

Remington R. Motte

Lab & Teachers Assistant
Chemistry & Biology Department
Utah Valley University

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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:

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

Presentations: *Presenting author

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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- | | |
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| • UVU Chemistry Stockroom/Lab | August 2022-Present |
| Assisting in moving lab equipment, and setting up labs. Preparing chemical reagents, ordering chemicals, and assisting in disposing of chemicals, etc. | |
| • UVU Teachers Assistant | August 2022-Present |
| Grading student assignments and answering student questions for Zoology and Chemistry lecture courses, as well as the Chemistry lab. | |
| • 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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- 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