

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
- 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:

- 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.

- 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 Lab

Spring 2022-Present

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

- 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, ^PPoster presentation, ^OOral presentation

2023

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

^OInvestigating the relationship between DSCAM evolution and arthropod sociality. ***R. Motte**, C. Hjelman.
-Entomology Society of America 2023 Pacific Branch Meeting Accepted Oral Presentation

^PSmart 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, University of Utah.

2022

^PEffects 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, 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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| • 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. | |
| • Rise Services Direct Service Provider | May 2022-August 2022 |
| 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:

- 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