

AUDREY JO

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Dates available for internship: January 2021 - July 2021

EDUCATION

Northeastern University, Boston (NEU) January 2020 – May 2023 (approx.)
Master of Arts, Computer Science

California State University, Long Beach (CSULB) January 2014 – January 2016
Master of Arts, Geography

University of North Carolina, Chapel Hill (UNC-CH) August 2010 – December 2013
Bachelor of Arts, Geography

WORK EXPERIENCE

GIS Analyst, DCSE, Inc. March 2017 – April 2019

- Developed indoors navigation for an airport using ArcGIS Indoors and FME
- Developed Operations Dashboards, Web AppBuilder Apps, and CityEngine Apps for local agencies to automate their workflows in the office and out in the field
- Tested and edited open source Web AppBuilder widgets for a local agency to connect their workflows in the office and out on the field
- Converted 2D datasets into 3D and created 3D Web AppBuilder Apps for an airport using Esri CityEngine
- Created network datasets for Web AppBuilder widgets and for indoors navigation using Network Analyst extension for ArcGIS
- Edited batch scripts and Python scripts to run an automated program that takes satellite imagery and outputs vegetation indices evapotranspiration maps for precision agriculture
- Wrote Python scripts to automate data clean up, satellite imagery download, satellite imagery processing, and QA/QC of resulting data

Graduate Research Assistant, CSULB January 2014 – October 2015

- Creating geoprocessing task automation scripts using Python
- Creating and analyzing maps using datasets with different spatial and temporal resolutions
- Classifying burned areas in Landsat image using ENVI
- Presenting at the Association of American Geographers Annual Meeting for 2015

Cartographic Research Assistant, UNC-CH August 2013 – December 2013

- Editing shapefile features and attribute tables
- Writing Python script to join csv files to an attribute table for a shapefile

GIS Research Intern, CSULB June 2013

- Building data dictionary and exporting GPS data on a Trimble GPS
 - Classifying vegetation using object-based image analysis method (eCognition)
 - Building 3D model of study area using quadcopter photos (PhotoScan)
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PROJECTS

Degree Requirements Web App, NEU

July, 2020 - Present

- Developed indoors navigation for an airport using ArcGIS Indoors and FME
- Built a degree requirements web app to assist course planning for Northeastern students
- Recruited a fellow student to help design and implement the front-end for the app
- Developed the back-end component of the app

Conference Web App for amplification research, NEU

July, 2020 - September, 2020

- Collaborated with Dr. Adrienne Slaughter and a team of 4 to create a video conference web app for a remote study about the effect of amplification on allyship
- Implemented the back-end architecture for the app using Spring Boot in Java and MySQL database

Shopper Data Generator with API, NEU

May, 2020 – August, 2020

- Collaborated with a team of 3 to produce a data generator for producing mock shopper behavior data to predict shopper behavior given various conditions, such as store events and weather
- Stored the generated shopper behavior data in a MongoDB database
- Designed a REST API to access and query the shopper data using the flask and rest-plus modules in Python

Easy Animator, NEU

March, 2020 – April, 2020

- Created an animator that converts a text file into an SVG file or plays an animation using Java and the Swing library in Java

PUBLICATION

Laris, P., **Jo, A.**, Wechsler, S., and Dadashi, S. 2018. The Effects of Landscape Pattern and Vegetation Type on the Fire Regime of a Mesic Savanna in Mali. *Journal of Environmental Management*. 227:134-145.

Laris, P., Dadashi, S., **Jo, A.** & Wechsler, S. 2016. Buffering the savanna: Fire regimes and disequilibrium ecology in West Africa. *Plant Ecology* 217: 583–596.

Laris, P., Caillault, S., Dadashi, S. and **Jo, A.** 2015. Buffering the savanna: the human ecology and geography of burning in an unstable environment. *Journal of Ethnobiology* 35(1):111-139.
