

JINGYI LI

GIS Technician

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SKILLS

GIS: ArcGIS Pro, ArcGIS Online, Survey 123, ArcGIS Storymap, ArcGIS Javascript SDK

Database & Cloud Services: PostgreSQL + PostGIS, MySQL, Google Big Query, Google Cloud Platform, ETL

Computer Programming: GIS Web Development (HTML, Javascript, CSS, MongoDB), Automation (Python)

Planning & Business Analysis: Feasibility Study, Pro Forma Analysis, Urban Redevelopment, Public Policy

Graphic Design: Adobe Suite (Photoshop, InDesign, Illustrator), Data Visualization (Python, Excel)

EDUCATION

University of Pennsylvania, Stuart Weitzman School of Design, Philadelphia, PA

Aug 2023

Master of Science in Historic Preservation, Preservation Planning & GIS

Harbin Institute of Technology, School of Architecture, Harbin, China

Jun 2020

Bachelor of Engineering in Architecture ([Architecture Portfolio](#))

EMPLOYMENT

Department of Computer & Information Science, Penn Engineering, Philadelphia, PA

Present

Research Intern at NetDB@Penn, Teaching Assistant

- Researched SQL query optimization for distributed relational databases and automated benchmark evaluation.

Department of City Planning, Stuart Weitzman School of Design, UPenn, Philadelphia, PA

Sep 2022 - May 2023

GIS & Machine Learning Research Assistant, Teaching Assistant

- Used ArcGIS, ML, and urban datasets (census, parcels, property listings) to map neighborhood changes;
- Assisted students in troubleshooting GIS full-stack web app programming, ETL scripting, and SQL queries on large datasets (census, parcels, transportation); automated SQL query testing (Javascript & Python).

Center for Architectural Conservation, Philadelphia, PA

Apr 2022 - May 2023

GIS Intern

- Processed Lidar & DEM data, and conducted raster analysis using ArcGIS Pro and HEC-RAS.
- Used ArcGIS Storymap, GIS web mapping (Leaflet.JS), frontend web dev, and 3D geospatial data visualization (CesiumJS) to create a [website](#) for the Pennsylvania Hospital Conservation Management Plan (CMP) project.

China Architecture Design and Research Group, Beijing, China

Nov 2019 - Mar 2020

Intern Architect, Ju Atelier Department

- Conducted site analysis, design, 3D modelings, and architectural drawings for commercial buildings.

PROJECTS in GIS

Mapping the Flood Susceptibility for Historic Properties and Districts in Philadelphia ([Report](#))

- Used ArcGIS Pro to conduct hydrological analysis for city-wide properties; used Model Builder for workflow automation.

A Grading System of Locating a Community Garden in Rio de Janeiro, Brazil ([Report](#))

- Used census, transportation, topography, and water data to conduct location analysis in ArcGIS Pro.

Feasibility Study - Robinson's Department Store, PA ([Report](#))

- Researched a commercial building's feasibility for redevelopment based on market analysis, pro forma analysis, public policy research, and stakeholder analysis using census, employment, and property data.

Revitalizing Carbondale - A Community-Centered Preservation Plan ([Report](#))

- Mapped the urban development in ArcGIS Pro and developed a community-centered revitalization plan for the city. Composed a report (InDesign) and created graphics (Photoshop & Illustrator) for presentation.

A Prototype of a Full-Stack App for Community-Centered Preservation ([Webpage](#), [Github](#))

- Created a full-stack web app (RESTful API, NodeJS, Express, MongoDB) for collecting spatial data for community engagement.

COMMUNITY OUTREACH

The Penn Preservation Student Association (PPSA)

- Advocated on behalf of students' interests, engaged with faculty, and fostered a sense of community among students; held regular meetings, brought speakers to campus, and organized events (movie nights, potluck, etc.)