

# Anthony F. Pappas, CF

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## PROFESSIONAL PROFILE

Strategic natural resources manager and Certified Forester with over a decade of experience across 20+ states. Expert in "Data-to-Ground" solutions, integrating advanced geospatial technology and forest carbon strategy with on-the-ground ecological restoration to maximize timber value, secure long-term sustainability, and optimize financial returns for private and industrial landowners.

## CORE COMPETENCIES

- **Bayesian & Random Forest Modeling:** Technical repertoire includes training MaxEnt or Random Forest models with massive datasets (e.g., GBIF, FIA) to spatially analyze changes in carbon sequestration under different management scenarios.
- **Forest Carbon Markets:** Expertise in IFM (Improved Forest Management) and ARR (Afforestation, Reforestation, and Revegetation) project sales and administration.
- **Forest Vegetation Simulator (FVS):** Employing the U.S. Forest Service's FVS to project forest growth, including diameter at breast height (DBH), height, and species, over multiple time scales. This allows for the robust quantification of future Aboveground Biomass (AGB) and carbon stocks.
- **Geospatial & AI Modeling:** Establishing a technology arm to integrate LiDAR mapping, hyperspectral imaging, and AI-enabled machine learning to analyze terrain and vegetation. These tools are used to predict carbon storage across landscapes by modeling variables like soil characteristics, elevation, and slope.
- **Geospatial & Remote Sensing:** LiDAR mapping, hyperspectral imaging, drone surveys (NDVI), and AI-enabled machine learning for terrain and vegetation assessments.

## EDUCATION (all at West Virginia University)

- Pursuing an M.S. in Forestry with a Graduate Certificate in GIS and Spatial Analysis; Expected Dec. 2026
- B.S. in Forestry, *Magna Cum Laude*; May 2016

## CERTIFICATIONS/LICENSURE

- Arkansas Registered Forester
- Society of American Foresters Certified Forester
- USDA NRCS Technical Service Provider
- West Virginia Registered Forester

## WORK EXPERIENCE

- **Heritage Habitat & Forestry, LLC, Heritage Ecosystem Partners, HH&F Geospatial & Data Solutions**  
Centerburg, OH; August 2020 – present
  - Owner, Lead Consultant
    - As the founder and Lead Consultant of an integrated environmental services group, I direct a "Data-to-Ground" platform that harmonizes the high-level strategy of **Heritage Ecosystem Partners**, the advanced analytical power of **HH&F Geospatial & Data Solutions**, and the technical implementation of **Heritage Habitat & Forestry, LLC**.
    - Leading this multi-divisional organization, I oversee carbon project development and advisement for over 300 landowners, providing critical validation and verification services for top global carbon developers through precise plot installation and longitudinal monitoring. To drive these efforts, I established our specialized technology arm to leverage LiDAR mapping, hyperspectral imaging, and AI-enabled machine learning, delivering high-resolution terrain and vegetation assessments that maximize timber value and ecological health. This sophisticated data is then translated into action by our implementation team, where I have managed sustainable timber operations and forest management planning for more than 500 private landowners across 20+ states, resulting in massive tax reductions and securing long-term forest sustainability.