

# Cindy Amaya Lopez

Atlanta, GA || 678.964.1633

Email: [camayal@emory.edu](mailto:camayal@emory.edu) || LinkedIn: <https://www.linkedin.com/in/cindy-amaya-lopez/> || Website: <https://cindyamayalopez.github.io/>

## EDUCATION

### Emory University || Atlanta, GA

May 2022

*Major:* Chemistry BA || *Minor:* Music || Cumulative GPA: 3.68/4.0

*Relevant Coursework:* Music Business, Analytical Tools & Techniques

## WORK EXPERIENCE

### Emory Chemistry Undergraduate Research || (Atlanta, GA)

January 2020 - Present

*Undergraduate Researcher – Katherine M. Davis Lab*

- Assisted in the development and maintenance of a new biophysical chemistry research laboratory to develop and apply time-resolved physical methods to elucidate the mechanisms of medically important metal-containing enzymes
- Utilizes Linux for computational calculations to obtain an optimized VioC State III, L-Arg and Peroxysuccinate intermediate and to accurately predict UV-Vis spectra of the metalloenzyme VioC and monitor transitions.
- Development of microspectrometer as new method to investigating VioC intermediate states, in addition to using spectroscopic and crystallographic experiments

### Emory Undergraduate Research Experience (SURE) || (Atlanta, GA)

Summer 2021

*Research Fellow – Katherine M. Davis Lab*

- Collaborated with Seyedsayamdost Lab from Princeton to crystallize the inhibitors dehydrocostus lactone and  $\beta$ -lapachone bound to the enzyme Guanosine 5'-triphosphate (GTP) cyclohydrolase-IB (GCYH-IB)'s active site
- Increased crystallization rate by 100% through the enzyme modification technique, Lysine methylation
- Prepared protein crystals for X-ray Crystallography at Sector 23 of the Advanced Photon Source at Argonne National Labs

### Chemistry Undergraduate Lab || (Atlanta, GA)

August 2019 - Present

*Teaching Assistant for General Chemistry and Macromolecule Lab*

- Teaches 30+ undergraduate students per semester General and Organic Chemistry techniques in an online and in-person setting
- Mentors students in creating and maintain peer networking opportunities within a lab setting

## LEADERSHIP/ COMMUNITY INVOLVEMENT

### Emory Science Olympiad || President & Founding Member (Previously Treasurer)

August 2018 - Present

- Coordinated with Emory undergraduates, graduates, faculty, and surrounding community to create a high quality competition for over 500 high school students per year
- Organized the Georgia High School State competition that decides the Georgia representative for the National competition
- Manages a \$1200 budget to coordinate the cost of a academic competition with 23 events and meals for approximately 100 volunteers
- Promotes the STEM education to low-income high schools around Decatur, GA

### 1915 Scholars || Peer Mentor

August 2018 - Present

- Cultivates mentor-mentee relationships to help first-generation students succeed during their first-year at Emory University
- Promotes skill sets workshops and events to encourage the professional growth of first-generation students
- Builds a community that encourages the networking of professionals and students that identify as first-generation

## PROJECTS

### She'Chinah Marketing Project

Spring 2021

- Evaluated developing artist's, She'Chinah, marketing strategies and strategized improvements to successfully promote She'Chinah
- Prepared a 6-month marketing content timeline that integrated the top 3 social media platforms as promotional methods for developing artist She'Chinah

### Spotify Marketing Project

Spring 2021

- Assessed current marketing tools provided for developing artists to use for their own brand marketing
- Mapped out the most efficient and effective marketing tools for developing artist to use to successfully market themselves

## TECHINICAL SKILLS

**Tools:** Linux, Avogadro, PyMol, GROMACS, CHIMERA, Microsoft Office

**Languages:** HTML (Beginner), CSS (Beginner)

## ADDITIONAL INFORMATION

*Certifications:* NYU Music Business (In progress)

*Languages:* English (Native), Spanish (Native), German (Intermediate), Korean (Early Intermediate)

*Affiliation:* Georgia Figure Skating Club, Delta Phi Lambda