

# ZICHENG FAN

## EDUCATION

**National University of Singapore**, Singapore, Singapore

Jan 2023- Now

- PhD in Architecture
- Ongoing project supervised by Dr Filip Biljecki:
  - Sensing Night-time Urban Lighted Scenario via Day-time Street View Images
  - Extracting Urban 3D and Semantic Point Cloud Using Street View Images and Simulate the Perception of Potential Criminals

**University College London**, London, UK

Sep 2021-Sep 2022

- Master of Research, Spatial Data Science and Visualisation, Distinction
- Thesis supervised by Dr Valerio Signorelli: Predicting Repeat Noise Complaints with Time Course of Noise Complaints and Random Forest Classifiers

**University College London**, London, UK

Sep 2020-Sep 2021

- Master of Science, Space Syntax: Architecture and Cities, Distinction
- Thesis supervised by Dr Kayvan Karimi: Exploring the Potential Impact of the Urban Multi-Type Centres and Physical Barriers on Centrality and the Socio-economic Condition of Communities

**Soochow University**, Suzhou, China

Sep 2015-July 2020

- Bachelor of Engineering, Urban and Rural Planning, GPA: 3.6/4.0
- Thesis supervised by Dr Yuanyuan Mao: Measuring the Potential of Continuing the Historic Urban Landscape in Urban Planning and Design with Spatial Analysis

## PUBLICATIONS

- Fan, Z., & Signorelli, V. (2022). Is the Noise Still Going on? Predicting Repeat Noise Complaints with Historical Time Course and Random Forest Classifiers. *Environment and Planning B: Urban Analytics and City Science*. Available at: [Link](#)
- Fan, Z. (2021). Pedestrian's Vision Potential on Building Interface: Visibility Analysis and Simulation based on the Space Syntax Theory. In *Chengyuan Cup: The Winning Portfolio of the Planning Decision Support Model Design Competition (2021)*, PP. 133-149, China Architecture & Building Press.
- Fan, Z., & Zhou, G. (2019). A Research on Parking Facilities in Neighborhood Centres of Suzhou Industrial Park Based on Residents' Satisfaction - Taking Hudong, Fangzhou and Xincheng Neighborhood Centres as Examples. *Urbanism and Architecture*, 16(08), PP. 31-37.

## HONORS

- President's Graduate Fellowship of National University of Singapore Jan 2023
- Second Prize of the 5<sup>th</sup> Chengyuan Cup Contest of Planning Decision Support Model in China May 2021
- Excellent Dissertation for Bachelor's Degree of Soochow University Jul 2020

## INTEREST

- Building Scale: Individual Perception and Behaviour Modelling, Computational Analysis on 3D Built Environment
- Urban Scale: Deep Learning, 3D GIS, Spatial Data Science, Spatial Network Analysis,

## SKILLS

Python (TensorFlow, OpenCV); R; JavaScript; SQL; ArcGIS; QGIS; Rhino; Grasshopper; NetLogo; Depthmap