Haleigh E. Brown

121 Helena Court North
Missoula, MT, 59801
Phone: (406)-239-0588

Email: haleighebrown@gmail.com
LinkedIn: www.linkedin.com/in/HaleighEBrown

Education

University of Montana (UM), Missoula MT
BA Computational Physics, minors in Mathematics and Computer Science
(2019 - Expected may 2023), GPA of 3.89

Experience

Teacher, PHSX 206N, College Physics I Laboratory (1credit)
University of Montana - 9/2022 to 12/2022

- Responsible for initial lab lecture and answering student questions throughout labs

NASA - Montana Space Grant Consortium: Peer Leader Intern
6/2022 to 8/2022

- 400-hour, ten-week paid internship, focused on increasing the accuracy of balloon trajectory prediction software
- Large emphasis on numerical weather modeling, python visualization methods, atmospheric fluid dynamics, and calculation-based trajectory prediction

Co-Teacher, PHSX 206N, College Physics I Laboratory (1credit)
University of Montana - 1/2022 to 5/2022

- Co-taught physic content during alternating weeks with two other, upperclass physics students
- Responsible for initial lab lecture and student question aid

NASA - Montana Space Grant Consortium: Apprentice
10/2021 to 12/2022

- 30-hour apprenticeship as a full-time student, focused on developing interactive educational videos for future eclipse campaign students
- Emphasis on equitable and inclusive methods of teaching

NASA - Montana Space Grant Consortium: Intern
5/2021 to 8/2021

- 400-hour, ten-week paid internship, focused on problem-solving and preparing training exercises for future National Eclipse Ballooning Project eclipse campaigns and for the Balloon Outreach, Research, Exploration And Landscape Imaging System (BOREALIS) program at Montana State University
- Worked extensively with Fusion 360, 3D printers, and on learning ballooning procedures in the field

Selected Presentations	Brown, H.E. (Dec.2022). ***"Balloon Trajectory Prediction: Improving Calculation-based Techniques,"*** poster presentation at the American Geophysical Union Conference, Chicago IL. Brown, H.E. (Dec. 2021). ***"Radiosonde Eclipse Campaign Education: Increasing Accessibility Through Adaptability and Affordability,"*** Poster presentation at the American Geophysical Union Conference, New Orleans LA.
Skills	**Programs such as:** Python, Java, Django, HTML, AutoCAD, MS Office suite, Fusion 360, 3D-printing slicers, Weather Research and Forecasting model, Vapor visualization tool
Certifications	**Responsible Conduct of Research Training -** 2021 to 2026
Awards	**President's 4.0 GPA List** - 2019, 2021, 2022 **Dean's List University of Montana** - 2020 **MSU Honors tuition waiver** - 2019 to present **Shallenberger Scholarship** - 2019, 2021 **Valedictorian, Sentinel Highschool** - 2019 **John Pohl Musician's Scholarship** - 2019 **Buddy DeFranco Improvisation award** - 2018
Community Involvement	**Montana American Indians in Math and Science Camp**, 2-day volunteer - 2021 **Sentinel Honors Society Member** - 2018, 2019 **Sentinel High School Robotics Outreach Manager** - 2018, 2019 **Vice president of Sentinel Art Club** - 2017, 2018 **Zoo Town Art Community Center,** part-time summer volunteer - 2014 to 2017 **Missoula Food Bank, Volunteer,** part-time summer - 2014 to 2016
References	**Carl Spangrude** Former University of Montana Montana Space Grant Consortium Managing Director - carl.spangrude@mso.umt.edu - (801) 664-8534 **Jaylene Naylor** Physics Lab Instructor at the University of Montana Director of the Autonomous Aerial Systems Office at the University of Montana - jaylene.naylor@umt.edu - (406) 529-9174