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 December, 2021. **3.72 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 December, 2021
University of California, Davis

RELATED COURSEWORK

Genetics & Genomics	Biochemistry & Cell Biology
Applied Bioinformatics	Computational/Structural Bioinformatics
Introduction to Data Structures	Linear Algebra
Calculus	Applied Statistics

SKILLS

Bioinformatic Analysis (Variant Analysis/Differential Expression Analysis)
Software Development (Python/C++/R/Bash)
Utilizing High Performance Computing Resources
Molecular Biology Techniques (PCR/qPCR, DNA/RNA Extraction)
Science Communication (Oral and Written)

EXPERIENCE

Bioinformatics Assistant, Bioinformatics Core, UC Davis (March 2020 to present)

- Perform bioinformatic analyses for Bioinformatics Core clients.
- Develop a MultiQC module for efficient QC analysis from HTStream preprocessing reports.
- Provide individual instruction at professional workshops hosted by the Bioinformatics Core covering

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 bioinformatics software (HTStream, HTseq, GATK, BWA, STAR, edgeR, topGO).
- Conduct experiments using DNA/RNA related molecular biology techniques (PCR/qPCR, DNA/RNA Extraction).

Neuroscience Bioinformatics Assistant, Nord Lab, UC Davis (July 2019 to July 2020)

- 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.