

## **Bowen Zhang**

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### **Current Education**

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2019.10-      **PhD of Geography (Science) Research**  
-King's College London, UK  
-**Supervisors:** Dr. Chen Zhong and Dr. Naru Shiode  
-**Research Project:** Modelling Urban Clusters in Mega-city Region based on Human Mobility Pattern: A Case study of The Great Bay Area, China

### **Current Employment**

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2020.10-      **Graduate Teaching Assistant (Part-time)**  
- King's College London, UK  
- **Undergraduate Taught:** 6SSG3077 Applied Geocomputation and Spatial Analysis, 5SSG2060 Principles of Spatial Data Science

### **Higher Education Qualifications**

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2018.9- 2019.9      **Master of Research student in Spatial Data Science and Visualisation**  
-University College London, UK  
-**core courses:** Geographic Information Systems and Science, Data Science for Spatial System, Digital Visualisation

2016.9- 2017.9      **Master of Science (Eng) Transport Planning and Engineering**  
-University of Leeds, UK  
-**core courses:** Principles of Transport Modelling, Principle of Transport Engineering, System Dynamics: Transport Policy, Traffic Network Modelling,

2012.9- 2016.7      **Bachelor of Water Resources and Ocean Engineering**  
-Zhejiang University, China  
-**core courses:** Fluid Mechanics, Structural Mechanics, Hydraulics, Soil Mechanics, Hydraulic and coastal structure, River dynamics

## Research Experience

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- 2017.9-2018.9 **Research assistance in Virtual, Safe and Automated Construction Center**  
-Huazhong University of Science and Technology, China  
-Working on construction management by utilizing machine learning.  
-Utilizing computer vision and artificial intelligence to develop a system for improve management of built environment.
- 2016.12-2017.9 **Passenger personal space: Is it a key factor affecting ticket fare?**  
-Dissertation for master's degree  
-Using C# and SPSS, implement an automatic data collection system for flight ticket fare and personalized seating information analyses the relationship using statistical methods and correlation discovery approaches.
- 2015.12-2016.6 **Survey and data analysis for resident trip characteristics in Hangzhou**  
-Outstanding bachelor's graduation thesis of Zhejiang University  
-Developed the trip survey questionnaire for trip information and household characteristics of city residents, digitalized the survey results and analysed the data using SPSS, discovered the relationship between household characteristics and travel demands. The outcomes are of great help for the strategic planning of the city tourism business.

## Publication

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Luo, H., Xiong, C., Fang, W., Love, P., **Zhang, B.** (2018). Convolutional Neural Networks: Computer Vision-based Workforce Activity Assessment in Construction (accepted by *automation in construction*)

## Skills

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**Computer Languages and software:** Python, R, C, JavaScript, ArcGIS, Saturn, Vensim

**Languages:** Fluent in Chinese and English