

Tarik Anwar

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Portfolio website: https://tarikchristopheranwar.github.io/Personal_Website/index.html

EXPERIENCE

GIS Research Assistant (Full Time Remote, Currently in Durham, NC) January 2020-Present
Ingenium Professional Services, INC Oak Ridge, TN

- Contracted by the Remote Sensing Group at Oak Ridge National Lab in order to perfect a building/road feature detection algorithm from satellite images.
- Significantly improve the machine learning algorithm by meticulously digitizing on a pixel level thousands of individual buildings and roads from all over the world.
- Individually write a python script that reduced project workflow time by automatically generating set amounts of shapefiles with corresponding names in bulk.
- Lead manual QA/QC of hundreds of vector and raster samples in order to increase the algorithm accuracy.

Outreach Coordinator/CAC AmeriCorps Member January-December 2019 (Contract)
City of Knoxville's Office of Sustainability Knoxville, TN

- Performed data entry, quality assurance, and analysis on municipal utility data for 120 sites with 70,000+ records in total.
- Generated GIS maps displaying areas of high electric scooter activity around the city for targeted safety outreach purposes by projecting 11,000+ individual trips from user data.
- Spearheaded re-certification efforts for National Wildlife Federation wildlife habitat program through outreach initiatives that range from designing informative webpages, delivering presentations, and participating in local events through booths.
- Mentored and managed interns on a variety of projects.

Lab Student Research Assistant August 2016-May 2017
Lab of Dr. Van Bael (Tropical endophytes/Coastal ecology) New Orleans, LA
Tulane University

- Acted as a primary assistant to one of the lab's main projects linked to studying endophyte characteristics.
- Completed lab procedures such as DNA extractions, PCR, and gel electrophoresis in order to quantify abundance and diversity of specimens.
- Advised other volunteers on how to master sterile microbial laboratory techniques.
- Organized samples and kept results of experiments up to date across spreadsheets.

Water Quality/GIS Volunteer August-December 2017
Lake Pontchartrain Basin Foundation New Orleans, LA
Tulane University

- Conducted water sampling around Lake Pontchartrain in order to generate data needed for GIS analysis.
 - Produced 12 intricate GIS maps analyzing salinity, dissolved oxygen, pH, and fecal coliform levels in order to evaluate the overall health of Lake Pontchartrain.
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SKILLS

Software: ArcGIS Suite, QGIS, Microsoft Office Suite, Tableau, Github/GIT.

Coding: Python, SQL, HTML, CSS, Javascript.

Databases: Access, PostgreSQL, PostGIS.

Languages: English and French (Bilingual), Spanish (Professional Working Proficiency).

EDUCATION

Bachelor of Science: Ecology and Evolutionary Biology May 2018
Minor: Public Health GPA: 3.42 Tulane University, New Orleans, LA