Jinyang Xu

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EDUCATION

University of Pennsylvania   **Philadelphia, PA**

Master of Urban Spatial Analytics   08/2025 - 05/2026

- Statistical and Data Mining Methods for Urban Data Analysis, Public Policy Analytics, Geospatial Data Science in Python; Thesis Topic: Developing an Interactive Tool Mapping Rental Subsidy

Southeast University   **Nanjing, China**

Bachelor of Engineering in Urban and Rural Planning   09/2020 - 06/2025

- Urban and Rural Infrastructure Planning, GIS in Urban Planning, C++ Computer Programming, Architectural Design; Thesis Topic: Functional Repair and Spatial Quality Enhancement in Built-up Urban Areas

PROFESSIONAL EXPERIENCE

Guangdong Provincial Architectural Design Institute   **Guangzhou, China**

Urban Planning Intern   07/2024 - 10/2024

- Conducted urban diagnostics for Shanwei City using GIS, analyzing green spaces, building textures, land use ratios, and urban form.
- Participated in the full architectural design process for Huizhou Boluo Hospital, from site analysis to layout design and technical drawing preparation.

Key Contributions:

- Completed the Shanwei City Urban Diagnostic Report and Coastal Area Redevelopment Plan.

Southeast University   **Nanjing, China**

Research Assistant   10/2022 - 07/2025

Research Tittle: 'Individual Activity Pattern Analysis Using Mobile Signal Data: A case study in Nanjing'

- Developed GIS and Python algorithms for large-scale data processing, including data cleaning and POI data analysis.
- Identifying individual activity patterns by using processed mobile data and POI data set.
- Constructed behavior activity chains, sequence alignment and performed behavior pattern recognition.

Key Contributions:

- Completed Python programming and ArcGIS Pro geographic processing independently.
- Drafted the project paper, and submission is planned for the end of 2025.

Opal Jewelry   **Hangzhou, China**

Sales & Procurement Coordinator   11/2023 - Present

- Managed procurement and sales operations, ensuring product quality, availability, and revenue growth.
- Built and maintained strong client relationships, delivering personalized service to high-value customers.
- Negotiated supplier contracts and coordinated logistics to streamline inventory control.
  Key Contributions:
- Secured a stable long-term supply chain and consistently achieved $24,000 in monthly personal sales revenue, driving both business growth and customer loyalty.

SKILLS

- **Data & GIS Tools**: Python, R (Data Analysis & Visualization), C++, ArcGIS Pro, QGIS
- **Planning & Analytics**: Industrial Space Development, Data Analysis, Spatial Data Analysis
- **3D Modeling & Visualization**: Rhinoceros, SketchUp, AutoCAD
- **Design & Presentation**: Adobe Creative Suite (Photoshop, Illustrator, InDesign)
- **Business & Sales**: Jewelry Identification, Vendor Sourcing & Procurement, Contract Negotiation, Inventory Control
- **General**: Strong interpersonal communication, Cross-cultural collaboration, Customer-oriented problem solving
- **Language**: English(fluent), Cantonese(native), Chinese(native)

RESEARCH EXPERIENCE

Individual Activity Pattern Analysis Using Mobile Signal Data: **Nanjing, China**
A case study in Nanjing   10/2022 - 07/2025

> The manuscript is currently being drafted, and submission is planned for end of 2025.

Utilizing Agent-Based Modeling on the GAMA Platform   **Nanjing, China**
to Enhance Computational Urban Design   10/2023 - 11/2024
Research Paper (Second Author)

> *Published at GAMA Days 2024 (DOI: sciencesconf.org:gamadays2024:581778)*

- Conducted GIS and Python-based OD data processing for input into agent-based models simulating urban mobility patterns.

LEADERSHIP & ENGAGEMENT

Urban Inclusion Initiative (UII)   **Nanjing, China**
Volunteer Team Leader   07/2021 - 09/2022

- Supported migrant worker inclusion by organizing vocational training, legal aid services, and community engagement activities.

"Spring of Architecture" Annual Gala   **Nanjing, China**
Event Coordinator   09/2020 - 12/2021

- Organized and led a campus event attended by over 1,000 students and faculty.

Volunteer Service Association   **Nanjing, China**
Project Coordinator   10/2022 - 05/2023

- Led 30 volunteers in community service projects, directly benefiting over 100 elderly residents.

Age-Friendly Community Renewal   **Nanjing, China**
Team Leader   07/2021 - 10/2021

- Conducted field research on senior citizen behavior and residential patterns in Hongmiao Community.
- Proposed targeted senior-living enhancements, including space integration, greenway planning, and slow-traffic system development.