mice spleen and lymph node following lipid nanoparticle injections to identify and quantify immune cells, particularly T and B cells, present in the sample
 - Encapsulation essays before mice injections to determine the volume of LNP needed for the desired concentration
 - E.coli bacterial culture in LB solution
 - In-vitro transcription, Zymo DNA plasmid isolation (mini & maxi), DNA linearization/restriction, ELISA
- Assisted PhD mentor on mice lipid nanoparticle injections, along with IVIS imaging (fluorescence and bioluminescence)
- Trained in animal handling for mice
- Assisted in mice dissection prior to imaging – retrieval of liver, spleen, heart, lung, and kidneys

Yadong Wang Lab

Nov 2024 - May 2025

- Performed decell protocols on goldfish and mice spinal cords and brains weekly over 10-hour periods
 - Introduction to the usage of lyophilizers and the Cyromill machine to dry out tissue into a powder-like consistency
 - Ensured protocols were carefully followed in sterile environments
- Carried out quantitative analysis of ECM protein, ChABC, using ImageJ, following immunofluorescence microscopy

Pokelava, Ithaca, NY, *Front Line Server (Part Time)*

Aug 2025 - present

- Handled customer orders, advised on recommendations, and modified orders for customer satisfaction
- Regularly cleaning and organizing the work area, refilling food when needed to ensure a steady workflow
- Assisted co-workers across sections during rush hours with 15+ orders while ensuring accuracy and efficiency

Optima Dental, Brooklyn, NY, *Assistant/Receptionist*

Aug 2022 - June 2024

- Organized 25+ daily patient scheduling and appointment coordination to ensure clinic workflow efficiency during weekends
- Assisted the dentist in various dental procedures, such as root canals, implants, fillings, and cleanings, 8-10 hours per shift
- Communicated dental procedures, services, and health insurance insight to 30+ patients, including in the dentist's absence
- Served as the liaison between the dentist and Fujianese-speaking patients twice a week before, during, and after treatment

Apex for Youth, NYC, NY, *Data Analysis Intern*

July 2023 - Aug 2023

- Evaluated participation surveys from participants within the 20+ programs offered by the organization over 6 weeks
- Analyzed data with ~100 inputs through statistical analysis software, SPSS, and identified trends within the analysis output
- Compiled data from various survey sources and analyzed them into a 30-slide presentation for the organization's board

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ACTIVITIES

CU Tonight, Cornell University, *VP of Communications*

May 2025 - present

- Coordinating external and internal communications with on-campus clubs to ensure transparency in funding decisions

Chinese Student Association, *Member*

Aug 2024 - present

OADI Research Scholars Program, *First-Year Scholar*

August 2024 - May 2025

- Participated in a year-long research development program emphasizing critical thinking, academic exploration, and faculty mentorship
 - Attended monthly workshops focused on the research process, graduate school readiness, and building scholarly community.
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AWARDS

IB Diploma Recipient, Gates Scholarship