

WENJIE ZHAO

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EDUCATION

UNIVERSITY OF ILLINOIS

M.S. in Geographic Information Science
Illinois Professional Science Master's Concentration

Urbana-Champaign, IL
Candidate, December 2024

YANGZHOU UNIVERSITY

B.S. Resource and Environmental Science

Yangzhou, China
June 2023

UNIVERSITY OF NORTH ALABAMA

B.S. Geographic Information Science

Florence, Alabama
June 2023
3.34/4.0

EXPERIENCE

UNIVERSITY OF NORTH ALABAMA

Class Project Participant

Florence, Alabama
August 2022 - December 2022

- Used ArcGIS Pro to analyze changes in urban footprint in Atlanta from 2016 to 2019
- Identified areas of commercial development, accounting for 55.1% in different classifications and 11.3% in total counts of pixels
- Classified Sentinel-2 images using Imagery Classification Wizard based on Support Vector Machine (SVM) and demonstrated area changes in the Human Settlement Index

Class Project Participant

January 2021 - May 2022

- Extracted and reclassified data, buffer zones creation, mask extraction, and quantitative assessment in ArcGIS Pro to research tornado damage (December 2021)
- Studied the impact on land cover in a particular area and discovered vegetation suffered the most, accounting for 45.6%

Class Project Participant

August 2021 - December 2021

- Created a model to locate urgent wildfires (California) and programmed a toolbox in Python to select targeted wildfires
- Calculated the burn severity of vegetation after California wildfires (2016 - 2021)
- Assessed damage of wildfires in the West Arnhem Region and Kakadu National Park
- Used Landsat 8 images to analyze NDVI and vegetation changes and recommended preventative and safety measures in the event of future wildfires

ADDITIONAL

- Language Skills: Chinese (native), English (full professional proficiency), Japanese (intermediate), Korean (beginner), German (intermediate)
- Computer Programs: Python (intermediate), ArcGIS Pro (advanced), ArcGIS (advanced), ArcMap (advanced), Erdas Imagine (advanced), Google Earth (advanced)
- Relevant Coursework: remote sensing, quantitative methods in geography, GIS programming, cartography and visualization, web GIS, cyberGIS, business fundamentals
- Dean's List, University of North Alabama, 2021-2022
- Conference Presentation, "Change Detection of Urban Footprint from 2016 to 2019 in Atlanta, GA," SEDAAG, Atlanta, GA (November 2022)