

# Joel Brendan Wommack

+1 703-861-6600 / [jbwommack2003@gmail.com](mailto:jbwommack2003@gmail.com) / [joelbrendanwommack.com](http://joelbrendanwommack.com)

## **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 for developed with 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 maintain 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](mailto:karinna@vims.edu)

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

Email: [matthias.zeeman@meteo.uni-freiburg.de](mailto:matthias.zeeman@meteo.uni-freiburg.de)