Lantian Zhang

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EDUCATION

New York University — M.S. Urban Science and Informatics   2022.09 - Present, New York, N.Y.

Coursework: Applied Data Science, Machine Learning for Cities, Big Data Management, Urban Spatial Analytics.

Virginia Tech — Master of Architecture   2015.07 - 2017.12,   Blacksburg, Va.

Wuhan University — Bachelor of Architecture   2010.09 - 2015.06,   Wuhan, China

ACADEMIC PROJECTS

Rodent Complaints in NYC - Investigating the Factors that Contribute to Rodent Outbreaks

The project aims to identify the factors that contribute to higher rates of rodent complaints in New York City using a variety of datasets found on NYC Open Data including 311 complaints, restaurant inspections and sanitation complaints using machine learning classification and prediction approaches.

Flooding and Evacuation Analysis In Brooklyn

New York City has divided its coastal areas into 6 evacuation zones as well as designating a number of sites on City property as Hurricane Shelters. We are trying to find additional locations for Hurricane Shelters, and identifying bus stops and routes that need special attention.

Did NYC Open Street Make the Streets Unsafe?

This project aims to offer insight into whether Open Streets influenced street safety through spatial analysis, t-test, ks-test, and linear regression. Two datasets were used - collisions and parking violations.

Noise Pollution in NYC - Finding the Factors that Contribute to Disruptive Noise Exposure

The main objective is to predict noise complaints in New York City, identify the variables that most significantly influence noise complaints, and explore the spatio-temporal patterns by exploring noise complaint data from 311 service requests in New York City between 2021 and 2022.

SOFTWARE AND CODING SKILLS

Coding Languages: Python and C++
Packages and Libraries: Pandas, GeoPandas, Shapely, PySpark, Matplotlib
Software: ArcGIS Pro, QGIS, AutoCAD, Adobe Photoshop, Illustrator, Indesign, SketchUp, Rhino

PROFESSIONAL EXPERIENCE

DXA Studio Architecture — Intermediate Architect   2021.07 - 2023.01,   New York, N.Y.

ISTUDIO Architects — Architectural Designer   2020.07 - 2021.06, Washington, D.C.

Glave and Holmes Architecture — Intern Architect I   2018.01 - 2020.06,   Richmond, Va.

AWARDS AND ACHIEVEMENTS

Center for Urban Science and Progress Global Data Dive 2023

First Place - NYC Mental Health: Subway Entrance and Cluster Analysis

Architect Registration

States of New York and Virginia