

# William Poncy

poncyw@vt.edu

832 Newport Terrace, Blacksburg, VA

305.878.6994

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## 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