

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 and Funding

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

Honors

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

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| 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

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

Relevant Courses

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| 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- Introduction 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)