

Bradley N. Jenner

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PROFILE

Fourth year at the University of California, Davis. Obtaining a Bachelor's of Science in **Biotechnology** with an emphasis in **Bioinformatics**. Expected June 2021. **3.724 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/Bash)

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

Science Communication (Oral and Written)

Archival Data Management (Cloud Storage)

Web Development and Management (Javascript)

EXPERIENCE

Bioinformatics Assistant, Bioinformatics Core, UC Davis

(March 2020 to present)

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

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

(October 2017 to present)

- Design and conduct independent experiments investigating fungal/plant genomics 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 DNA/RNA related molecular biology techniques (PCR/qPCR, DNA/RNA Extraction).

Neuroscience Bioinformatics Assistant, Nord Lab, UC Davis

(July 2019 to July 2020)

- Analyzed expression data to answer relevant questions in Neurogenomics.
- Created/maintained laboratory webpages hosting Github repository and publication information.
- Managed archival data. Designed and facilitated secure and robust methods for data transfer to remote

storage services.

General Chemistry Learning Assistant, UC Davis (January 2019 to March 2019)

- Assisted in educating undergraduate students about key concepts in Chemistry through lectures and tutoring.
- Established safe and comfortable learning environments for students by hosting group study sessions.

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.