

# Brendon Lalman

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## Education

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<b>University of Florida</b>	Gainesville, FL
<b>M.S. Forest Resources and Conservation - Geographic Information Systems</b> GPA [4.00/4.00]	May 2024
Thesis - Facilitating Private Landowner Involvement in Voluntary Carbon Markets: A Framework for Forest Carbon Sequestration	
<b>University of Florida</b>	Gainesville, FL
<b>B.S. Forest Resources and Conservation - Protected Areas Management</b> GPA [3.74/4.00]	Aug 2022
Cum Laude	
Capstone - Temporal Dynamics of Forest Disturbance and Recovery in the Cascades Ecoregion using LandTrendr Algorithms	

## Work Experience

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<b>UF / IFAS – Ordway Swisher Biological Station</b>	Melrose, FL
<b>Biometrician</b>	Jan 2023 – Current
<ul style="list-style-type: none"><li>▪ Pilot the GatorEye XL to capture hyperspectral and lidar data for tree species mapping and carbon stock assessment, interpreting remote sensing data to digitize tree crown compositions, by processing point clouds in TerraScan and Pix4D</li><li>▪ Extract forest structure metrics critical for forest growth and yield modeling throughout 9600+ acres by managing biometric data collection through extensive fieldwork, routing 3 field technicians to target trees within the tract to measure height and DBH</li></ul>	
<b>Evairi GIS Consulting</b>	Hollywood, FL
<b>GIS Analyst</b>	Sep 2022 – Dec 2022
<ul style="list-style-type: none"><li>▪ Integrated datasets into geodatabases using R Studio for data processing and JMP for statistical analysis, enabling field auditors and stakeholders to visualize asset locations from ground TLS collection pre- and post-hurricane along Florida’s Atlantic coastline</li><li>▪ Performed GHG accounting associated with forest change through historical land cover classifications using optical and radar data sets under VCS AFOLU methodologies.</li></ul>	
<b>NASA – DEVELOP</b>	Greenbelt, MD
<b>Developer – Internship</b>	Jun 2022 – Aug 2022
<ul style="list-style-type: none"><li>▪ Assessed land conversion impacts on chemical and physical properties of soil within the Tierras Bajas region of Santa Cruz, Bolivia to restore soil organic carbon levels by 0.61% via sustainable agroforestry practices in collaboration with Mercy Corps</li><li>▪ Utilized GEE for remote sensing applications, integrating tool scripts to merge multi-spectral data with vegetation indices to run time series analyses to examine deforestation trends, decreasing data processing time by 33%</li></ul>	
<b>UF / IFAS – Analytical Services Lab</b>	Gainesville, FL
<b>Soil Scientist</b>	Aug 2021 – May 2022
<ul style="list-style-type: none"><li>▪ Designed soil and water sample plans alongside county extension agents across Florida to test their attributes and nutrients to evaluate irrigation systems of 30+ residential homes and 10+ commercial farms</li><li>▪ Executed livestock waste analysis to effectively test the levels of N, NH4-N, P, K, and pH, resulting in a decrease of fertilizer cost by 4% and runoff by 9% on average for farms</li></ul>	
<b>UF / IFAS – Austin Cary Forest</b>	Gainesville, FL
<b>Forest Technician</b>	Aug 2020 – May 2022
<ul style="list-style-type: none"><li>▪ Conducted inventory analysis on 2080+ acres of mixed pine/hardwood tracts via timber cruising, leveraging FVS for growth and yield models with 91% accuracy to develop sustainable forest management plans subsidized through strategic timber harvests</li><li>▪ Defined 68+ square miles of boundaries through Hatchet Creek using the ESRI suite for plot layout and data collection, applying Random Forest Algorithm for land cover classification to catalog 50+ ecological features, from firebreaks to invasive species</li></ul>	
<b>UF / IFAS – Molluscan Shellfish Aquaculture and Restoration Lab</b>	Gainesville, FL
<b>Lab Technician – Internship</b>	May 2020 – Aug 2021
<ul style="list-style-type: none"><li>▪ Managed aquaculture for the production of molluscan shellfish through selective breeding and cryopreservation of germplasm, enhancing genetic diversity of stock over 3 generations</li><li>▪ Configured Wet Lab with biofilters and protein skimmers for individual tank isolation or sequential water flow to optimize the cultivation of 15+ gallons of algae daily supporting the dietary needs of 12,000+ shellfish</li></ul>	
<b>Delta Upsilon Fraternity (ΔΥ)</b>	Gainesville, FL
<b>President</b>	Aug 2019 – Aug 2021
<ul style="list-style-type: none"><li>▪ Spearheaded financial management and oversight of 190+ chapter members and funds exceeding \$2,400,000 annually, collaborating with stakeholders to enhance transparency and ethical allocation in strategic financial planning by upholding a GL and AR, resulting in a 23% decrease in overhead expenses and an 8% increase in budget through recruitment and fundraising</li></ul>	

## Skills

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**Licenses and Certifications:** FAA Remote Pilot Certification, Firefighter Type 2 Certification, PADI Scuba Diving Certification  
**Technical:** GIS, Remote Sensing, Ecology, Dendrology, Pathology, Field Operations, Fire Management, Carbon Modeling, Aquaculture, Cryopreservation, Programming, Machine Learning, Environmental Monitoring, Data Analysis and Visualization