Ling Chen

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Website Portfolio: https://lingchenurban.cargo.site/

Urban Planner fusing passion for Geospatial Analytics and Innovative Urban Solutions

EDUCATION

University of Pennsylvania, Weitzman School of Design, Philadelphia, PA **May 2024**
Master of City and Regional Planning, Certificate: GIS and Spatial Analysis
Relevant Courses: Smart Cities Practicum, Public Policy Analytics, Geospatial Machine Learning in Remote Sensing, Geospatial Data Science in Python, Statistical & Data Mining Methods, Modeling Geographical Objects, Land Use & Environmental Modeling

Tongji University, College of Architecture and Urban Planning, Shanghai, China **June 2022**
Bachelor of Engineering in Urban Planning: Urban and Rural Planning

RELEVANT EXPERIENCE

Planning Intern, WRT| Philadelphia, PA **June 2023 – Nov 2023**
- Conducted GIS spatial analyses, socio-economic, accessibility analyses as foundational research for multiple planning projects.
- Used Rhino & Adobe Suite to develop strategies and diagrams for seven transit-oriented redevelopment areas in City of Trenton.
- Crafted spatial strategies and renderings for the Hoboken Housing Redevelopment Plan using GIS & Adobe Suite. Focus areas included project phasing, mobility, land use, site design, building standards, open spaces, recreational facilities, and circulation.

Public Policy Analytics, UPenn | Predicting Delays for NJ Transit Commuters **Oct 2023 – Dec 2023**
- Conceptualized an analytical framework and created predictive models in R for real-time train delays up to three hours ahead, incorporating spatial autocorrelation, serial, and time lag effects, and evaluated performance across various time frames.
- Determined use case for NJ transit commuters, offering instant predictions and an interactive user interface.

Smart Cities Practicum, UPenn | A Data-Driven Planning Framework for Curbside Loading Zones **Jan 2024 – May 2024**
- Worked with the City of Philadelphia on a proof-of-concept data framework and interactive platform for curbside loading zones, leading the back-end modeling and engaging in bi-weekly client alignment meetings.
- Conducted detailed exploratory analyses of pilot data and implementing machine learning models to predict curb zone demands.
- Designed a web application, from wireframing to deployment, tailored to meet client specifications for product development.

Geospatial Machine Learning in Remote Sensing, UPenn | Deep Learning for Urban Spatial Analysis **Jan 2024 – May 2024**
- Launched a project inspired by remote sensing studies, using ArcGIS Pro and Computer Vision to derive street assessment indicators from both subjective and objective perspectives, aiming for a comprehensive understanding of urban spaces.
- Leveraged Python-based machine learning techniques and deep learning libraries to analyze urban environments through street view images, delivering finely detailed, human-centric geospatial insights and solutions.

Geospatial Data Science in Python, UPenn | Urban Resiliency in Hong Kong **Oct 2023 – Dec 2023**
- Employed geopandas, web scraping, osmnx, and rasterio for spatial analysis of temperature, NDVI, socio-economic, characteristics and Landsat 8 satellite imagery of Hong Kong, focusing on heat distribution and environmental impact.
- Applied Scikit-learn for cluster analysis, identifying districts with commonalities and resilience to urban heat challenges.

Planning and Design Studio, UPenn | Design for an Equitable Future in Philadelphia's Chinatown **Sept 2022 – Jan 2023**
- Analyzed historical features of Philadelphia's square system to integrate and revitalize public spaces and connect to Chinatown.
- Developed high density mixed-use parcel typologies to meet underserved goals in Chinatown & the needs of young professionals.
- Extracted crash & open space data to identify and restructure mobility systems to confront negative influence of infrastructure.

LEADERSHIP & VOLUNTEER EXPERIENCE

Curriculum Design Team Leader, Support Teaching & Building Activities | Loufan, Shanxi, China **July 2019**
- Built an urban-rural cultural awareness curriculum for instructing local middle school students through interactive engagements.

SKILLS

Toolkit: ArcGIS Pro, R, Python, Microsoft Excel, Adobe Illustrator, Adobe InDesign, Auto CAD, Rhino, Sketch-Up, SQL, GitHub
Skillset: Geospatial Analysis, Data Visualization, Machine Learning, Deep Learning, Urban Planning, Remote Sensing, Branding
Language: English (Fluent), Mandarin (Native)