

Jackson Ezzell

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EDUCATION

Florida State University

Tallahassee, FL

Bachelors of Science in Meteorology

Jan. 2021 – May 2024

- Courses: Meteorological Computations, Atmospheric Thermodynamics, Atmospheric Dynamics, Applied Statistical Methods, Weather Broadcasting

South Dakota Mines

Rapid City, SD

Masters of Science in Atmospheric & Environmental Sciences

Aug. 2024 – May 2026 | GPA: 4.00

- Courses: Wildfire Environment, Watershed Hydrology, Air Quality, Boundary Layer, Numerical Weather Prediction, Mesoscale Meteorology, Radar Meteorology

PROJECTS

Water Availability Modeling with Thornthwaite | *R, Climate Data Analysis*

Mar. 2025 – Present

- Master's thesis developing temperature- and precipitation-driven models to quantify PET and key water-budget variables across diverse U.S. basins, linking atmospheric variability to hydrologic response.
- Integrating LOCA2 downscaled CMIP6 climate data and NCEI observations to evaluate regional variability and improve model performance for long-term forecasting.
- Planning to incorporate observed streamflow data to evaluate model performance and expand future water availability projections under changing climate scenarios.

Crop Water Stress Index (CWSI) Modeling | *Python, MATLAB, Remote Sensing*

Oct. 2024 – May 2025

- Modeled water stress using Landsat-8 imagery and custom energy-balance workflows in MATLAB and Python.
- Derived vegetation indices (NDVI, OSAVI) and computed fluxes and stress indices from satellite data.
- Evaluated model performance through statistical regression and sensitivity analysis.

EXPERIENCE

Soil/Vegetation Scientist Intern

May 2025 – Dec. 2025

WSP US

Albuquerque, NM/Remote

- Worked on the Mine Closure & Reclamation team, conducting vegetation and rare-plant surveys to support environmental monitoring and closure planning.
- Installed, calibrated, and maintained soil-moisture instrumentation (FDR sensors, vadose-zone monitoring systems) to evaluate site hydrologic conditions.
- Streamlined climate-data management and reporting by developing R scripts that processed large .dat files and automated table and graph generation.

Emergency Management Specialist

May 2024 – Apr. 2025

WSP US

Tallahassee, FL/Remote

- Support disaster response operations across CONUS through logistics, supply management, cost documentation, and resource coordination.
- Deploy to Emergency Field Staging Areas to assist with disaster preparation, active response, and post-disaster recovery efforts.
- Maintain operational readiness by completing ongoing training and contributing to effective client service during emergencies.

Student Meteorologist

Oct. 2022 – May 2024

FSU Weather

Tallahassee, FL

- Delivered live weather forecasts on a student-run YouTube broadcast airing five days per week during fall and spring semesters.
- Developed on-air presentation, communication, and forecasting skills in a real-time broadcasting environment.
- Provided accurate, timely weather updates as a resource for the Florida State University campus community.

TECHNICAL SKILLS

Skills: Python, R, MATLAB, QGIS, ArcGIS, HEC-HMS, WRF, NEXRAD, Google Earth Engine, MS Suites, Linux/Unix, Data Processing, Remote Sensing, Climate & Hydrologic Modeling

Certifications: Emergency Management (FSU), MSHA (WSP), OSHA 10-hour, HAZWOPER (OSHA)