

JACK ZAMARY

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EDUCATION

William and Mary (W&M), Williamsburg, VA

Expected May 2027

BS in **Data Science**, Concentrations in **Spatial Data Analytics**, Minor: **Biology**, GPA: 3.56

Honors: Dean's List Spring '24, Spring '25

SKILLS

Technology: ArcGIS Pro, ArcGIS Online, ENVI, SQLite, Python, Microsoft Power Apps, Microsoft Office Suite, Canva

Language: Advanced proficiency in Spanish; completed upper-level coursework (HISP 240, 321); AP Spanish Lang Exam score: 5

RELATED EXPERIENCE

GIS Research Analyst

January 2025 – Present

Institute for Integrative Conservation & Wildlife Conservation Society

Williamsburg, VA

- Analyzed ice coverage and algal bloom dynamics in Chukchi and Beaufort Sea coastal lagoons using Python (GeoPandas, Pandas) and Google Earth Engine API, producing time-series datasets for ecological monitoring
- Developed an interactive ArcGIS Experience Builder application to support local fishers and conservation specialists in visualizing habitat changes and identifying long-term trends in 26 study areas, improving accessibility of spatial data for decision-making

Teaching Assistant, Intro to GIS

August 2025 – Present

W&M Center for Geospatial Analysis

Williamsburg, VA

- Supported undergraduate students in GIS 201 by assisting with lab assignments using ArcGIS Pro and Esri software
- Helped students engage with and master core GIS concepts, including spatial data management, map design, and geospatial analysis

Biology Summer Research Intern

June 2025 – September 2025

Keck Environmental Field Lab & Virginia Institute of Marine Science (VIMS)

Williamsburg, VA

- Collaborated with VIMS to examine the ecological function of living shorelines with respect to soils, plants, and mobile fauna
- Collected, measured, and analyzed data on over 5,000 grass shrimp to assess living shoreline ecology; managed data entry and visualization in Excel and presented findings at the W&M 2025 Fall Research Symposium
- Conducted field research on crab pot designs to reduce turtle bycatch while maximizing blue crab catch. Organized and analyzed data in Excel to evaluate Bycatch Reduction Device (BRD) and Escape Hatch (EH) effectiveness

Diplomatic Technology OSHP Intern

January 2025

U.S. Department of State

Managua, Nicaragua

- Automated the OpenNet account approval process at the U.S. Embassy in Managua, Nicaragua, utilizing Microsoft SharePoint and Power Automate, reducing bottlenecks and increasing mission efficiency
- Presented the final Power Automate Flow to diplomatic technology supervisors

ACTIVITIES

President, W&M Club Cycling

April 2024 – Present

- Led the cycling team in weekly group rides, race events, and activities to foster growing team spirit, resulting in a more connected alumni network and increased club participation

Co-Leader, W&M Bike Alliance

May 2024 – Present

- Collaborated with two other students to lead the bike alliance, which involved designing new initiatives aimed at increasing student, staff, and faculty participation, ultimately getting over 100 members outside on bikes

ESL Volunteer Tutor, Aprendiendo Juntos

September 2024 – December 2024

- Tutored students at local high schools in James City County, VA in Science and Math subjects with a focus on developing students' understanding and confidence

Eagle Scout, Boy Scouts of America

September 2016 – March 2023

- Led youth while in high school and communicated with adult leaders to plan weekend events for the troop and create meeting agendas. Served one term as Senior Patrol Leader. Participation concluded with my Eagle Scout project