

# Jamar Jackson

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## OBJECTIVE

A laboratory research internship with BioMarin Pharmaceutical, Inc.

## EDUCATION

Bachelor of Science in **Biological Sciences**, *Expected June 2025*

University of California, Davis

GPA: 3.67/4.00

**Related Coursework:** General Chemistry (Lab), Organic Chemistry (Lab), Genes and Gene Expression, Structure & Function of Biomolecules, Introduction to Evolution, Molecular and Cellular Biology of Plants, Cell Signaling in Health & Disease, Neurobiology Laboratory (Lab), Applied Statistical Methods: Regression Analysis

## SKILLS

**Lab:** PCR, microscopy, gel electrophoresis, SDS-PAGE, restriction enzyme digest, pipetting, serial dilution

**Computer:** Microsoft Word, Excel, PowerPoint, Google Docs

**Languages:** Python (Beginner), R (Proficient)

## RESEARCH EXPERIENCE

**Undergraduate Research Assistant**, Dept. of Microbiology and Molecular Genetics, UC Davis *March 2022 - Present*

- Explore the interactions between *Entamoeba histolytica* and the human host in order to elucidate mechanisms of amoebic trophocytosis
- Culture microbes in liquid culture and utilize microscopy techniques to examine trophocytosis over time
- Perform a restriction enzyme digest with fellow undergraduate in order to create a plasmid containing the trigger gene and clone them in microbial cells
- Verify the presence of the trigger gene with PCR and gel electrophoresis to ensure successful cloning
- Troubleshoot issues within the project by communicating with fellow lab members and seeking various solutions
- Present on scientific papers related to ongoing projects during journal club and stimulate meaningful conversation

## SPECIAL PROJECT

**Using AI to Study Human Genetic Diseases**, UC Davis

*Sept 2023 - Dec 2023*

- Collaborated with two classmates to compile list of mutated genes in Alzheimer's in order to find common and rare associated proteins for our project
- Visualized protein structures of normal and mutated isoforms of the protein PSEN1, MAPT, and APLP1 using AlphaFold2 and presented results with the class in an engaging PowerPoint

## OTHER EXPERIENCE

**Shift Leader**, In-N-Out Burger, Davis, CA

*Oct 2022 - Present*

- Provide outstanding customer service and handled customer complaints effectively
- Train and supervise ten staff members, providing feedback for areas of growth in order to strengthen team
- Maintain accurate inventory count of all products to ensure smooth running of business
- Uphold proper food sanitation standards by strictly adhering to all food handling safety protocols

## ACTIVITIES

Volunteer, Yolo County SPCA, Davis, CA, *Apr 2022 - present*

Activities Coordinator, Black Student Association, UC Davis, *Sep 2021 - present*