

Resume Example

Katerina Williamson

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EDUCATION

Columbia University, Fu Foundation School of Engineering and Applied Science

New York, NY

Bachelor of Science: Biomedical Engineering, GPA 3.9

May 2024

Relevant Coursework: Biomedical Engineering Lab II, Solid Biomechanics

Boston University

Boston, MA

Bachelor of Science: Biochemistry, Dean's List all semesters

Sep. 2019 - May 2022

RESEARCH EXPERIENCE

Undergraduate Research Assistant

New York, NY

Biocomplexity Lab, Columbia University

Nov. 2022 – Present

- Collaborated with three colleagues to conduct research on human T-cell activation to improve cellular immunotherapies.
- Reported weekly on updates and findings to the principal investigator. Contributed to a research paper as third author, to be published Fall 2024.
- Used ImageJ and statistical analysis to examine the T cell proliferation profile in order to optimize the physical growth conditions for T cell expansion and improve the success rate of immunotherapies.

Undergraduate Research Assistant

Boston, MA

Khalil Lab, Boston University

Sept. – Aug. 2022

- Investigated the role of viral proteins on the shape of influenza A virion to obtain and contribute data for an ongoing project.
- Engineered a fluorescent single-chain antibody fragment and built a cell line to knock down M2 viral protein expression.
- Handled many logistical needs of the lab including dishwashing, autoclaving, preparing essential buffers, cell line maintenance and purifying antibodies, all of which ensured efficiency and facilitated cooperation in the lab.
- Mentored colleagues and trained them on performing lab experiments such as midiprep, FPLC, and lentivirus transfection.
- Updated research progress in lab meetings and created a scientific poster and presented it to 300+ students, faculty and visitors.

WORK AND LEADERSHIP EXPERIENCE

CSPA Convention Assistant

New York, NY

Columbia Scholastic Press Association, Columbia University

Mar. 2023

- Welcomed 1500+ delegates (high school students and teachers) to the convention in collaboration with CSPA Convention officials and staff; conducted outreach through flyering and emailing; directed guests in locating conference rooms; organized and distributed classroom materials and handled logistical needs like checking in participants and coordinating audio-visual equipment for speakers.

Columbia University: Office of Residential Programs

New York, NY

Resident Adviser

Sep. 2022 – May 2023

- Promote intellectual and interpersonal growth for undergraduate residents via community development, peer mentorship, and event organization, including educational and community outreach programs
- Resolve time-sensitive resident issues by liaising with university administrators and offices, both when on- and off-duty

Sabor Latin Dance Troupe, Columbia University

New York, NY

Vice President and Dance Performer

Aug. 2021 – Present

- Advise president on performance proposals, community initiatives, and future direction for team of 15
- Ensure proper budget spending with the help of the treasurer and partake in financial decisions
- Negotiate with university administration on space and logistics for performance events and rehearsals
- Organize and perform in annual university-wide show; raised \$2,333 in revenue for a city-wide service project

SKILLS AND INTERESTS

Computer: Microsoft Excel, PowerPoint, Word; STATA, Python, Java, MATLAB

Language: Fluent in Spanish

Interests: Latin American Literature, Partner Dancing, Premier League Soccer