

# Remington R. Motte

Lab & Teachers Assistant  
Chemistry & Biology Department  
Utah Valley University

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Website: <https://remingtonrimo.github.io>

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## ***Future Education and Career Goals:***

I am interested in pursuing a PhD in Ecology and Evolution or Genetics, and teaching and performing research at the collegiate level.

## ***Education:***

**Bachelors of Science in Biology, GPA: 3.35**  
Utah Valley University, Orem, UT

**May 2023**

### **Relevant Courses:**

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

## ***Skills:***

- R for statistics and data visualization
- Bayesian phylogenetic methods
- Preparation of buffers and solutions
- Usage and implementation of chemical storage databases
- Basic Bash scripting
- Supercomputer familiarity

## ***Research Experience:***

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### **Hjelmen Lab**

**Spring 2022-Present**

Using comparative phylogenetics to investigate the relationship between brain development genes in neuron number in vertebrates and cephalopods, and sociality in arthropods.

I am doing:

- Developed and implemented independent research project
- Utilized various phylogenetic tree reconstruction methods
- Use of comparative phylogenetic analyses and programs
- R coding statistical analysis and visualization

### **Brooks Undergraduate Research Lab**

**Spring 2022-Present**

Studying resistance of hydrogen peroxide in members of Staphylococcus and mapping them onto phylogenies.

I am doing:

- Zone of Inhibition testing
- Colony Forming Unit testing
- Mapping biocide resistance onto phylogenies
- R coding statistical analysis and visualization

### **Community Outreach:**

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| • June 29, 2023, Entomology Outreach   | <b>UVU Biology</b>   |
| • June 07, 2023, Entomology Outreach   | <b>UVU Biology</b>   |
| • February 2023, Darwin Day            | <b>UVU Biology</b>   |
| • Summer 2022, Direct Service Provider | <b>Rise Services</b> |

### **Presentations: \*Presenting author**

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Bacteria has Thick Skin: Biocide Resistance in Members of *Staphylococcus*. **\*R. Motte**, L. Brooks  
-Spring 2023 UVU Biology Department Research Poster Day, April 26th, 2023, Utah Valley University.

Investigating the relationship between DSCAM evolution and arthropod sociality. **\*R. Motte**, C. Hjelman.  
-Entomology Society of America 2023 Pacific Branch Meeting Accepted Oral Presentation, April 4th, 2023

Smart Animals and Social Critters: The relationship of Protocadherin evolution and neuronal diversity and the impact of DSCAM evolution on sociality. **\*R. Motte**, C. Hjelman.  
-Utah Conference on Undergraduate Research Poster Presentation, February 18th, 2023, University of Utah.

Effects of Varying pH on *Pisum sativum*. \*S. Morreal, \*S. Smith, \*C. Monsen, **\*R. Motte**, N. Hughes, and O. Kopp.  
-Fall 2022 UVU Biology Department Research Poster Day, December 6th, 2022, Utah Valley University.

### **Groups and Clubs:**

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- UVU Evolution and Bioinformatics Club
  - UVU Co-Ed Volleyball
  - UVU Bachata Dance Club

### **Other relevant experience:**

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| • <b>UVU Chemistry Stockroom/Lab</b>   | <b>August 2022-Present</b>  |
| Assisting in moving lab equipment, and setting up labs. Preparing chemical reagents, ordering chemicals, and assisting in disposing of chemicals, etc. |                             |
| • <b>UVU Teachers Assistant</b>  | <b>August 2022-Present</b>  |
| Grading student assignments and answering student questions for Zoology and Chemistry lecture courses, as well as the Chemistry lab.                   |                             |
| • <b>Rise Services Direct Service Provider</b>   | <b>May 2022-August 2022</b> |
| Helping disabled kids participate in summer activities and work on their own individual goals  |                             |

- **Big 5 Sporting Goods** **July 2018-May 2022**  
Assist customers in a timely and friendly manner with sporting goods needs.
- **Elementary Teachers Assistant** **January 2018-May 2018**  
Assist students understand concepts being taught, helping them with their homework, participating in fun activities, grading assignments, and helping the teacher out as needed.

***Awards:***

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- 2024 Scholarly and Creative Activities Council Student Dissemination (\$1,481)
- 2024 Student Activities Committee Grant Dissemination Grant (\$470)
- 2023 Scholarly and Creative Activities Council Student Dissemination (\$1,354)
- 2018 Salutatorian of Pinnacle Canyon Academy Scholarship (\$500)
- 2018 Scholar Athlete of the Year of Pinnacle Canyon Academy Scholarship (\$300)
- Dean's List - Fall of 2018