

Tarik J. Brown II

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EDUCATION

Texas A&M University

Master of Science Geography

B.S. Geographic Information Science & Technology

College Station, TX

September 2021 - Present

Received December 2020

Relevant Coursework: GIS Programming
Remote Sensing in Geoscience
Data Analysis in Geography
GIS in Urban Planning
GNSS in the Geosciences
Web GIS
Advanced GIS Practicum
Activities: Undergraduate Data Analysis Research
Student Geography Society
Texas A&M University Center and Special Events
Diversity Leadership Mentor
Southwestern Black Student Leadership Conference Staff

SKILLS

Remote Sensing, Python, R, Digital Mapping, Cartographic Design, Satellite Imagery and Mapping, GeoJSON, HTML, JavaScript, Information Software, Linear Programming, Team Management, Public Speaking, Presentation

EXPERIENCE

Texas A&M Research

College Station, TX

Cellular aGPS and RTK 3D Mapping

Feb 2019 – May 2019

- Comparing the accuracy of the coordinate system of Real Time Kinematic GPS to that of aGPS found in the modern cell phone
- Using geolocation to observe which set of coordinates creates a more accurate 3D model using a Pix4D 3D map creator

Offshore Pipeline Routing

Sep 2019 – Dec 2019

- Researched and calculated the most acceptable locations to install an offshore oil pipe off the Gulf of Mexico
- Investigated economic implications of length, width, direction and location of pipeline route to determine the best and cheapest route
- Used raster data to improve decision making process of offshore pipeline route selection through ArcMap, ArcGIS Pro, and Python
- Adopted Least-Cost Path method by analyzing geospatial features, existing infrastructure, and construction constraints

Sustainability Model of the Atchafalaya Basin

Feb 2020 – April 2020

- Characterized the water and population systems using ArcGIS to evaluate stability and develop management solutions to improve sustainability over a period of time
- Evaluated temporal sustainability paired with given forcing factors of climate change and urban growth

Texas A&M University Center and Special Events

College Station, TX

Student Help Services

August 2017 – Present

- Direct medium for student inquiries regarding the university and its processes

University Representative

July 2019 – Present

- Work closely with diverse personalities to provide a safe experience on campus, while being a face of the university

Event Coordination and Supervision

August 2017 – Present

- Facilitated student organization meetings, organizational conferences, and banquets as well as coordinated room locations and permission to use the facility

Texas A&M GEAR Lab

College Station, TX

GIST Researcher & Technician

November 2020 – Present

- Utilizing and innovating geospatial technology to study the coupled human-environmental systems, feedbacks, and interactions
- Manipulating GIS data to visualize the changes in flood exposure and examine natural disaster risk with the use of multiple Esri software and python