

Will Poncy

email: poncyw@gmail.com

portfolio: will.limited

education

Virginia Tech

MS, Forestry, currently pursuing

BS *Magna Cum Laude*, Environmental Data Science

certifications

FAA Part-107 Remote Pilot (Drone)

VA Certified Prescribed Burn Manager

experience

Virginia Tech FREC | Aug 2023 - Present

Graduate research assistant for a US Forest Service project analyzing canopy height data from ICESat-2 space-based LiDAR. Utilizing Python data analysis to determine stand clearing disturbances over time in the Southeastern US. Teaching assistant for geographic information technology and forest photogrammetry courses.

Esri | May 2023 - Aug 2023

Intern assisting full time support analysts with bug research & defect troubleshooting. Conducted technical knowledge transfer presentations to ArcGIS division teams. Participated in Geoplanner tool research contributing to emission reduction modeling. Developed ArcGIS Enterprise Site displaying resources for natural disaster relief for the state of Hawaii as final project.

Virginia Tech SPES | May 2022 - May 2023

Undergraduate research assistant for NSF-funded project generating orthomosaics of Independence Golf Club Championship 18 with UAV flights. Composed spring dead spot disease maps in ArcGIS Pro using site specific management units. Combined drone imagery, python scripting, geospatial analytics to reduce fungicide application.

SKTWorks LLC | Sep 2021 - Present

Primary drone pilot for aerial photography in baseline documentation reporting. Fieldwork assistant generating detailed photopoint information with ArcGIS Field Maps. Combine aerial and land imagery with written survey data to evaluate conservation protocols.

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, ArcGIS Online, ArcGIS Enterprise, ArcGIS SiteScan, ArcGIS Reality Studio, R/RStudio, Pix4D, JavaScript (Three.js), HTML, CSS, React Three Fiber, Python, Blender, Git, Advanced VBA programming and Excel User Interface development, operation of DJI, Skydio, & Parrot drones

activities

Virginia Tech Autonomous Aerial Vehicles | Autopilot group

National Champion, DI-AA National Collegiate Rugby | Virginia Tech, 2021

Capital Athletic Conference Champion, NCAA DIII Soccer | University of Mary Washington, 2019