

# OLIVIA SCALORA

GEOSPATIAL DATA ANALYST | GIS PROFESSIONAL

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oliviascalora.github.io/Portfolio

## EDUCATION

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### **Master of Urban Spatial Analytics** | 2022

*University of Pennsylvania*

Relevant Courses: Public Policy Analytics, Environmental GIS Modelling, Raster GIS, Javascript Programming, Geospatial Cloud Computing & Visualization, Spatial Statistics and Data Analysis.

### **Architectural Design, B.F.A** | 2018

*Maryland Institute College of Art*

## EXPERIENCE

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### **Architectural Designer** | May 2021 - Present

*Architectural Concepts, Exton, PA*

- Streamlined design team efficiency by utilizing AutoCAD and Sketchup, completing 24+ client designs via drafting and 3D modeling, resulting in a 15% reduction in project completion time and increased client satisfaction.
- Collaborated with project architect on 30+ projects from schematic through construction documentation phases.
- Perform existing conditions site surveys and field investigations to draft background drawings for owner renovation and tenant fit out projects.
- Completed over 10 full sets of construction documents for residential, commercial and office designs for use by engineer consultants and general contractors.

### **MUSA Practicum** | Spring 2022

*Human Resources Employee Turnover Intelligence System | Guilford County, NC*

- Provided geospatial support to 8+ members of Guilford County, NC Human Resources and Data teams to produce an intelligence system which highlighted risk factors for voluntary employee turnover.
- Created and maintained 50+ tables of geospatial and temporal data, ensuring data quality and accessibility for future use by Guilford County HR staff.
- Cleaned, joined and prepared 1000+ observations of sensitive Human Resource data from 20+ years for machine learning processing using R Studio.
- Produced interactive maps of geo-referenced data using JavaScript to analyze the effect of commute distance and duration on county employee tenure.
- Built a dashboard application using HTML, CSS and JavaScript to display county and department level trends and predictions for employee turnover with the results of the predictive model.

### **Opioid Overdose Risk Prevention Analysis** | December 2021

*Public Policy Analytics | University of Pennsylvania*

- Worked with a small team to successfully process and analyze geojson datasets through Mesa, Arizona's open data portal, providing crucial insights into the city's opioid overdose incidents in 2018
- Demonstrated advanced analytical skills by utilizing fishnet geometry across space to identify and analyze clustering patterns of opioid overdose incidents in the study area.
- Developed a robust Poisson Regression model with a Mean Absolute Error (MAE) of 0.13 by leveraging significant features and employing a leave-one-group-out cross-validation technique, demonstrating advanced data modeling capabilities.

## TECHNICAL SKILLS

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*Geospatial Analytics*

*Data Visualization*

*Data Management*

**Python, R, ArcMap/ArcGIS Pro, AutoCAD, Google Earth Engine**

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

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