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 biotechnology, bioinformatics, 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/C++/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.