

Joel Brendan Wommack

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Education

The College of William and Mary, Sept. 2021 - May 2025

Bachelor of Science in Computer Science, Minor in Data Science

- Coursework: Software Development, Data Structures, Algorithms, Discrete Mathematics, Linear Algebra, Calculus I and II, Advanced GIS, Database Systems, Geovisualization and Cartography, Remote Sensing
- University of Freiburg Environmental Science and Sustainability Program: Sustainable Energies, QGIS, Biophilic/Climate Resistant Cities, Long Term Human Impact on Black Forest and Swiss Alps Ecosystems

Professional Experience

Virginia Institute of Marine Science, May 2025 - Present

Geospatial Data Analyst Intern

- Supporting various GIS and spatial data projects including the National Trap Program
- Scripting with pandas to process data from an ongoing Survey123, designing/maintaining a GIS dashboard

European Research Council – Urbisphere, April 2024 - August 2024

Undergraduate Research Technician exploring relations between climate change and urbanization

- Development of an API to fetch, format, and display geodata and relevant attributes from a dynamic data server / Displaying data on a public website developed utilizing the Tornado web framework
- Integrating into a European research project and collaborating effectively with German employees

Rocky Mountain Youth Corps, May 2023 - August 2023

Conservation Corps Member

- Wetland & meadow restoration, trail construction, land management, invasive species & vegetation removal
- Cartography Experience and Backcountry Navigation

Leidos Inc, December 2022 - February 2023

Software Development Intern

- Unit testing and analysis for a ray tracing system developed using Java
- Large codebase and production environment experience

Relevant Volunteer Experience

Herbarium Student Tech, October 2024 - December 2024

- Georeferencing old paper maps into a GIS to survey and maintaining campus flora records

Technical Skills

Programming Languages: Python, Java, C, C++, JavaScript, HTML

Other Skills: ArcGIS Pro, ArcGIS Online, Experience Builder, QGIS, Scripting, Git, Pandas, JSON, Unit Testing

References

Dr Karinna Nunez, Geospatial Modeling Manager and Senior Research Scientist, VIMS

Email: karinna@vims.edu

Matthias Zeeman, Project Manager and Developer, Universitat Freiburg (Freiburg, Germany)

Email: matthias.zeeman@meteo.uni-freiburg.de