

Bailey Jannuzzi

Undergraduate Bioinformatics Student
Utah Valley University

Education

Utah Valley University Orem, UT
Bachelor of Science in Bioinformatics Expected Graduation: Spring 2026
Current GPA: 3.81

Utah Valley University Orem, UT
Associate in Science in Biology, High Honors Graduated: Spring 2025

Research Experience

Utah Valley University Orem, UT
Hjelmen Lab | Independent Student Researcher Spring 2024 - Present
Research Advisor: Carl E. Hjelmen, PhD

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 Orem, UT
Hjelmen Lab | Peer Research Collaborator Spring 2025 - Present
Research Advisor: Carl E. Hjelmen, PhD

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

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 Genetics Teaching Assistant <ul style="list-style-type: none">- Supporting students in applying class concepts to solve practical problems.	Orem, UT Spring 2025
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

Membership

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

Relevant Courses

Computational <ul style="list-style-type: none">- 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 <ul style="list-style-type: none">- Introduction to Biotechnology- Principles of Chemistry I & II- College Biology I & II- Intro to Bioinformatics- Molecular Biology- Genetics- Principles of Evolution- General Ecology- Genomics- Phylogenetics
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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)