

# Brooke V. Jurasius

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**Education** Santa Clara University, 2023  
Biology Major

## Skills

- Geneious-Bioinformatics Software, R, MATLAB, SPSS Statistical Software, Prism GraphPad, Sketchup, Solidworks, MSOffice
- Experience in data collection and laboratory work; qPCR, ELISA, MSD, BCA Protein Assay, Western Inkblot Test, Data analytics
- Fluent in German

## Experience

April 2023- June 2023 **Pivot Bio** Hayward, CA  
*Process Development qPCR Summer Intern*

- Researched and validated primers specific for the bradyrhizobium bacteria strain
- Conducted qPCR experiments, plate dilutions, bacteria plating, and osmolality measurements
- Analyzed data to compare the enumeration of bacteria using qPCR and viable count methods

June 2022- April 2023 **Applied Molecular Transport** South San Francisco, CA  
*Biomarkers Intern*

- Conducted biological assays (ELISA, qPCR) to study the effect of IL-22
- Analyzed and interpreted clinical data sets
- Developed a proposal and report for a new AMT drug
- Utilized Prism GraphPad and Excel to create graphs and data tables
- Researched primers for genes that are affected by the IL-22 pathway to be used in qPCR

June 2021- Sept. 2021 **LEAD Program Santa Clara University** Santa Clara, CA  
*Research Assistant, Jasper Ridge Biological Preserve Project*

- Created protocols for bird feather DNA extraction and testing by analyzing molecular mechanisms of different primers for PCR testing and researching different DNA extraction techniques of the calamus from small bird feathers
- Conducted DNA extraction from bird feathers, executed PCR gel electrophoresis, performed DNA sequencing and bioinformatics analyses to test and refine the protocol

Sept. 2020- June 2021 **Cadet** Santa Clara, CA  
*US Army ROTC*

- Developed, through classes and field training, my leadership skills, critical thinking, problem solving, strategic planning, and adaptability to become a successful leader
- Participated in activities designed to foster the ability to work as a team and lead a team to achieve its goal of working together with mutual respect

Feb. 2017- March 2020 **Building Attendant** Walnut Creek, CA  
*City of Walnut Creek*

- Interpreted architectural diagrams to set-up various events at different city owned locations
- Prepared facility for arrival and departure of clients, ensured building equipment functions properly, notified authorities of maintenance issues, assisted with basic repairs, building furniture and cleaning
- Interacted with clients and resolved client conflicts