Willow Alber-Martin

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I am a driven undergraduate with extensive experience in instruction and communication. I am proficient at managerial tasks and event planning, with additional skills in lab settings and data science.

Education

University of Colorado, Boulder, Molecular and Cellular Biology — **Boulder, CO** — **6/2021 - Present**

Bachelor of Arts, May 2022

- GPA: 3.4/4.00

New York University, Shanghai, Biology — **Shanghai, China** — **8/2018 - 1/2020**

Bachelor of Science, May 2022

- GPA: 3.2/4.00

Experience

University of Colorado, Boulder - Learning Assistant — **Boulder, CO** — **1/2021 - Present**

- I teach coseminars, hold office hours, and respond to student concerns in order to facilitate communication between the students and professors in Genetics and Introduction to Cellular Biology.

Mentor Collective - Mentor — **Boulder, CO** — **8/2021 - Present**

- I engage one-on-one with a group of assigned freshmen in order to help them make the transition to college. I help these freshmen find and use school resources, and I provide feedback to the school so that they can improve new students' experience.

Heart 2 Heart - Child Supervisor — **Shanghai, China** — **8/2019 - 12/2019**

- I ran fundraisers for families with children in need of heart surgery, and spent time with pre and post-operational children while they were in the hospital.

Restaurateur Club - President — **Shanghai, China** — **1/2021 - 5/2021**

- I reached out to restaurant owners in Shanghai to plan visits to their businesses for the student body chapter.

YouthRoots - Intern — **Denver, CO** — **8/2016 - 12/2017**

- I created teaching modules for future classes and organized the annual end of year banquet.

Skills:

- Conversational fluency in Mandarin
- Semi-fluent in Korean
- LaTeX, HTML/CSS
- Python for data science/scripting
- BLS Certified

Lab Procedures/Assays:

- SDS-PAGE
- plaque assays
- PCR
- Restriction Digests
- Enrichment and isolation

Select Projects

- Developed a restriction enzyme simulator using python and the Saccharomyces Genome Database for identifying cheap, off-the-shelf restriction enzymes that can be used for DNA fingerprinting.
- Built a low cost incubator for growing cultures.
- Compared DIY gelatin based cellular growth medium to lab grade agar.