

# Kassandra Cain

Riverside, CA | 951-827-3631 | yourname@ucr.edu

---

## EDUCATION

University of California, Riverside (UCR)

**Ph.D. in Biomedical Sciences**

**September 2024**

Specializations: Physiology / Immunology

University of California, Irvine (UCI)

**Bachelor of Science in Biological Sciences**

**June 2018**

- **Minor in Medical Anthropology**
- 

## LAB & TECHNICAL SKILLS

Technical: Flow Cytometry, *In Vitro* Cell Culture, RNA and DNA isolation, ELISA, immunofluorescence staining, PCR, Western Blot, mice dissection, multiplex assays, RNAseq, nanoString, chemoreflex testing

Analysis: RStudio, GraphPad PRISM, FlowJo, MS Office Suite

---

## RESEARCH EXPERIENCE

**Graduate Student Researcher**

September 2019 – September 2024

UCR, Riverside, CA

- Designed experiments to test inflammatory responses of peripheral blood mononuclear cells with the study goals to identify how high-altitude exposure or COVID infection alters the inflammatory profile
- Led collaborations with interdisciplinary labs to conduct experiments in order to analyze changes in immune and vascular parameters via flow cytometry and multiplex assays
- Communicated with IRB to establish human subjects' projects for clinical research
- Led and managed multiple projects concurrently for self and PI
- Served as technical consultants for lab's physiological tests and immunological applications
- Established several standard operating procedures (SOPs) for future lab personnel
- Presented studies in multiple conferences and published work in distinguished journals

**Laboratory Project Director**

June 2020 – September 2024

UCR, Riverside, CA

- Trained incoming research personnel (undergraduates, volunteers, and graduate students) in laboratory techniques necessary for their projects
- Mentored students and assisted with developing experimental designs, data collection, and data analysis
- Advised students in interpreting finalized results and assisted with developing poster and oral presentations
- Served as the liaison to EH&S for biohazard management, and communicated with IRB to establish human subjects research projects

**Technical Graduate Student Researcher (Flow Cytometry)**

July 2022 – July 2024

UCR, Riverside, CA

- Trained new users for use of the Quanteon Novocyte and introduction to flow cytometry design
- Designed multi-color flow cytometry experiments and developed new experimental designs for a variety of research projects
- Provided technical and troubleshooting support for experimental applications and data analysis
- Performed regular maintenance for instrument performance and maintained equipment records for machinery