

# JACK ZAMARY

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## EDUCATION

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

Expected May 2027

BS in **Data Science**, Concentration 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 Intro to GIS by assisting with lab assignments using ArcGIS Pro and Esri software
- Helped students engage with and master 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

## LEADERSHIP EXPERIENCE

### President, W&M Club Cycling

April 2024 – Present

- Led the club 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