

Huidi (Sofia) HU

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Education

University of Pennsylvania, Philadelphia, US expected 2021

Master in City Planning, Concentration of Smart Cities, Weitzman School of Design

Relevant Courses: Spatial Analysis for Urban and Environmental Planning, Land Use and Environmental Modeling, Java Script Programming for Planners and Designers, Water Policy, Intro to Smart Cities, Quantitative Planning Analysis Methods, Planning Workshop

Peking University, Beijing, China 2019

Bachelor in Urban Planning, Yuanpei College, GPA: 3.72/4.0

Bachelor in Economics, National School of Development, GPA: 3.64/4.0

Exchange, National University of Singapore

Projects

ArcGIS Project: Site Suitability Index for New Student Homes in San Francisco 01/2020

- Pulled and wrangled data from Zillow house price database and DataSF APIs
- Conducted spatial analysis and developed a site suitability index for new student homes

R Project: Spatial Risk Prediction for Crime in Chicago 11/2019

- Retrieved and cleaned crime data and other relevant data from Chicago Data Portal
- Utilized machine learning methods to predict the possible high-risk crime locations

Experience

Intern, China Center for Urban Development, Beijing, China 10/2018-01/2019

- Engaged with community members and industrial stakeholders in Fuping County, Shanxi Province
- Conducted data analysis and visualization on demographic feature and performed population prediction
- Analyzed local industrial structure and proposed strategies for future economic development

Research Assistant, Beijing Institute of Big Data Research, Beijing, China 06-08/2018

- Created nontraditional economic indicators for major Chinese cities by processing and analyzing satellite images

Intern, World Resources Institute, Beijing, China 08-12/2017

- Conducted policy research and data analysis on urban transit operations and new energy buses
- Cooperated with professional staff to compile materials, collect data and translate documents

Research Assistant, College of Urban and Environmental Sciences, Beijing, China 06-08/2017

- Investigated regional situations and policies based on field surveys in major cities of Shandong province
- Conducted policy research on regional planning mechanism by comparing domestic and overseas experience
- Benchmarked economic, social and environmental indicators across 6 similar regions for develop strategies

Student Journalist, The Office of International Relations, Beijing, China 09/2015-10/2017

- Proposed, wrote and compiled feature stories of major campus events for the university magazine

Skills

Geo-spatial Analytics: ArcGIS, Environmental Modeling, Agent Based Modeling

Statistical Analytics: SPSS, Stata, Machine Learning

Data Wrangling and Visualization: R, JavaScript/HTML/CSS

Web tools: Leaflet, MapBox, RMarkdown, GitHub

Graphic tools: InDesign, Illustrator, Photoshop

3D modeling: AutoCAD, SketchUp

Others: Microsoft Office