Utah Valley University

NSF S-STEM Scholar

Twitter: @MagMorelli

[morelli.magnolia@gmail.com](mailto:morelli.magnolia@gmail.com)

*Curriculum vitae of*

**Magnolia W. Morelli**

Last updated: March, 2023

<https://magnoliamorelli.github.io/MyWebsite/index.html>

**Education**

Bachelor of Science in Bioinformatics

* + Utah Valley University, Expected Graduation May 2024
  + GPA: 3.71

Associate of Science in Biology

* + Salt Lake Community College, Graduated Spring 2020
  + GPA: 3.70

**Publications**

Morelli, M. W., Blackmon, H., & Hjelmen, C. E. (2022). Diptera and Drosophila Karyotype Databases: A Useful Dataset to Guide Evolutionary and Genomic Studies. Frontiers in Ecology and Evolution, 10. <https://www.frontiersin.org/article/10.3389/fevo.2022.832378>

**Code Publications**

Zahn, G., Hickman, K., Leon, J., Caldwell, J., Morelli, M., & Aimone, B. (2023). gzahn/syringodium\_bacteria: 0.0.1 (v0.0.1). Zenodo. https://doi.org/10.5281/ZENODO.7729694

**Research Interests**

Mycology; bioinformatics; ecology; animal/fungal interactions; genomics; marine studies; evolution of species; collections-based research

**Awards and Funding (Total: $57,286)**

**2023 -** AmeriCorps STEM Specialist - **$6,300**

* Sharon Elementary School

**2022 -** Board of Trustees Engaged-Learning Award - **$5,995 awarded**

* Unknown Mushroom

Biology Department Employee - **$5,328 awarded**

* Student Lab Assistant

Cultural Diversity Resident Waiver - **$2,806 awarded**

* Utah Valley University scholarship for tuition and books

Mycology in the Swamp - **$750 awarded**

* MSA Mentor Student Travel Award

William A. Sederburg Scholarship Fund - **$1,500 awarded**

* Utah Valley University scholarship for tuition and books

Undergraduate Research Scholarly and Creative Activities Grant - **$2,730 awarded**

* Mycological Society of America Conference travel funding through UVU

The D. Clark and Pam Turner Endowment for Engaged Learning in STEM Research Fellowships - **$3,985 awarded**

* Mycophagy in Ungulates throughout the United States

Undergraduate Research Scholarly and Creative Activities Grant - **$958 awarded**

* Mycophagy in White-Tailed Deer throughout Northern Utah

**2021 -**  National Science Foundation S-STEM Fellowship - **$23,490 awarded**

* Research scholarship with full tuition, mentored research, and a travel stipend

Undergraduate Research Scholarly and Creative Activities Grant - **$1,944 awarded**

* Mycophagy in Primates throughout Costa Rica

**2019 -** Salt Lake Community College Travel Abroad Research Scholarship - **$1,500 awarded**

* Mycophagy in Primates

**Presentations & Mentions**

**2022 -** Hubbard Brook LTER **(Talk)**

* ESA SEEDS - National Fieldtrip. Woodstock, New Hampshire

Mycology in the Swamp **(Poster)**

* Movement of Mushrooms through Ungulates

UVU Mycology Symposium **(Poster)**

* Movement of Mushrooms Along the Wasatch Front

NSF Student Research Position **(Talk)**

* Trace Metals in Sport Fish of Utah Lake

UVU NSF Fellowship Presentation **(Poster)**

* Poster presentation at UVU for Mycophagy in Primates research

**2021 -** Mycological Society of America **(Article Spotlight)**

* <https://msastudents.org/2021/09/27/magnolia-morelli/>

UVU Map the Systems **(Talk)**

* Presenting research about the shrinking of the Great Salt Lake to a symposium of peers, research professors, and stakeholders

**STEM Employment and Experience**

**2023 -** AmeriCorps STEM Specialist

* Sharon Elementary

**2022 -** Research Student

* Utah Valley University

R Studio Traveling Workshop

* Utah Valley University and Washington State University

Biology Student Representative

* Utah Valley University

Mushroom Unknown

* Independent research project, Utah Valley University

Diptera and Drosophila Karyotype Databases

* Collaborated research project, Utah Valley University and Texas A&M University

**2021 -** Mycophagy in Ungulates

* Independent research project, Utah Valley University

ARUP Laboratory

* Infectious Disease Lab & COVID-19 Response Team

**2020 -** CZAR Laboratory

* Zebra Fish Mutations

**2017 -** Covance Laboratory

* Pharmaceutical Testing

**Related Training**

* Bioinformatics – R Studio, Python, SQL
* Command Line – GitBash
* Fungal Culturing and Isolation
* Google Software Experience
* Infectious Disease Handling and Sample Processing
* Microbiome Analysis Workshop
* Scientific Writing Experience
* Wet and Dry Lab Experience
* Mycology Lab Aide
* Windows Software Experience

**Leadership**

**2021-Current** AmeriCorps STEM Instructor

Mycology Work Study

ScoVille Scortchers

Real vs Science – Movie Edition

Utah Valley University Biology Student Representative

STEM Festival Instructor

Darwin Day Instructor

Doughnuts with the Dean Advisor

National Society of Leadership and Success Inductee

Mycological Society of America Member

Secretary of Evolution and Bioinformatics Club

**2016-2020** Salt Lake Community College Biology School Tutor

Salt Lake Community College High Honor Student