Melisa R. Zhang

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EDUCATION

Columbia University Fu Foundation School of Engineering and Applied Sciences   **Expected May 2026**
B.S. in Computer Science   New York, NY
- 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**
- GPA: 4.0/4.0   Athens, GA
- 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: 4th in State Promotional Design, 10th 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: Establish by Dr. Mingdong Zhang and Dr. Ling Huang P'21 to provide scholarship support to undergraduate students enrolled at SEAS.

SKILLS

- Languages: **Java, Python, Matlab, Javascript, CSS, HTML**
- Other: Mandarin, Spanish, MS Excel and PPT, Simulink
- Highly organized, detail oriented, efficient
- Proactive, great work ethic, motivated
- Teamwork, leadership, communication