William Poncy

[poncyw@vt.edu](mailto:poncyw@vt.edu) | [Personal Website](https://wponc.github.io/) | 305.878.6994

**EDUCATION**

**Bachelor of Science, Environmental Data Science**, Expected Graduation May 2023

Virginia Tech, Blacksburg, VA

GPA: 3.78

**HONORS**

Dean’s List, Virginia Tech, Fall 2021, Spring 2022, Fall 2022

Dean’s List, University of Mary Washington, Spring 2020 & Fall 2020

Honors College Student, University of Mary Washington, 2019 - 2021

**RELEVANT COURSEWORK**

Environmental Informatics Biological Statistics

Forest Photogrammetry Object Oriented Analysis & Design

Forest Biology & Dendrology Info Tech for Natural Resource Management

Natural Resource Economics GIS Applications in Environmental Science

**RELEVANT EXPERIENCE**

**Undergraduate Researcher** | May 2022 - Present | Virginia Tech Turfgrass Pathology Lab

* Generated orthomosaic imagery of Independence Golf Club Championship 18 course using UAV flights
* Composed spring dead spot disease maps in ArcGIS Pro using site specific management units
* Combined drone imagery, python scripting, geospatial analytics, and data processing to reduce environmental impact of fungicide application
* Presented and defended work at research symposiums and international student conferences

**Fieldwork Assistant** | September 2021 – Present | SKTWorks LLC

* Operated UAV for assessment of land use practices
* Generated detailed photopoint information with ArcGIS Field Maps
* Combined aerial and land imagery with written survey data to evaluate conservation protocols
* Contributed to baseline documentation reporting for establishment of conservation easements

**Community Volunteer** | Spring 2021 | Friends of the Rappahannock

* Weekly river cleanup and watershed protection efforts

**CERTIFICATIONS**

FAA Part 107 Certified Remote Pilot in Command (Drone) September 2022

**PRESENTATIONS**

*Developing Spring Dead Spot Maps Across Entire Golf Course Fairways Using Aerial Imagery*

* 2022 VT Office of Undergraduate Research Summer Symposium
* 2022 VT School of Plant and Environmental Sciences Graduate Student Symposium
* 2022 Students of Agronomy, Soil & Environmental Sciences Annual International Meeting

**SKILLS**

* ArcGIS Pro, R/RStudio, Pix4D, Python, Java, Git
* Advanced Excel: Lookup Functions, Pivot Tables & Charts, Data Analysis Tools, Optimization, Simulation
* Advanced VBA programming and User Interface development
* Operation of DJI, Skydio, & Parrot drones