Yutong Jiang

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EDUCATION

University of Pennsylvania **Aug 2024 – May 2025**

M.S. in Urban Spatial Analytics

University of Wisconsin-Madison **Sep 2020 – May 2024**

B.S. in Cartography & GIS + Geography (People-Environment Subfield) | Minor in Digital Study

The 49th Annual CaGIS Map Design Competition - *Arthur Robinson Award Honorable Mention*

SKILLS

Coding: R, Python, Google Earth Engine, Arc.py, JavaScript, Leaflet, D3, Mapbox, PostgreSql, MongoDB

GIS: ArcGIS suite, QGIS, ENVI, CloudCompare, Meshroom, API - Google Map, OpenStreetMap

Others: Figma, Microsoft Office Suite, Adobe Photoshop/Illustrator/Premiere, Blender

RESEARCH EXPERIENCE

Interactive Geovisualization Development In Presenting Annual Crop Yield Data **Aug 2023 – May 2024**

Spatial Computing and Data Mining Lab | Advisor: Dr. Qunying Huang

- Engaged in creating and optimizing interactive web map visualizations based on Javascript, and leaflet. Enhanced the visualization aspect to include interactive features that allow users to explore and analyze crop yield data efficiently.
- Database Management: Designed, implemented a spatial database for the crop yield modeling and prediction; Developed data mining and analytic functions to extract and deminatee valuable information from the DB, supporting ongoing research and development efforts in the lab;

WORKING EXPERIENCE

Sinovation Ventures - *Interactive Design Intern* **May 2022 – Jul 2022**

- Collaborated with a team of four to explore the application of AI algorithms using various programming languages.
- Designed a comprehensive twenty-page presentation of the project using Adobe Illustrator, showcasing key findings and methodologies. Produced and recorded a detailed project presentation video. Conducted an online presentation to effectively communicate project results to stakeholders.

Shanghai City GIS Developing Co.,Ltd. - *Data Processing and Management Intern* **May 2021 – Aug 2021**

- Digitized and georeferenced a printed map of Shanghai using ArcMap and ArcGIS Pro, transforming it into a detailed digital street map for spatial analysis. Integrated geospatial data from various sources to enhance spatial accuracy and perform advanced geospatial data analysis. Utilized R to analyze and visualize spatial patterns.
- Using annotated map data to train AI algorithm in identifying map elements and key image recognition.

PROJECTS EXPERIENCE

Planning for resilience to natural hazards -

- Created an interactive story map on resilience planning for natural hazards; highlighted risk assessment, mitigation strategies, and community engagement best practices.
- Create a Wildfire Risk Map of California, offering a nuanced tool for policy makers and emergency services to prioritize fire prevention measures and improve community resilience against future wildfire events.

Predicting Bikeshare Demand in Jersey City -

- Evaluates the development of a Natural Wildfire Risk Index (WRI) in Butte County, California, by examining the 2018 Paradise Camp Fire. The study employs methodologies to integrate multiple GIS layers - ncluding land use, vegetation types, population density, and fuel accumulation - to assess wildfire risks in Butte County.
- Create a Wildfire Risk Map of California, offering a nuanced tool for policy makers and emergency services to prioritize fire prevention measures and improve community resilience against future wildfire events.

Train Delay Time Prediction -

- Evaluates the development of a Natural Wildfire Risk Index (WRI) in Butte County, California, by examining the 2018 Paradise Camp Fire. The study employs methodologies to integrate multiple GIS layers - ncluding land use, vegetation types, population density, and fuel accumulation - to assess wildfire risks in Butte County.
- Create a Wildfire Risk Map of California, offering a nuanced tool for policy makers and emergency services to prioritize fire prevention measures and improve community resilience against future wildfire events.

Transit Oriented Development Planning -

- Evaluates the development of a Natural Wildfire Risk Index (WRI) in Butte County, California, by examining the 2018 Paradise Camp Fire. The study employs methodologies to integrate multiple GIS layers - ncluding land use, vegetation types, population density, and fuel accumulation - to assess wildfire risks in Butte County.
- Create a Wildfire Risk Map of California, offering a nuanced tool for policy makers and emergency services to prioritize fire prevention measures and improve community resilience against future wildfire events.