

OLIVIA SCALORA

GEOSPATIAL DATA ANALYST

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oliviascalora.github.io/Portfolio

EDUCATION

Master of Urban Spatial Analytics

University of Pennsylvania | 2022

Relevant Courses:

- Public Policy Analytics
- Environmental GIS Modelling
- Raster GIS
- Geospatial Cloud Computing
- Spatial Statistics and Data Analysis

Bachelor of Fine Arts Architectural Design

Maryland Institute College of Art 2018

TECHNICAL SKILLS

Data Management

Git/Github, SQL/PostgreSQL, Google Cloud Platform, Airflow

Data Analytics

Excel, Python, R, ArcMap/ArcGIS, ArcGIS Online, AutoCAD

Data Visualization

HTML, CSS, JavaScript, Leaflet, Jupyter Notebook, R Markdown

EXPERIENCE

Architectural Designer | May 2021 - June 2023

Architectural Concepts, Exton, Pennsylvania

- Streamlined design team efficiency by utilizing AutoCAD and Sketchup, completing 24+ client designs via drafting and 3D modeling.
- Collaborated with project architect on 30+ projects from schematic through construction administration phases.
- Conducted site surveys and field investigations to draft background drawings for renovations and tenant fit-outs.
- Completed 10+ full sets of construction documents for residential, commercial, and office designs for use by engineers and contractors.

PROJECTS

Employee Turnover Intelligence System Analysis

Spring 2022

Musa Practicum | Guilford County, North Carolina

- Provided geospatial data support to 8+ members of Guilford County Human Resources and Data teams.
- Developed an intelligence system highlighting voluntary employee turnover risk factors.
- Cleaned and prepared 1000+ geospatial data observations from 20+ years for machine learning in R Studio.
- Produced interactive maps of geo-referenced data using JavaScript.
- Built a dashboard displaying employee turnover trends and predictions using HTML, CSS, and JavaScript.

Opioid Overdose Risk Prevention Analysis

December 2021

Public Policy Analytics | University of Pennsylvania

- Collaborated with a team to analyze Mesa, Arizona's geojson datasets, uncovering key insights into 2018 opioid overdose incidents.
- Used fishnet geometry to identify and analyze clustering patterns of opioid overdoses.
- Developed a Poisson Regression model with a 0.13 MAE, using significant features and leave-one-group-out cross-validation.