

TREVOR GRAYSON

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CAREER OBJECTIVE

I am an outgoing senior attending the University of Wisconsin-Madison strongly determined to find an entry level GIS position where I can utilize my diverse skillset to manage and analyze geospatial data, as well as create captivating maps with that data.

EDUCATION

Bachelor of Science Cartography and GIS, Geography
University of Wisconsin-Madison, Madison, WI

September 2015 - May 2019 - 3.2 GPA

I am studying Cartography and GIS, and Geography, with a strong interest in geographic data management and representation.

SKILLS

- High level of experience with ArcMap, ArcGIS Pro, ArcGIS Online, QGIS, PostgreSQL, ENVI, Adobe Illustrator and Photoshop, Wordpress
- High level of experience with Python specifically scripting using Arcpy
- Moderate level of experience with Javascript, HTML, and R

WORK EXPERIENCE

TDS Telecom, Madison, WI

GIS Mapping Intern, May 2018-Present

- Write python scripts focused around the ArcPy module for batch data input and editing, as well as to automate standardized map production
- Convert CAD documents into an Oracle based GIS database
- Review and update GIS data for QAQC purposes as well as utilizing the Data Reviewer extension to ensure quality data
- Database design to compile data from different sources into one common database

University of Wisconsin System Human Resources, Madison, WI

Student Help, May 2017 – May 2018

- Assisted GIS specialist in another department to standardize map templates and symbols within layer files
- Manage files for incoming and current employees from all over the state
- Update our department's websites daily using Wordpress
- Assist with creating and collecting data from online surveys

CLASSWORK SKILLS/PROJECTS

- Python scripting to perform a variety of tasks; Vector and raster editing/management with GDAL/OGR, simple data conversion scripts utilizing Pandas, tweet collection and geographic visualization with tweepy, and gaining an overall understanding of how to read and use API documentation
- Suitable habitat selection for Sandhill Cranes in Door County, Wisconsin by collecting land cover, parcel, and habitat needs data from various sources, as well as utilizing Fragstats to select suitable habitat protection areas
- Disaster relief analysis with data from Hurricane Katrina, finding areas which received the most rainfall and were in the most direct path of the hurricane, to identify neighborhoods that would be projected to need the most emergency support
- Capstone project which detailed a flood analysis of certain parks in Madison, Wisconsin which involved processing a high resolution DEM with the ArcHydro toolset, and combining it with drone imagery to understand how flooding would affect the areas
- Advanced spatial analysis with tools and methods such as point pattern analysis and kriging to better understand spatial autocorrelation between features, along with understanding output semivariograms
- Thorough understanding of remote sensing techniques such as supervised and unsupervised classification with support vector machines and maximum likelihood classifiers, change detection, and how to perform accuracy assessments after these processes
- Digitize scanned maps, trace and classify land type polygons, roads, and rivers, as well as perform optimal site selection from given criteria
- Database design and visualization for spatially mobile phenomena to understand the extent and mobility of that phenomena