

# BRANDON BIOLOGIST

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## SUMMARY OF SKILLS & QUALIFICATIONS

- **Laboratory:** SDS-PAGE, PCR/Cloning, ELISA, Electrophoresis, Spectrophotometry, Amino acid analysis DNA/Extraction/Quantification, GC-MS, Computer Data Analysis
- **Computer:** Microsoft Word and Excel (data visualization, pivot tables, simple linear regression), R (multiple linear regression, multi-correlation, ANOVA, and t-test), Google Applications, Zoom
- Strong background in research and laboratory settings, leadership, and effective communication
- Ability to work in diverse teams as well as independently

## EDUCATION

California State University, Fresno (Fresno State)

**Bachelor of Science - Biology**, GPA 3.59

Expected May 20xx

**Minor – Chemistry**

Academic Honors: Dean's List - 3.5+ GPA (4 semesters)

*Related Coursework: Organic Chemistry, Microbiology, Molecular & Cellular Biology, Hematology, and Immunology*

## RESEARCH & LAB EXPERIENCE

**Laboratory Volunteer**, Adventist Health Hospital, Hanford, CA

Mar 20xx – Jan 20xx

- Completed 100+ hours of laboratory shadowing and basic lab assistant duties
- Loaded 100+ patient blood samples for CBC and chemistry testing and 100+ patient urine samples for urinalysis
- Under supervision, assisted in laboratory testing (HCG, Mono, RSV, Amnisure, FFN, HIV, and Trep Screen) and interpreted results
- Familiar with laboratory equipment (Beckman Coulter DxH 600 & DxC 600i, HemaTechnologies ESR STAT PLUS Analyzer, Siemens CA 1500, Iris Chemistry Analyzer, and MedTox)
- Supported in quality control and calibration for Beckman Coulter DxH 600 and Siemens CA 1500

**Undergraduate Research Assistant**, Van Laar Lab, Department of Biology, Fresno State

Dec 20xx – May 20xx

- Investigated vector-borne pathogens found in ticks (specifically of Rickettsia and Borrelia genera)
- Trained by primary investigator to utilize various assays (PCR, RFLP, gene cloning, DNA extraction)
- Collected, processed, and preserved 100+ molecular samples, and insect specimens (ticks)
- Analyzed data using R and communicated findings through reports, posters, and manuscripts
- Assisted in the publishing of peer-reviewed manuscript "Rickettsia spp. in Five Tick Species Collected in Central California"

**Student Research Project**, "Soil Invertebrate Biodiversity," BOND Program

College of Science and Mathematics (CSM), Fresno State

Jan 20xx – Apr 20xx

- Collaborated with 4 other students to analyze the biodiversity of soil
- Developed a research question and collected data from the Fresno State Farm soil for biodiversity
- Analyzed collected data via Excel (Simple Linear Regression) and drew conclusions and discussions
- Presented findings at a community forum for the CSM academic community
- Proposal earned 2nd Place out of ten group projects in the course by faculty and student leaders

## LEADERSHIP

**Treasurer**, Pre-Medical Club, Fresno State

Jun 20xx – Jun 20xx

- Managed financial records and collected each member's dues and gratuities given to the organization
- Applied and obtained the Instructionally Related Activities grant of \$5,000 that covered travel lodging and transportation for the club's annual medical school trip
- Organized a fundraiser for club members where 7 members, including myself, worked during the Vintage Days weekend resulting in a \$430 profit towards club activities
- Collaborated with Conference Coordinator officer to obtain the ASI Sponsored Activity Grant, which allocated a \$2,900 budget to host a pre-health conference on-campus attended by 200+ college and high school students