

# ZOE WALKER

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## EDUCATION

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**California State Polytechnic University, Pomona** January 2023 – Present  
Master of Science in Biological Sciences (GPA 4.0)

**California State Polytechnic University, Pomona** September 2017 – May 2022  
Bachelor of Science in Biotechnology with Minor in Chemistry (GPA 3.99, *summa cum laude*)

**Relevant Coursework:** Medical Microbiology, General Epidemiology, Hematology, Organic Chemistry, Biochemistry, Biostatistics, Molecular Biology, Quantitative Analysis

## RESEARCH EXPERIENCE

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**MS Thesis** determining the effects of maternal exposure to  $\Delta 9$ -THC on the structure and function of the mouse placenta. May 2022 – Present

- Collaborated with faculty, staff, students, and volunteers to facilitate data collection.
- Measured physiological variables in mice.

**Honors College Capstone Project** examining the effectiveness of lifestyle changes to prevent type II diabetes in African American women. July 2021 – May 2022

- Communicated with community members, faculty, public health workers, medical professionals, and small business owners to facilitate data collection.
- Adapted research methods for implementation online due to the Coronavirus pandemic.
- Formulated and tested a hypothesis, measured physiological variables, analyzed data, and created a presentation to disseminate results and findings to the public.

## TEACHING EXPERIENCE

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**California State Polytechnic University, Pomona**  
*Teaching Assistant, Life Science Laboratory* Fall 2023

- Taught introductory level biology and guided students through active learning activities.
- Graded assignments and provided feedback in a timely manner.
- Created accessible documents for diverse learners.
- Implemented standard operating procedures and safety regulations.
- Responsible for safe disposal of chemical, biological, and hazardous waste.

## WORK EXPERIENCE

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**Administrative Intern, Nova R&D** January 2019 - Present

- Executed local administrative functions for a satellite office and acted as a liaison to the main corporate office for a research and development company that specializes in detection of radiation in the medical field (MBI, CT scans, BMD, X-Ray, SPECT Imaging).
- Supported the overseas accounting department with managing invoices and statements.
- Communicated with vendors to ensure that accounts were up to date and settled in a timely manner in order to enable smooth day-to-day business operations.

**Specimen Accessioner**, Medical Diagnostic Laboratory September 2022 – December 2022

- Received and processed biological specimens using safe specimen handling procedures.
- Ordered lab tests by entering information from Physician requisitions into the CIS system.
- Labelled, prepared, and forwarded samples to the appropriate department for testing and analysis.
- Entered data in accordance with laboratory protocol and HIPAA regulations.

**Instructor**, Mathnasium March 2018 – April 2019

- Instructed children aged K-12 in mathematics curriculum.
- Implemented personalized instruction for diverse students.
- Developed multi-tasking and interpersonal skills by working with several students simultaneously and balancing the needs of all students.

**Host**, Applebee's October 2017 – November 2020

- Resolved customer complaints to ensure customer satisfaction.
- Implemented COVID-19 sanitation, masking, and social distancing policies.
- Trained new hires to follow all standard operating procedures as a member of the host team.

## RESEARCH PRESENTATIONS

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**Walker, Z.** Jellyman JK. Diabetes Prevention Through Lifestyle Changes in African American Women. Cal Poly Pomona Student Research and Scholarly Activities Conference. March 4th, 2022. Poster.

**Walker, Z.** Jellyman JK. Diabetes Prevention Through Lifestyle Changes in African American Women. Western Regional Honors Council conference. University of New Mexico. April 8-10, 2022. Poster.

**Walker, Z.** Jellyman JK. Diabetes Prevention Through Lifestyle Changes in African American Women. Cal Poly Pomona College of Science Annual Research Symposium. April 29th, 2022. Poster.

Banzon, S, Reyes, A, Cooray, O, **Walker Z** and Jellyman JK. The effects of maternal exposure to  $\Delta^9$ -THC during mid-gestation on fetal growth. Cal Poly Pomona Student Research and Scholarly Activities Conference. March 4th, 2023. Poster.

Banzon, S, Reyes, A, Cooray, O, **Walker Z** and Jellyman JK. The effects of maternal exposure to  $\Delta^9$ -THC during mid-gestation on fetal growth. Cal Poly Pomona College of Science 16<sup>th</sup> Annual Research Symposium. April 28<sup>th</sup>, 2023. Poster.

## PROFESSIONAL TRAINING AND WORKSHOPS

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### **Molecular Biology Workshop**

June 2023

Intensive two-week, hands-on training in molecular biology techniques.

- Skills: DNA extraction, PCR purification, DNA sequencing, Bioinformatics analysis, Tissue culture, Recombinant Protein Expression, SDS-PAGE, Western Blot, ELISA, Microarray, Affinity Chromatography.

### **Collaborative Institutional Training Initiative (CITI) Online training Certifications**

- Basic Responsible Conduct of Research June 2022
- For the Protocol Personnel June 2022
- When working with Rats and Mice June 2022
- Research Involving Human Subjects June 2021

### **Mentor Collective Bronco Navigators Training**

July 2021

### **American Heart Association Basic Life Support Certification**

October 2019

## CALIFORNIA POLYTECHNIC STATE UNIVERSITY, POMONA INVOLVEMENT

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### **Peer Mentor, Bronco Navigators**

July 2021 – May 2022

- Provided personalized support to three first-generation college students, helping them to navigate college life and coursework.
- Offered guidance on study strategies, time management, and communication skills.

### **Treasurer, Biotechnology Club**

August 2021 – May 2022

- Managed finances through expense tracking, account auditing, and creating a budget.
- Collaborated with the executive board to plan and execute biotechnology-related workshops.

### **Member, Kellogg Honors College**

September 2017 – May 2022

## COMMUNITY SERVICE

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### **Cal Poly Pomona's Center for Community Engagement**

September 2021

*Volunteer Project Leader:* Civic engagement event in honor of 9/11 Day of Remembrance

- Coordinated the check-in process and oversaw general volunteers.
- Demonstrated seed ball creation to participants.
- Taught restoration ecology.

### **INSAN Foundation**

February 2019

- Prepared and served hot meals to underserved members of the Pomona community.
- Lead and managed volunteers.

## RECOGNITIONS

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**President's List** at California State Polytechnic University, Pomona

**Dean's List** (6 terms) at California State Polytechnic University, Pomona

**Applebee's Neighborhood Expert**

- Promoted due to mastery of the host position and demonstrated communication and leadership skills.
- Trained, mentored, and led the host crew at the San Dimas Applebee's location.