

# 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 a minor in **Computer Science**. Expected June 2021. **3.719 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

Organic Chemistry for Health & Life Sciences

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 (Computer Science Minor)**

Expected December, 2021

University of California, Davis

## SKILLS

Bioinformatic Analysis (Variant Analysis/Differential Expression)

Computer Programming (Python/R/Unix)

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

Science Communication (Oral & Written)

Information Technology Management

Web Development and Management

## POSITIONS

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

(October 2017 to present)

- Designed and conducted independent experiments investigating fungal and plant genetics.
- Analyzed sequence and expression data using open source bioinformatics software (HTStream, GATK, BWA, STAR, edgeR, topGO) and individually developed programs (Python, R, Unix).
- Performed a variety of molecular biology techniques (PCR, qPCR, DNA/RNA Extraction)

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

(July 2019 to present)

- Used bioinformatic methods to analyze expression data and answer relevant questions in Neurogenomics.
- Created and maintained laboratory webpages hosting Github repositories, social media, and publications.
- Managed archival data by designing and implementing robust infrastructure for data transfer and storage using cloud-based services (Box).

**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.