

# Madison Liu

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Currently, a college student enrolled in the Undergraduate Biochemistry program at Purdue University. Seeking to leverage my strong analytical and communication skills, lab experience, and academic knowledge to gain an internship/co-op position. Self-motivated, responsible, and detailed-oriented individual eager to gain experience in the biotechnology and pharmaceutical industry, working alongside and assisting pharmaceutical researchers.

## Work Experience

### **Undergraduate Researcher – Cottrell Lab**

**Purdue University – West Lafayette, IN**

- Worked hands-on in the lab

Jan. 2024 – Present

### **Bioanalytical Summer Co-op**

**Sanofi – Cambridge, MA**

- Worked hands-on in the lab, testing antibodies and complex nanoparticle formulations using analytical techniques such as HPLC and various chemical and bioanalytical assays
- Analyzed and presented results in team meetings

May 2023 – Aug. 2023

### **Events Director, Officer of New Jersey Branch**

**Gratus-Cubed, Non-profit**

- Responsible for organizing events, fundraisers, and social outreach for the NJ branch of the non-profit organization

Sept. 2020 – July 2022

### **Part-Time Office Assistant**

**Madalex Consulting, Inc.**

- Responsible for office bookkeeping, including expense tracking and monthly expense reports

Nov. 2019 – May 2021

## Project Experience

### **Molecular Biology – Waksman Student Scholar Program**

**Rutgers University**

Sept. 2021 – June 2022

- Learned modern molecular genetics, including isolating and sequencing genes from a cDNA library
- Conducted a research project on the DNA sequence analysis of genes from the duckweed plant *Landoltia punctata*
- Novel sequence was identified and published - "Landoltia punctata clone 06MEL1.21 Rab GDI protein-like, mRNA sequence – NCBI ([ncbi.nlm.nih.gov](http://ncbi.nlm.nih.gov))"

## Professional Skills

- HPLC, mRNA purification, UV-Vis spectrophotometer (Nanodrop), parallel capillary electrophoresis (Fragment Analyzer), dot blot, gel electrophoresis, protein conjugation, record keeping in electronic lab notebook
- Excellent oral and written communication, strong organizational skills, strong attention to detail
- Language: English (Native), French (limited working proficiency), Korean (elementary proficiency)
- Microsoft Office applications

## Education

### **Purdue University**

**West Lafayette, IN**

Bachelor of Science, Major: Biochemistry

Aug. 2023 – May 2026

### **The Ohio State University**

**Columbus, OH**

Major: Biochemistry

Aug. 2022 – May 2023

## Activities and Interests

Purdue Korean American Student Association – Event Coordinator Intern (Jan. 2024 – Present), Member since Aug. 2023

Purdue Sailing Club – Member (Aug. 2023 – Present)

Purdue Biochemistry Club – Member (Aug. 2023 – Present)

Sports: Tennis, Sailing, Scuba Diving (Advanced Open Water Certification)