

Zoe Walker

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EDUCATION

Master of Science in Biological Sciences (GPA 4.0)

California State Polytechnic University, Pomona

January 2023 – Present

Bachelor of Science in Biotechnology with Minor in Chemistry (GPA 3.99, *summa cum laude*)

California State Polytechnic University, Pomona

May 2022

RESEARCH EXPERIENCE

MS Thesis determining the effects of maternal exposure to Δ^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

Teaching Assistant, California State Polytechnic University, Pomona

BIO 1110L Life Science Laboratory

Fall 2023

BIO 1150L Basic Biology Laboratory

Spring 2024

- 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

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.
- 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 and Neighborhood Expert, 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.
- Led the host team at the San Dimas Applebee's location as a Neighborhood Expert.

RESEARCH PRESENTATIONS

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 8-10th, 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 Δ^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 Δ^9 -THC during mid-gestation on fetal growth. Cal Poly Pomona College of Science 16th Annual Research Symposium. April 28th, 2023. Poster.

Banzon S, **Walker Z**, Jellyman JK. The Effects of Maternal Exposure to Δ 9-THC During the Period of Rapid Placental Growth on Fetal Growth in Swiss Webster Mice. Cal Poly Pomona Student Research, Scholarly, and Creative Activities (RSCA) Conference. March 2nd, 2024. Poster Presentation.

Banzon S, **Walker Z**, Jellyman JK. The Effects of Maternal Exposure to Δ 9-THC During the Period of Rapid Placental Growth on Fetal Growth in Swiss Webster Mice. 71st Annual Meeting of the Society for Reproductive Investigation (SRI). March 16th, 2024. Poster Presentation.

Banzon S, **Walker Z**, Jellyman JK. The Effects of Maternal Exposure to Δ 9-THC During the Period of Rapid Placental Growth on Fetal Growth in Swiss Webster Mice. Cal Poly Pomona College of Science 16th Annual Research Symposium. April 26th, 2024. Poster Presentation.

PUBLICATIONS

Banzon S, **Walker Z**, Jellyman J. The Effects of Maternal Exposure to Δ 9-THC during the Period of Rapid Placental Growth on Fetal Growth in Swiss Webster Mice. *Reprod. Sci.* 31 (Suppl 1), 1–395 (2024). <https://doi.org/10.1007/s43032-024-01501-2>.

PROFESSIONAL TRAINING AND WORKSHOPS

Motivating Learners Course (15 weeks) Spring 2024

- Hands-on professional development course focused on promoting key learning mindsets—Growth Mindset, Purpose & Relevance, and Sense of Belonging—in students with a focus on supporting those from traditionally marginalized and minoritized backgrounds and leveraging these mindsets in a way that promotes equity, diversity, and inclusion.

Mentor Collective Diversity, Equity, and Inclusion Training February 2024

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) Training (IACUC)

- 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

Bronco LEAD Leadership Development Certification (1.0, 2.0, 3.0) May 2022

Cal Poly Pomona Ally Training November 2021

Mentor Collective Bronco Navigators Training July 2021

American Heart Association Basic Life Support Certification October 2019

CALIFORNIA POLYTECHNIC STATE UNIVERSITY, POMONA INVOLVEMENT

Peer Mentor, CPP Grad Bronco Buddies program January 2024 - Present

- Provide one-on-one support to three first-year graduate students, helping them to successfully transition into graduate studies.

Member, Biology Graduate Student Association

Member, Bronco LEAD (Leadership, Education, Advocacy, & Development)

Fall 2021 – Spring 2022

- Successfully completed all three levels of a leadership program that focuses on developing student leaders through participation in workshops, ally trainings, and involvement on campus. Culminated in presentation about leadership journey through Bronco LEAD.

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

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.
- Led and managed volunteers.

SKILLS

Zotero Reference Management Software

Polymerase Chain Reaction (PCR)

Enzyme-linked immunoassay (ELISA)

Western Blot

Intermediate R Programming

RECOGNITIONS AND AWARDS

Alumni Association Endowed Scholars (Susan Dove Memorial Scholarship) Award, California

State Polytechnic University, Pomona

- Awarded to a student who exemplifies leadership and community service.

Karen Dundas-Sorci Scholarship, California State Polytechnic University, Pomona

- Awarded for academic excellence to a student employed >20 hours per week.

President's List at California State Polytechnic University, Pomona

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