Lauren R. Burge

Education

UNIVERSITY OF OKLAHOMA ENROLLED STUDENT BEGINNING FALL 2025

- Major: Meteorology
- Minor: Aviation Management
- GPA: 3.92

SALEM COMMUNITY HIGH SCHOOL | MAY 2025 GRADUATE

- GPA: 4.74/4.00 SAT: 1520
- Class Rank: 1/156

Technical Skills

- Python & Java Coursework
- ArcGIS Pro Experience

Work Experience

REGIONAL HYDROCLIMATE ANALYSIS AND MODELING LAB | UNDERGRADUATE RESEARCHER

- Mentored Research Project under Dr. Xiaodong Chen
- Atmospheric Conditions that Impact Lake-Effect and Synoptic-Scale Snowfall Intensity Within the Great Lakes Region
    - Writing and usage of a Python time-series analysis to extract meteorological variables from CONUS404 reanalysis dataset
    - Technical experience using Python tools to analyze meteorological data
    - Experience using Artificial Intelligence for research support and debugging of Python code
    - Developing a research paper and presentation; abstract selected for poster presentation at the 2027 American Meteorological Society Student Conference

Field Related Experience

- Friends & Partners in Aviation Weather Charter Student Steering Committee Member
- Friends & Partners in Aviation Weather Member
- Atmospheric River Reconnaissance Meteorological Balloon Launch Undergraduate Assistant
- Skywarn Certified Storm Spotter
- Oklahoma Weather Lab Shift Leader
    - Co-leader of weekly forecasting production and group presentation
    - Communication of forecasting skills and tools to other students within the School of Meteorology

Activities & Accomplishments

- University of Oklahoma President's List
- University of Oklahoma Student Chapter of the American Meteorological Society & National Weather Association
- University of Oklahoma Tennis Club
- Alpha Sigma Kappa – Women in Technical Studies Sorority
    - Social Media Chair
- Illinois State Seal of Biliteracy in Spanish
- National Merit Commended Scholar