OLIVIA SCALORA

GEOSPATIAL DATA ANALYST | GIS PROFESSIONAL

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EDUCATION

Architectural Design, B.F.A| *2018*
Maryland Institute College of Art

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.

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.

EXPERIENCE

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.

TECHNICAL SKILLS

Geospatial Analytics	**Python, R, ArcMap/ArcGIS Pro, AutoCAD, Google Earth Engine**
Data Visualization	**HTML, CSS, JavaScript, Leaflet, Jupyter Notebook, R Markdown**
Data Management	**Git/Github, SQL/PostgreSQL, Google Cloud Platform, Airflow**