

# Bradley N. Jenner

Davis, CA 95616 | (916) 878-8485

Email: [bnjenner@ucdavis.edu](mailto:bnjenner@ucdavis.edu)

Website: <https://bnjenner.github.io>

Github: <https://github.com/bnjenner>

## 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.

## EDUCATION

**Bachelor of Science in Biotechnology (Bioinformatics Emphasis)**

Expected June, 2021

University of California, Davis

## RELATED COURSEWORK

Principles of Genomics

Applied Bioinformatics

Introduction to Data Structures

Calculus for Biology & Medicine

Genes & Gene Expression

Computational & Structural Bioinformatics

Linear Algebra Applied to Biology

Applied Statistics for Biological Sciences

## SKILLS

Bioinformatic Analysis (Variant Analysis/RNA Sequencing Analysis)

Software Development (Python/R/Unix)

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

Oral & Written Communication

Archival Data Management

Web Development and Management (Javascript)

## EXPERIENCE

**Bioinformatics Assistant**, Bioinformatics Core, UC Davis

(March 2020 to present)

- Develop and implement statistical software for HTStream preprocessing sample QC.
- Provide individual instruction at professional workshops hosted by the Bioinformatics Core on a variety of computational analyses (RNA sequencing, scRNA sequencing, etc.).

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

(October 2017 to present)

- Design and conduct independent experiments investigating fungal/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 (VCFriend).
- Perform molecular biology techniques for RNA sequencing and variant analysis experiments

**Neuroscience Bioinformatics Assistant**, Nord Lab, UC Davis

(July 2019 to March 2020)

- Analyzed expression data 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 concepts in Chemistry through lectures and tutoring.
- Established safe and comfortable learning environments by hosting study sessions for students and their peers

**PRESENTATIONS**

**Poster, 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, 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.