William Poncy

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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