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. **3.724 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	Genes & Gene Expression
Applied Bioinformatics	Computational & Structural Bioinformatics
Introduction to Data Structures	Linear Algebra Applied to Biology
Calculus for Biology & Medicine	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)
Oral & Written Communication
Archival Data Management
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 sample.
- 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 DNA/RNA related molecular biology techniques (PCR/qPCR, DNA/RNA Extraction).

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 and robust 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.