

Jason Haley

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Education

Frostburg State University

Graduate in May 2026

Bachelor of Science in Geography (Geospatial Science concentration)

GPA: 4.0

Bachelor of Arts in Spanish

Dean's List: Sem. 1-6

Minors in Climate Science and Data Science

Relevant Coursework

Advanced GIS, Fundamentals of Cartography, Data Modeling & Applications, Principles of Atmospheric Science, Global Climate Change, Physical Climatology

Experience

University of Maryland Center for Environmental Science

Frostburg, MD

Global Nitrogen Innovation Center for Clean Energy and the Environment (NICCEE)

May 2025 – Present

Research Intern

- Developing an interactive VR program in Unity using 3D modeling and C# scripting to simulate on-farm green ammonia production for NICCEE's education initiative
- Conducting literature reviews on nitrogen technologies with its environmental and climatological impacts
- Collaborating with researchers and professionals to ensure scientific accuracy and outreach value

Western Maryland Regional GIS Center

Frostburg, MD

GIS Intern

Oct. – Dec. 2023

- Created an ArcGIS Web Map for all 40 buildings at Frostburg State University
- Coordinated with Frostburg Fire Department to gather attribute information for use in emergency planning and operations
- Piloted drones to capture aerial photography to integrate the data alongside geospatial visualizations

Key Skills

- **Software Skills:** ArcGIS Pro and Online, OpenStreetMap, Generative AI (ChatGPT, Claude, CoPilot), Python, R, C# (basic), HTML, Unity, Microsoft Office Applications, Google Suite
- **Lab Skills:** Drone Piloting, Raster & Vector Data Analysis, Thematic Mapping, Spatial Autocorrelation, Gravity Models, Network Analysis, Spatial Interpolation
- **Language Skills:** Spanish – Advanced Proficiency (*Maryland Seal of Biliteracy Recipient*)

Involvement

Gamma Theta Upsilon (Geographical Honor Society)

Frostburg, MD

Vice President

Nov. 2024 – Present

Tennis Team, NCAA Division II

Frostburg, MD

Number 6 Singles – Led team to Conference Semi-Finals in 2024

Aug. 2022 – Present

Student Athletic and Advisory Committee

Frostburg, MD

Member of Diversity, Equity, & Inclusion Subcommittee

Sep. 2022 – May 2023