

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

Entomological Society of America, Annual Meeting Accepted for November, 2025
From City to Canyon: A Survey of Blow Fly Biodiversity Across Utah Ecoregions, *Haylee Beck, Bailey
Jannuzzi, Lauren M. Weidner, and Carl E. Hjelmen

Oral Presentations

Entomological Society of America, Annual Meeting	Accepted for November, 2025
<i>Optimizing a Bioinformatic Pipeline for Profiling Blow Fly Diets, *Bailey Jannuzzi, Andrew Meeds, Lauren M. Weidner, and Carl E. Hjelman</i>	
Entomological Society of America, Annual Meeting	Accepted for November, 2025
<i>What flies eat and excrete: Insights from puke, poop, and gut contents of blow flies for wildlife and forensic applications, *Lauren M. Weidner, Bailey Jannuzzi, Yeilee Perez Ortiz, Gabrielle Meza, Andrew Meeds, and Carl E. Hjelman</i>	

Awards and Honors

Awards and Funding

Undergraduate Research, Scholarly, and Creative Activity Dissemination Grant	2025
Amount Awarded: \$1,093	
Scholarly Activities Committee Grant	2025
Amount Awarded: \$1198.00	
Undergraduate Research, Scholarly, and Creative Activity Grant	2025
Amount Awarded: \$1428.00	

Honors

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

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

Membership

UVU Evolution and Bioinformatics Club President	Spring 2025 - Present
UVU Evolution and Bioinformatics Club Secretary	Spring 2024 - Spring 2025
Entomological Society of America	Current
Entomological Society of America, Pacific Branch	Current

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)