

Binghui Li

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EDUCATION

Master of Science, Geographic Information Science (GIS) Clark University, Worcester, Massachusetts	<i>Dec. 2024</i>
Bachelor of Science, Civil Engineering Penn State University, Middletown, PA	<i>May. 2022</i>

WORK EXPERIENCE

City of West Jordan, GIS Division GIS Technician Intern	West Jordan, UT, USA <i>Feb. 2025 –present</i>
<ul style="list-style-type: none">• Maintained and updated geospatial datasets to support infrastructure planning and public safety initiatives, ensuring alignment with city-wide data governance policies.• Built and managed over 35 ArcGIS Pro and Online map products, integrating datasets from internal departments and external government sources.• Developed spatial dashboards visualizing 3,200 fire incidents, enabling Salt Lake County Disaster Management to improve emergency response coverage and reduce average dispatch time.• Collaborated with engineers and field teams to validate and correct 1,500 infrastructure records, enhancing spatial accuracy and asset lifecycle documentation.	
Delaware State Parks, DNREC Land Preservation Intern	Dover, DE, USA <i>Jun. 2024 – Aug. 2024</i>
<ul style="list-style-type: none">• Maintained and updated GIS databases for 15 conservation easements and nature preserves, integrating land deed records and survey boundaries to ensure spatial accuracy and regulatory compliance.• Collaborated with environmental specialists to conduct field audits and spatial assessments, identifying 5 land-use violations and documenting encroachment risks for mitigation planning.• Performed land cover change detection using 10 years of satellite imagery and raster analysis, identifying 12 developed areas within protected zones and informing land reclassification.• Created custom geospatial layers for invasive species mapping, cataloging 30 field observations to support statewide invasive species control strategies.	

Related Projects

Renewable Energy Potential Mapping	<i>Apr. 2024</i>
<ul style="list-style-type: none">• Designed and implemented a PostgreSQL geodatabase schema to integrate multi-source datasets including land cover, solar irradiance, wind speed, and elevation data. Improved data processing efficiency by normalizing 10 relational tables to Fourth Normal Form (4NF), reducing redundancy and enhancing query performance.• Performed spatial analysis using ArcGIS and elevation modeling to identify top 5% optimal sites for solar and wind energy projects across the study region. Produced location suitability maps and elevation impact assessments.	
Environmental Analysis: Mapping Toxic Chemical Exposure Risks in Allegheny County	<i>May. 2023</i>
<ul style="list-style-type: none">• Integrated environmental and socio-demographic datasets, utilizing GIS tools to identify high-risk areas.• Leveraged ArcGIS capabilities for advanced statistical analysis to quantify the impact of pollution on various populations, supporting data-driven policy recommendations.	

SKILLS & Certification

Languages: Native speaker of Mandarin and Cantonese; Fluent in English
Computational Skills: Experienced in ArcGIS, Python, PostgreSQL, CAD, Field Maps
Certification: Creating Python Scripts for Raster Analysis, Remote Pilot Certificate