ZILE WU

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EDUCATION

University of Pennsylvania

Master of Urban Spatial Analytics

Sept 2022 - Expected May 2023

Philadelphia, PA

Selected Relevant Courses: Public Policy Analytics, Geospatial Cloud Computing & Visualization, MUSA/ Smart Cities Practicum, Introduction to Housing, Community and Economic Development

Tongji University Bachelor of Architecture Sept 2015 - June 2021

Shanghi, China

EXPERIENCE

MS. Candidate, Urban Spatial Analysis

University of Pennsylvania

Sept 2022 - Present

Philadelphia, PA

- Building a proof-of-concept analytical and informational system to incorporate risk or frequency estimates of future eviction filings alongside other descriptive metrics using R, HTML/css/Javascript. Providing decision-making aids so that resource allocation decisions by the client and stakeholders can be made in a more proactive manner to reduce the risk of potential evictions at a property level.
- Developed an online story map to tell the status of evictions in Philadelphia and made a prediction of eviction risk based on geo-spatial data using Iso Cluster Unsupervised Classification in Arcgis Online at a census tract level.
- Wrote a time token algorithm using R to help the City of San Francisco better evaluate and utilize the existing dynamic pricing policy. i.e., to be able to predict and regulate the occupancy rate of parking spaces through dynamic pricing and various spatial and temporal factors to ensure the availability of parking.

Research Assistant Aug 2021 - Aug 2022

National key research and development project, Tongji University

Shanghai, China

- Wrote a raster classification algorithm based on the historical satellite image data to identify different types of rasters at the resolution of 10m
- Developed a land change model based on 5-year satellite data for 8 national villages using CA-Markov model at the resolution of 10m. The actual and expected landscape richness of each village was assessed using information entropy.
- Released 1000 questionnaires of village spatial index system for experts and scholars designed with SP method. To summarize the composition method of the spatial index system of villages and towns.

Urban Design/Architecture Intern

Yao Dong Research Office & Office for Urban Renewal(OUR)

Sept 2020 - Jan 2021

Shanghai, China

- Wrote a grasshopper script to render a Graduation group photo based on individual photos, simulation environment and true enivronment during epidemic period when graduates can't meet offline
- Collaborate with the construction team, deepen the community center renewal program in Xuhui, Shanghai

LEADERSHIP ACTIVITIES

Aging in Place Design Workshop

Organizer/Staff

July 2021 - Aug 2022

Shanghai, China

- Responsible for pre-study communication and negotiation in nursing homes.
- In charge of Workshop evaluation process design and venue reservation and time management.

Shanghai Live Rock Series

Sep 2017 - May 2019

Organizer/ Band member/ Drummer

Shanghai, China

- From 2017 to 2019, organized 10+ band shows and platters at 5+livehouse in Shanghai with 10+ bands from different places.
- Performed in 2018 Strawberry Music Festival, Modern Sky Lab, Shanghai, China; 2019 Eastern Sea Festival.

SPECIALIZATIONS / SKILL-SET

Geo-Spatial Analytics

Satellite Image based Raster Analysis | Eniveronmental Modeling

- **Statistical Analytics** Predictive Modeling in R | Classfication and Regression analysis | Machine Learning
- **Programming**

R | Python | HTML/CSS/Javascript | SQL

Data Manipulation in R/Python | Web Scraping | Twitter API | ArcGIS Pro Data Wrangling **Urban Planning**

Urban Design | Urban Economics | Space Syntax

Architecture

Design & Project Management | AutoCAD | Rhino | SketchUp | Adobe Suite CC