

# Remington R. Motte

Lab Assistant, Utah Valley University  
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## Education

*See page 3 for relevant courses*

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BS      Utah Valley University, Orem      May 2023  
Department of Biology  
**Independent Project:** Investigating the relationship  
between DSCAM evolution and arthropod sociality.  
Advisor: Dr. Carl Hjelman

## Research Experience

*See page 3 for relevant skills*

### Research Positions

**Independent Researcher**, Hjelman Lab      Spring 2022-Present  
Advisor: Carl Hjelman, PhD, Hjelman Lab, Utah Valley University  
Investigating: Using comparative phylogenetics to investigate the relationship between brain development genes in neuron number in vertebrates and cephalopods, and sociality in arthropods.

- Developed and implemented independent research project
- Utilized various phylogenetic tree reconstruction methods
- Use of comparative phylogenetic analyses and programs
- Use of molecular biological software

**Research Assistant**, Brook Lab      Spring 2023-Present  
Advisor: Lauren Brooks, PhD, Brook Lab, Utah Valley University  
Investigating: Studying the evolution of biocide resistance and identifying mutated genes in antibiotic resistant bacteria

- Bacterial culturing
- ZoI and CFU testing
- Identifying mutant genes
- Bash script writing and pipelining

**Laboratory Technician**, Analytical Chemistry      Fall 2022-Present  
Supervisor: Cory Larsen, Lab Manager, Utah Valley University  
Responsibilities:

- Preparing labs and solutions
- Testing lab equipment
- Clean glassware and lab equipment

**Laboratory Technician**, General Chemistry      Fall 2022-Present  
Supervisor: Tom Strangfeld, Lab Manager, Utah Valley University  
Responsibilities:

- Preparing labs and solutions
- Testing lab equipment
- Clean glassware and lab equipment

## Presentations

\*Presenting author, <sup>P</sup>Poster presentation, <sup>O</sup>Oral presentation

### 2023

\***R. Motte**, L. Brooks <sup>P</sup>Bacteria has Thick Skin: Biocide Resistance in Members of Staphylococcus.  
-Spring 2023 UVU Biology Department Research Poster Day, Utah Valley University.

\***R. Motte**, C. Hjelman. <sup>o</sup>Investigating the relationship between DSCAM evolution and arthropod sociality.

-Entomology Society of America 2023 Pacific Branch Meeting Accepted Oral Presentation

\***R. Motte**, C. Hjelman. <sup>p</sup>Smart Animals and Social Critters: The relationship of Protocadherin evolution and neuronal diversity and the impact of DSCAM evolution on sociality.

-Utah Conference on Undergraduate Research Poster Presentation, University of Utah.

## 2022

\*S. Morreal, \*S. Smith, \*C. Monsen, \***R. Motte**, N. Hughes, and O. Kopp. <sup>p</sup>Effects of Varying pH on *Pisum sativum*.

-Fall 2022 UVU Biology Department Research Poster Day, Utah Valley University.

## *Grants/Awards/Honors*

### Grants

Scholarly and Creative Activities Council Student Dissemination (\$1,481)	2024
Student Activities Committee Grant Dissemination Grant (\$470)	2024
Scholarly and Creative Activities Council Student Dissemination (\$1,354)	2023

### Awards

Salutatorian of Pinnacle Canyon Academy Scholarship (\$500)	2018
Scholar Athlete of the Year of Pinnacle Canyon Academy Scholarship (\$300)	2018

### Honors

Dean's List, Utah Valley University	Fall of 2018, Spring of 2023
Salutatorian, Pinnacle Canyon Academy	2018

## *Community Science Education & Outreach*

### Community Science Education

Zoology Teaching Assistant, Utah Valley University	August 2022-May 2023
Chemistry Teaching Assistant, Utah Valley University	August 2022-May 2023
Elementary Teachers Assistant, Pinnacle Canyon Academy	January 2018-May 2018

### Outreach

Entomology Children's Outreach Event, Springville Library	June 2023
Entomology Children's Outreach Event, Spanish Fork Library	June 2023
Utah Valley University's Darwin Day Event	February 2023

## *Professional Experience*

### Job position

<b>Stockroom &amp; Lab Assistant</b>	August 2022-Present
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Chemistry Department, Utah Valley University

Description: Assisting in moving lab equipment, and setting up labs. Preparing chemical reagents, ordering chemicals, and assisting in disposing of chemicals, etc.

<b>Direct Service Provider</b>	May 2022-August 2022
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Rise Services, Orem, UT

Description: Helping disabled kids participate in summer activities and work on their own individual goals

**Retail Sales Associate**

July 2018-May 2022

Big 5 Sporting Goods

Description: Assist customers in a timely and friendly manner with sporting goods needs.

***Academic Affiliations/Clubs***

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***Academic Affiliations***

Entomological Society of America member

2023-present

Utah Valley University Evolution and Bioinformatics Club member

Fall 2022-present

***Clubs***

UVU Co-Ed Volleyball

Fall 2022-present

UVU Bachata Dance Club

Spring 2023

***Relevant Courses***

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- Cell Biology
- Molecular Biology
- Microbiology
- Neuroscience
- Biological Anthropology
- General Ecology
- Evolution
- Genetics
- Genomics
- Bioinformatics, Data Skills
- Principles of Chemistry I & II
- Organic Chemistry I&II
- Biochemistry
- Principles of Statistics

***Skills***

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- Usage and implementation of chemical storage databases
- Preparation of buffers and solutions
- Supercomputer familiarity
- R for statistics and data visualization
- Bayesian phylogenetic methods
- Basic bash scripting
- Culturing bacteria
- Biocide resistance testing
- Galaxy