

Bradley N. Jenner

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PROFILE

Third year at the University of California, Davis. Obtaining a Bachelor's of Science in **Biotechnology** with an emphasis in **Bioinformatics**. Expected June 2021. **3.711 GPA**. Member of the **University Honors Program** at UC Davis. Interested in bioinformatics/genomics and software development.

RELATED COURSEWORK

Principles of Genomics

Genes & Gene Expression

Introduction to Microbiology

Introduction to Data Structures

Applied Bioinformatics

Computational & Structural Bioinformatics

Calculus for Biology & Medicine

Linear Algebra Applied to Biology

Applied Statistics for Biological Sciences

EDUCATION

Bachelor of Science in Biotechnology (Bioinformatics Emphasis)

Expected June, 2021

University of California, Davis

SKILLS

Molecular Biology Techniques (PCR/qPCR, DNA/RNA Extraction)

Software Development (Python/R/Bash)

Bioinformatic Analysis (Variant Analysis/RNA Sequencing Analysis)

Oral & Written Communication

Archival Data Management

Web Development and Management

POSITIONS

Plant Pathology Laboratory/Bioinformatics Assistant, Gordon Lab, UC Davis

(October 2017 to present)

- Design and conduct independent experiments investigating fungal and plant genetics and pathosystems.
- Analyze sequence and expression data using open source bioinformatics software (HTStream, HTseq, GATK, BWA, STAR, edgeR, topGO) and personally developed programs (Python, R, Bash).
- Perform a variety of molecular biology techniques for RNA sequencing and variant analysis experiments.

Neuroscience Bioinformatics Assistant, Nord Lab, UC Davis

(July 2019 to present)

- Analyzed expression data using custom R scripts in order to answer relevant questions in Neurogenomics.
- Create and maintain laboratory webpages hosting Github repositories, social media, and publications.
- Managed archival data. Designed and facilitated secure methods for data transfer to remote storage services.

General Chemistry Learning Assistant, UC Davis

(January 2019 to March 2019)

- Educated undergraduate students about key concepts in Chemistry through lectures and one-on-one interactions.
- Established safe and comfortable learning environments by hosting study sessions for students and their peers.

EXPERIENCE

Poster Presentation, Northern California Computational Biology Symposium, UC Davis (October 12, 2019)

- Presented findings to peers and faculty from multiple universities regarding the transcriptional responses of strawberry to global variants of *Fusarium oxysporum f. sp. fragaria*.

Oral Presentation, Undergraduate Research Conference, UC Davis (April 27, 2019)

- Presented findings for research regarding somatic compatibility group diversification in *Fusarium circinatum* via spontaneous mutation to peers and UC Davis faculty.