



EDUCATION

Michigan State University, Bachelor of Science, Geographic Information Science and Cartography

December 2019

Minor in Mathematics and Economics

WORK EXPERIENCE

GIS Analyst and GIS Developer

2020-2023

Hydrosimulatics, Inc

- Process water wells data and classify lithologic materials (Boreholes lithology) using QGIS and Python
- Calculate borehole thickness of lithologic materials using Python scripts\QGIS
- Update vector features of water wells using QGIS as main GIS software
- Check python dependencies for Spatial Analysis and stats
- Process HRU data using SWAT (Soil Water Assessment tool) \QGIS and DEM tiles
- Build a web mapping services web application to provide environmental georeferenced data around the world
- Manipulate and extract web mapping service data (web map services, web feature services and web coverage services)

Undergraduate GIS Research Assistant

Summer 2019

Landscape Ecology & Ecosystem Science Lab

- Processed and orthorectified Ortho mosaic sub-watershed historical imagery to use them for land use and land cover classification. The primary software I used as Undergraduate GIS Research Assistant for orthorectification of historical aerial photos of sub-watersheds are Pix4D and ArcGIS software
- Classified Land cover/use Kalamazoo Watershed by using eCognition as primary GIS software
- Georeferenced and Converted more than 400 historical images into grayscale by using python script and Irfan view and Geo Setter to use to create raster mosaic
- Assisted in the maintenance of more than seven radiation towers in crops field to measure albedo and monitor crop health
- Used a GPS device in the field to walk across the vegetated field and to identify more than 30 plots for data collection
- Collected data on the height of vegetation, leaf area index, soil moisture, and nitrogen of biofuel crops to understand the active photosynthetic area of plants, and measure for soil moisture

Enrollment Assistant/Orientation Leader

Fall 2017

MSU Academic Orientation Program

- Helped over 100 incoming students enroll in classes
- Answered questions related to class options and class availability, and helped students create academic schedules
- Completed data entry for each student academic profile
- Provided a welcoming environment for incoming students

Residential Assistant

2018-2019

MSU Residential and Housing Services

- Helped to lead general maintenance and general upkeep of the building
- Worked collaboratively with the team to ensure we meet the health and safety standards of the building
- Oversaw grounds keeping teamwork duties to ensure work gets done timely and in an effective manner

PROJECTS



- Global web mapping service web application – data visualization and data extraction  
2021-Current
  - Orthorectification of historical aerial photos for four sub-watersheds within the Kalamazoo Watershed.
  - Land Cover/Use Classification of Kalamazoo Watershed based on Object-Based Classification.
  - Sonangol Full Ride Scholarship, Fall 2014
  - MSU Dean's List
- Spring 2016 to Fall 2019

**SKILLS AND ABILITIES**

- GIS and Remote Sensing Software (ArcMap, QGIS, eCognition, Pix4D)
- SQL & NoSQL Database Management (PostGIS, MySQL, Firebase)
- Web and Desktop\Mobile Application development (Python, CSS, HTML, JS, TS, Angular Framework)
- R & RStudio Language
- Mathematics and Geostatistics\Statistic
- First language Portuguese
- Second language English

**AWARD & SCHOLARSHIP**

- Outstanding Performance Award - English Program at MSU
  - Sonangol Full Ride Scholarship, Fall 2014
  - MSU Dean's List
- Spring 2016 to Fall 2019

**ORGANIZATIONS & EXTRACURRICULARS**

- The National Society College Scholars, Member 2017
- SLA, Member 2017
- Ango Spartan Student Association, Member 2018