

Marie C. Payne

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PROFESSIONAL SKILLS

Mastery of Microsoft (Word, Excel, PowerPoint) | Visual Basic for Applications, VBA
| Mac OSX | Python | ESRI ArcGIS | Model Builder | Landscape Analysis & Modelling | Environmental GIS | Data
Management | Database Management | SQL | GIS Programming | Data Analysis | Terrain Modelling

RELEVANT WORK EXPERIENCE

Center on Conflict and Development – College Station, TX
Geospatial Analyst / GIS Analyst - (40 hours/ week)

May 2019 – July 2020

- Generated over 50 custom, informative ESRI ArcGIS spatial analysis maps and analytical reports for client presentations by integrating modern cartographic standards
- Directed a team of 3 to acquire, manipulate, and organize 3,000+ data files through batch scripting, minimizing expected processing time by 800%
- Developed functional and relational databases to inform action plans crafted by the team for project lasting 3 years

Strategic Analysis Lab – College Station, TX
GIS Technician - (40 hours/ week)

February 2019 – May 2019

- Produced high quality informative maps using 2000+ GPS encoded data points to manipulate shapefiles and raster images
- Corresponded with clients weekly and drafted deliverables to optimize clarity and communication
- Refined analysis of 4 environmental factors, revising expectations and improving quality of deliverables
- Composed a final report analyzing data accuracy, integration technique, and spatial distribution of key features

RELEVANT PROJECTS

Multi-Factorial Analysis Of Prime Neighborhoods In The Houston-Galveston Area

- Created a Model Builder data system for information management and multi-variable input analysis of 13 geospatial factors

Potential Windfarm Locations in South Texas

- Optimized potential windfarm locations by scripting a model of geometric design and manipulating aerial imagery to reflect terrain limitations producing 1 suggested site of prime land

Butterfly Project

- Modeled terrain using geospatial data, LIDAR, and raster files to accurately pinpoint 2 locations for a butterfly way-station
- Created an end-user manuscript on the development of the geospatial analysis model used

ACTIVITIES

The Coffee House – Non-Profit Organization

Spring 2019

National Association of Environmental Professionals – Non-Profit Organization

September 2015 – May 2017

Habitat for Humanity - Non-Profit Organization

August 2015 – May 2016

EDUCATION & CERTIFICATIONS

Master of Natural Resource – Texas A&M University, College Station

2018- May 2020

Certified in Geographic Information Science

Bachelor of Science in Bioenvironmental Studies– Texas A&M University

May 2014 – December 2017

Minor in Environmental Soil Science

AWARDS AND HONORS

Distinguished Student Award

May 2017

3rd Place Poster, BESC High Impact Learning Experience Annual Symposium

October 2016

LANGUAGE COMPETENCIES

English: native language | Spanish: fluent , common and technical(speaking, reading, writing)