OLIVIA SCALORA

oliviascalora@gmail.com

GEOSPATIAL DATA ANALYST | GIS PROFESSIONAL

(401) 339 6490

EDUCATION

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

PROJECTS

Human Resources Employee Turnover Intelligence System | *January 2022 - May 2022*
MUSA Practicum | *University of Pennsylvania*

• Produced an employee turnover intelligence system and corresponding web application for Guilford County, NC Human Resources Department
• Cleaned, joined and prepared sensitive Human Resources data for machine learning processes using R programming language
• Analyzed significant features of voluntary employee turnover and presented outstanding findings to guide targeted HR intervention programs
• Geocoded employee addresses for commute time and distance feature engineering
• Built a proof-of-concept dashboard application using HTML, CSS and JavaScript to display county and department level trends and predictions for employee turnover

Opioid Overdose Risk Prevention Analysis | *December 2021*
Public Policy Analytics | *University of Pennsylvania*

• Wrangled 2018 Mesa, Arizona geojson datasets through open data portal
• Utilized fishnet geometry across study area to accurately analyze clustering of overdose incidents in space
• Tested spatial process of opioid overdose incidents using local moran's I and identified significant overdose hotspot areas in Mesa, AZ in 2018
• Built a Poisson Regression model with a MAE of 0.13 using significant features and leave one group out cross validation

EXPERIENCE

Architectural Designer | *May 2021 - Present*
Architectural Concepts, Exton, PA

• Partnered with project architect on 20+ projects to hone drafting and design skills and improve overall industry knowledge
• 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
• Utilized AutoCAD and Sketchup to realize 24 client designs through drafting and rendering, improving design team efficiency by nearly 33%

TECHNICAL SKILLS

Geospatial Analytics	**Python, R, ArcMap/ArcGIS Pro, Google Earth Engine, QGIS, Raster GIS**
Data Visualization	**HTML, CSS, Javascript, Leaflet, Jupyter Notebooks, R Markdown**
Data Management	**Git/Github, SQL/PostgreSQL, Google Cloud Platform, Airflow, Docker**