

Marianne M. Moise

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY

Expected Graduation May 2029

Bachelor of Science, Biomedical Engineering, Dyson Business Minor for Engineers

STEM EXPERIENCE

Science Fair, Various Locations, PA *Competitor*

Oct 2021-June 2024

- Applied data science methods to investigate medical research questions and present findings.
- 11th Grade: "Side Effects of Modern Anti-Obesity Drugs: Do GLP-1s increase or decrease the risk of comorbidities?"
- 10th Grade: "Impact of Covid -19 on other Diseases: Does getting infected with COVID increase the probability of developing other diseases and conditions?"
- 9th Grade: "The Effectiveness of Fluvoxamine on COVID-19"

Carnegie Mellon Computational Biology Pre-College Program, Pittsburg, PA, *Student*

June-July 2024

- Took selective 3-week intensive class in Computational Biology by CMU professors
- Gained proficiency in Golang and computational biology techniques such as alignment, assembly and trees.
- Applied laboratory techniques to extract and analyze DNA and RNA from bacteria.
- Conducted research on horizontal gene transfer for final presentation, then presented to 100+ students and professors. Voted best project out of 24.

Coriell Institute for Medical Research, Camden, NJ, *Intern*

July-Aug 2024

- 6-week internship on producing cells and DNA to sell to research labs.
- Learned and applied basic laboratory safety and techniques. Prepared and successfully grew blood cell and stem cell cultures. Extracted and quality controlled DNA samples.
- Helped manage the biobanking logistics and packaged DNA and cell samples for shipment to research universities and centers in the US and abroad.

LEADERSHIP EXPERIENCE

Science Fair & STEM Activities Club, Council Rock High School North, *President*

Nov 2024-June 2025

- Elected by peers to lead a science-based club of 40+ members. Educate students on the Science Fair curriculum and assist them with project selection, planning, and implementation.
- Visit local middle school bi-monthly Sept.-Jan. to guide younger students through their Science Fair Projects.

Spit & Bridge Club, Council Rock High School North, *Founder & President*

Oct 2023-June 2025

- Founded "Spit" (card game) for camaraderie and recreation with over 100 members
- Plan meeting dates, bring in snacks, and educate new members on the rules of the game. Host and moderate Spit competitions. The motto is "Bring cards or a friend; if you can't, we'll provide either."

Princeton Learning Experience Bucks County Branch, Cornell University, *General Manager*

Jan 2023-Nov 2024

- Selected by the previous Board to run the county branch of a free national tutoring organization for elementary school students. Served as HR Manager in 11th grade and promoted to General Manager of the entire branch in 12th grade.
- Interview, assess, and train high school students to teach math, reading, and Python. Oversee new tutors.
- Prepare weekly curricula and assignments. Communicate regularly with parents. Organize and manage student rosters and class designations. Manage progress for individual students.

CAMPUS INVOLVEMENT

Computational Biology Club, Cornell University, *Member*

Oct 2025-Present

Women's Club Wrestling, Cornell University, *Member*

Sept 2025-Present

Cornell Eastern Music Ensemble, Cornell University, *Member*

Sept 2025-Present

Cornell Republicans/Network of Enlightened Women, Cornell University, *Member*

Sept 2025-Present

The Cornell Review, Cornell University, *Member*

Sept 2025-Present

SPECIALIZED SKILLS

Programs: Java, Python, GoLang

Languages: French (Fluent)

Interests: Violin, Guzheng (Chinese Zither), Mixed Martial Arts, Horseback Riding