

Kyle Steen

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Work Experience

USDA-ARS sUAS Operator and Remote Sensing Analyst | *Tifton, Georgia* *Summer 2023*

- Operated a Terraview RangePro X8 sUAS in accordance with mission protocol
- Captured multispectral imagery from the UAS using a MicaSense-MX Dual Camera System
- Reprocessed multispectral imagery from 2018 & 2019 using Pix4D Mapper
- Provided GIS and Remote Sensing assistance to colleagues whenever technical issues emerged

NASA DEVELOP GA Project Lead | *Athens, Georgia* *Summer 2022*

- Lead the team to program a model using Google Earth Engine's JavaScript API to identify aspen stands in Yellowstone National Park through a random forest classification and phenological approach
- Produced over 30 maps in ArcGIS Pro detailing the spatial extent of Aspen stands from 1986 to 2019
- Engaged in a poster presentation session at NASA's Federal Headquarters discussing the team's results

NASA DEVELOP MSFC Team Member | *Huntsville, Alabama (Virtual)* *Spring 2022*

- Collaborated with the team lead to produce an updated landcover map of the Okefenokee swamp
- Analyzed Sentinel-1 data to produce change detection maps depicting water level fluctuations
- Conceptualized and wrote the GIS methodology for the landcover and water level analysis.

State Botanical Garden of Georgia | *Athens, Georgia* *March 2021 – December 2021*

- Mapped the individual gardens, garden beds, artwork / monuments, and irrigation & electric lines

Education

University of Georgia | *Athens, Georgia* | **GPA 3.95** *Fall 2022 – Spring 2024 (Expected)*

- ❖ Master of Science in Geography

University of Georgia | *Athens, Georgia* | **GPA 3.72 – Cum Laude** *Fall 2019 – Fall 2021*

- ❖ Bachelor of Science in Ecology | Minor in Geography | Certificate in Geographical Information Science

Awards & Acknowledgements

Vice President of ASPRS UGA Chapter *Fall 2022 - Current*

GIS Day Organizing Committee Co-Chair – University of Georgia *Fall 2021 & Fall 2022*

LxL Student Coordinator for Mapping into the Future team at the State Botanical Garden of Georgia *Fall 2021*

Recipient of the UGA Arch Ready Professionalism Certificate *Fall 2021*

Skills & Certifications

FAA Certified Part 107 sUAS Pilot | EASA UAS A1 / A3 Open Category Certification

Agisoft Metashape | ArcGIS Pro | ArcGIS Online | ArcPy | Drone Mapping | ERDAS IMAGINE | ENVI | GIS

Google Earth Engine | JavaScript | Machine Learning | Pix4D | Python | R Studio | Remote Sensing | Scikit-Learn