

About Me

Urban Spatial Analyst using data analysis to inform city and regional planning, with a specialization in GIS, transportation analysis, and data visualization. Experienced in using Python, R, and SQL to analyze large datasets and communicate technical findings to public agencies and non-technical stakeholders.

EDUCATION

University of Pennsylvania	Philadelphia, PA	Sep 2025 – May 2026
Master of Urban Spatial Analytics		
Xi'an University of Architecture and Technology	Xi'an, China	Aug 2019 – Jun 2024
Bachelor of Engineering, Urban and Rural Planning		

PROFESSIONAL EXPERIENCE

City of Philadelphia	Philadelphia, PA	Jan – Apr 2026
Data Science Student Consultant Office of Innovation and Technology		
- Integrated seven administrative datasets across three city agencies in R, engineering 34 indicators to assess vacancy risk across 436,297 residential properties and support inspection prioritization. - Developed a predictive model achieving 0.94 ROC-AUC on a stratified test set; evaluated geographic generalization through spatial cross-validation and assessed performance across Census-derived income quintiles. - Built an interactive mapping dashboard with ward-level summaries, parcel search, and property-level risk explanations, translating model outputs into accessible information for inspection and planning staff.		
China Academy of Urban Planning & Design	Beijing, China	Jun – Sep 2022
Urban Planning Intern		
- Analyzed road networks and land use across a 15+ km² rural planning area using ArcGIS; translated findings into 27 maps and geospatial outputs supporting a five-year land use plan adopted by county authorities. - Integrated and validated multi-source spatial data using SQL queries and ArcGIS geoprocessing, resolving boundary and land-use classification discrepancies to support consistent planning analysis and regulatory review.		

SELECTED PROJECTS

Philadelphia Computer-Assisted Mass Appraisal	Jan – May 2026
Data Analyst Python, SQL, GCP	
- Built a cloud-based data pipeline using Python, SQL, and Google Cloud Workflows to integrate property records, assessment histories, and parcel geometry, automate valuation predictions, and publish map-ready data. - Developed interactive mapping and property lookup tools with ZIP-code filters, assessment comparisons, and historical trends, enabling users to explore valuation discrepancies and understand property-level changes.	
Philadelphia C-V2X Safety & Transportation Operations Plan	Jan – May 2026
Transportation Consultant Transportation Planning Team Project GIS, Python	
- Developed a three-step corridor screening framework combining event travel patterns, crash severity, transit access, and deployment feasibility to guide proposed C-V2X investment priorities in Philadelphia. - Proposed a performance evaluation framework linking near-miss events, bus schedule adherence, and transit signal priority outcomes to corridor safety and service reliability, with defined data sources and agency decision uses. - Co-authored an implementation report translating technical research into maps, funding strategies, and interagency responsibilities, outlining a pathway for pilot evaluation and integration into DVRPC's Transportation Improvement Program.	

SKILLS

Technical	Python R SQL Excel Tableau ArcGIS SPSS JavaScript Google Cloud Platform
AI Tools	Codex Claude Code GitHub Copilot Cursor
Language	Mandarin (Native) English (Professional Working Proficiency)