

# Melisa R. Zhang

mz2955@columbia.edu | +1 (706) 247 2737 | New York, NY | [www.linkedin.com/in/melisarz](http://www.linkedin.com/in/melisarz)

## EDUCATION

### Columbia University Fu Foundation School of Engineering and Applied Sciences

Expected May 2026

B.S. in Computer Science

New York, NY

- Named Scholar: Recipient of the Madam Shiang-chin Liu Scholarship at Columbia University
- Relevant Coursework: Calculus I, Physics 1401, General Chemistry, **Art of Engineering, Data Structures in Java**, Calculus II, Physics 1402, University Writing in American Studies, **Intro to Computing for Engineers and Applied Scientists, Introduction to Databases**

### North Oconee High School

May 2022

Athens, GA

- GPA: 4.0/4.0
- Relevant Coursework: AP United States Government & Politics, AP Human Geography, AP World History: Modern, AP Physics C: Mechanics, AP Calculus AB, AP Calculus BC, AP United States History, AP Statistics, AP Seminar, AP English & Language Composition, AP Chemistry, AP Macroeconomics, AP Biology, AP Physics C: Electricity & Magnetism, AP Literature & Composition, **AP Computer Science A**, AP Research, **Foundations of Engineering, Engineering Concepts, Engineering Applications**
- Top 5%

## WORK EXPERIENCE

### Cortical Architecture Imaging and Discovery Laboratory, Department of Computer Science, University of Georgia

May 2019 – August 2019

- Interned under the supervision of Distinguished Research Professor, Dr. Tianming Lu
- Read and analyzed research reports
- Used **Python** to code simulations

### Xie Research Lab, Bio-Imaging Research Center, Department of Chemistry, University of Georgia

May 2020 – August 2021

- Synthesized LDL nanoparticles for 7-DHC chemicals in cancer research
- Analyzed cancer cell samples using Transmission Electron Microscopy and Atomic Force Microscopy

### Young Dawgs Research Program, Intelligent Power Electronics & Electric Machine Laboratory, Department of Engineering, University of Georgia

January 2020 – May 2022

- Conducted literature reviews
- Simulated Single Phase, Three Phase, Half Bridge, and SPWM inverters using **Matlab**
- Ran experiments using an oscillator and circuit boards
- Presented to lab and research program board

## ACTIVITIES AND SOCIETIES

### Women in Computer Science @ Columbia University

October 2022 – Present

Event Coordinator

- Help plan and coordinate university CS events like Divhacks

### Jumpstarting Aspiring Developers & Entrepreneurs Internship

November 2022 – January 2023

Participant

- Selected as 1 of top 20 undergrads to partake in an immersion program with leading tech companies
- Had discussions with executives, venture capital investors, product managers, and software engineers
- Learned **Web Development** through **HTML, CSS, JavaScript**, and **GitHub**
- Launched my own website

### Girls in Tech NYC Hackathon 2022

October 2022

Participant

- Built website prototype that connects formerly incarcerated persons to reliable housing
- Attended workshops on **UX Engineering, Database Engineering, and PM**

### Technology Student Association – Engineering Club

August 2018 – May 2022

President and Chapter Ambassador

- Planned and led club meetings and events
- Planned and implemented intraschool fundraisers with neighboring schools in association with Synovus Bank
- Competed in regional and state competitions: 4<sup>th</sup> in State Promotional Design, 10<sup>th</sup> in State Essays in Tech

### Robotics Club

August 2018 – May 2022

Team Captain

- Programmed, built, and managed the creation of a robot for competition
- Delegated tasks and facilitated communication and cooperation between team members
- Served as public head of team for competitions and meets

### Georgia Secretary of State Student Ambassadors Program

August 2021 – May 2022

Board Member

- Part of a nine-member team to encourage voter registration amongst high school students via political events
- Planned events for competition

## ACCOMPLISHMENTS

**PATENT (provisional):** Melisa R. Zhang, “Disposable and Reusable Disinfectant-impregnated Gloves to Combat COVID-19”, US 63/149,484

**Recipient of the Madam Shiang-chin Liu Scholarship:** Established by Dr. Mingdong Zhang and Dr. Ling Huang P’21 to provide scholarship support to undergraduate students enrolled at SEAS.

## SKILLS

- Languages/Applications: **Java, Python, Matlab, Javascript, CSS, Arduino.IDE, Vue/Nuxt, Node.js**
- Other: Mandarin, Spanish, MS Excel and PPT, Simulink
- Highly organized, detail oriented, efficient
- Proactive, great work ethic, motivated
- Teamwork, leadership, communication