bailey.jannuzzi@gmail.com | Website: https://bailey-jj.github.io/ | GitHub: https://github.com/Bailey-JJ

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   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

<u>**Oral Presentations**</u>
Entomological Society of America, Annual Meeting   2025
Optimizing a Bioinformatic Pipeline for Profiling Blow Fly Diets, ***Bailey Jannuzzi**, Andrew Meeds, Lauren M. Weidner, and Carl E. Hjelmen

Entomological Society of America, Annual Meeting   2025
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. Hjelmen

Awards and Honors

<u>**Awards and Funding**</u>
Undergraduate 10-Minute Presentation: SysEB, Behavior and Biodiversity | 2nd Place Award   2025

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

<u>**Honors**</u>
Dean's List — Utah Valley University   Spring 2023 - Present

Experience

Utah Valley University   Orem, UT
General Biology Teaching Assistant   Fall 2025 - Present
-    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
-    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)