

Bailey Jannuzzi

Undergraduate Bioinformatics Student
Utah Valley University

Education

Utah Valley University

Bachelor of Science in Bioinformatics
Current GPA: 3.81

Orem, UT

Expected Graduation: Spring 2026

Utah Valley University

Associate in Science in Biology | High Honors

Orem, UT

Graduated: Spring 2025

Research Experience

Utah Valley University

Hjelmen Lab | Independent Student Researcher

Research Advisor: Carl E. Hjelmen, PhD

Orem, UT

Spring 2024 - Present

Investigating the diet of forensically relevant blow flies (Diptera: Calliphoridae) to determine their effectiveness as wildlife monitors.

- Constructing reproducible bioinformatic pipelines to identify environmental DNA from blow fly gut content samples.

Utah Valley University

Hjelmen Lab | Peer Research Collaborator

Research Advisor: Carl E. Hjelmen, PhD

Orem, UT

Spring 2025 - Present

Assisting with gathering data on blow fly (Diptera: Calliphoridae) diversity and distribution in Utah.

- Conducting field collections.
- Preparing collected specimens through pinning and labeling to be identified.

Presentations

*Presenting Authors

Poster Presentations

Entomological Society of America, Pacific Branch Meeting

2025

Oxford Nanopore Technology Sequencing and Identification of Fly Gut Content, *Bailey Jannuzzi, Andrew Meeds, Lauren M. Weidner, and Carl E. Hjelmen

Oral Presentations

Entomological Society of America, Annual Meeting

Accepted for November, 2025

Optimizing a Bioinformatic Pipeline for Profiling Blow Fly Diets, *Bailey Jannuzzi, Andrew Meeds, Lauren M. Weidner, and Carl E. Hjelmen

Awards and Honors

Awards

Scholarly Activities Committee Grant Amount Awarded: \$1198.00	2025
Undergraduate Research, Scholarly, and Creative Activity Grant Amount Awarded: \$1428.00	2025

Honors

Dean's List — Utah Valley University	Spring 2023 - Present
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Experience

Utah Valley University General Biology Teaching Assistant <ul style="list-style-type: none">- Grading assignments and exams.- Hosting weekly study and review sessions.- Assisting with in-class activities.	Orem, UT Fall 2025 - Present
Utah Valley University Genetics Teaching Assistant <ul style="list-style-type: none">- Supporting students in applying class concepts to solve practical problems.	Orem, UT Spring 2025

Membership

UVU Evolution and Bioinformatics Club President	Spring 2025 - Present
UVU Evolution and Bioinformatics Club Secretary	Spring 2024 - Spring 2025

Relevant Courses

Computational

- Fundamentals of Programming
- Object Oriented Programming
- Database Fundamentals
- Calculus I
- Principles of Statistics
- Data Analysis for Biologists
- Introduction to Systems Administration-Linux/UNIX
- Intro to Data Analytics
- Bioinformatics Data Skills
- Discrete Mathematical Structures I
- Introduction to Algorithms and Data Structures

Biology

- Introduction to Biotechnology
- Principles of Chemistry I & II
- College Biology I & II
- Introduction to Bioinformatics
- Molecular Biology
- Genetics
- Principles of Evolution
- General Ecology
- Genomics
- Phylogenetics

Skills

Computational Skills

- SQL
- Statistics and Data Analysis in R and Python
- BASH Scripting/Linux

Laboratory Skills

- Pipetting
- DNA Extraction
- PCR
- Gel Electrophoresis
- DNA Purification

Other

- Microsoft Office Suite (Word, Excel, PowerPoint, Outlook)