Binghui Li

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EDUCATION

Master of Science, Geographic Information Science (GIS)   *Expected Dec. 2024*
Clark University, Worcester, Massachusetts

Bachelor of Science, Civil Engineering   *May. 2022*
Penn State University, Middletown, PA

WORK EXPERIENCE

Delaware State Parks, DNREC   **Delaware, USA**
Land Preservation Intern   *June. 2024 – Aug. 2024*

- Reviewed historical deeds and monitored 15 conservation easements and nature preserves, ensuring compliance with land-use restrictions and documenting encroachment activities.
- Managed and updated geodatabases based on land survey deeds, ensuring data accuracy and integrity.
- Documented invasive species and contributed to the Nature Preserve Invasive Species Control Management Plan.
- Analyzed land use changes over the past decade, removing developed areas.

Dongguan Yongtai Construction Co., Ltd.   **Dongguan, China**
Construction Worker   *May. 2019 – Jul. 2019*

- Assisted in construction supervision and volume review under the leadership of the project manager.
- Provided the specifications, models and arrival dates of the materials required on the construction site.
- Took in charge of the acceptance and management of on-site materials as well as the collection, storage and completion of supporting documents

Related Projects

Environmental Analysis: Mapping Toxic Chemical Exposure Risks in Allegheny County   *May.2023*

- Conducted spatial analysis to map pollution exposure, revealing socio-demographic disparities across regions.
- 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.

Renewable Energy Potential Mapping   *Apr.2024*

- Designed a PostgreSQL database schema to integrate diverse energy datasets.
- Streamlined data efficiency by normalizing tables up to the 4NF.
- Identified prime locations for energy projects through spatial analysis and assessed elevation impacts on energy potential to locate optimal sites.

VOLUNTEER

OpenStreetMap (OSM) project for the 2023 Afghanistan earthquake response   **Worcester, Massachusetts**
Volunteer Mapper   *Nov. 2023*

- Assisted in the mapping of buildings and settlements in Herat Province following two 6.3 magnitude earthquakes
- Utilized satellite imagery to identify and mark critical infrastructure and affected areas

SKILLS & HOBBIES

Languages: Native speaker of Mandarin; Fluent in English
Computational Skills: Experienced user in ArcGIS, Python, PostgreSQL, Terrset, CAD, Field Maps
Certification: Creating Python Scripts for Raster Analysis