

# Ian Bailey

439 University Ave. #22 Missoula, MT 59801  
570-903-1194 · [ian.bailey@umconnect.umt.edu](mailto:ian.bailey@umconnect.umt.edu)

## Education

B.S. in Biochemistry, Minor in Geography University of Vermont (UVM), Spring 2022  
High School Diploma Forest City Regional High School, 2018

## Current position

Ph.D. candidate in Cellular, Molecular, and Microbial Biology

University of Montana (UM): Fall 2022 – Present

## Achievements

UVM Dean's List 2022  
Cumulative grade-point average of not less than 3.00 who stood in the top 20 percent of each class of their college/school during the preceding semester

International Geographical Honor Society 2022  
A minimum of three courses in geography with a 3.3 GPA (on the 4.0 scale) in those courses, and rank in the top 35% of their class

UVM Presidential Scholarship 2018 – 2022  
Merit scholarship to the highest academic performing students

Eagle Scout 2017  
Highest attainable achievement in the Boy Scouts of America

## Research Experience

Dr. Scott Samuels's Lab UVM, Fall 2022 – Present  
Rotation project: Verification of an inducible *glpF* in *Borrelia burgdorferi*  
DNA and RNA isolation  
Quantitative PCR with SYBR Green

Dr. Brent Ryckman's Lab UVM, Winter 2023  
Rotation project: Genotyping and phenotyping of human cytomegalovirus (HCMV) recombinants  
Restriction Fragment Length Polymorphism assays  
Maintenance, inoculation, and harvesting of HCMV recombinants from human fibroblast cells

Dr. Dev Majumdar's Lab UVM, 2021 – 2022  
Analysis of protein-protein interactions formed in HEK 293 T cells from co-transfection of SARS-CoV-2 non-structural proteins  
Flow cytometry with FACS and MACS  
Co-immunoprecipitation

Dr. Scott Morrical's Lab UVM, Fall 2019 – Winter 2020  
Purification and comparison of glucose-6-phosphate dehydrogenase in a cyanophage S-RSM4 to a cyanobacteria of the genus *Synechococcus*  
Nickel-Affinity chromatography on an Akta Purifier station  
Enzymatic activity confirmed through spectrophotometric synthesis of NADPH

## Teaching Experience

Teaching Assistant

Medical Bacteriology  
Cellular and Molecular Biology  
Biochemistry

UM, Spring 2023  
UM, Fall 2022  
UVM, Fall 2020, 2021