BOHAO SU

CASA, Bartlett, University College London | (+44)07827077432 | ucfnbsu@ucl.ac.uk
linkedin.com/in/bohaosucc/ | github.com/BohaoSuCC

EDUCATION

University College London — **London, United Kingdom**
Master of Science in Urban Spatial Science | GPA: Distinction (estimated) — SEP.2023-SEP.2024
Main course: Quantitative Methods, Data Science for Spatial System, Big Data and Spatial Application, Data Visualisation, GIS

Nanjing Forestry University — **Nanjing, China**
Bachelor of engineering in Urban and Rural Planning | GPA: 85.9/100 (top10%) — SEP.2016-JUN.2020
Main course: Architectural Design, Urban Studies, Urban Sociology and Economics, Master Planning, ArcGIS, Transportation

WORKING EXPERIENCE

East China Architectural Design and Research Institute — **Shanghai, China**
Junior Urban Planner — JAN.2022-MAY.2023
- *Investigate and collect communities' data and analyze spatially or demographically to help planning decision-making*
- *Conceptual master planning on key indicators such as region's land use proportion and urban development intensity, etc.*

Graduate Urban Planner — MAR.2021-JAN.2022
- *Get access to government's database platform and modify parameters by adjustment of regulatory planning projects.*

Urban Planning and Design Institute of NJU — **Nanjing, China**
Urban Planner Internship — JUN.2019-OCT.2019
- *assisting in community planning projects and adjustment of regulatory planning project*

PROJECT EXPERIENCE

Data Hackathon — **APR.2024**
<Best Technical Winner in 2024 CUSP London Data Dive>
Generated high-precision. Street-level Air Quality data heatmap based on congestion data without configuring more monitors by correlating factors together and building and selecting the fittest model among PLS, SARIMAS, LSTM.

Coursework Project (Spatial Data Science) — **DEC.2023**
< London Airbnb Listings' Spatial Distribution of Homogeneity and Heterogeneity Based on NLP and UMAP>
Used NLP methods including Word2Vec, UMAP, wordclouds, etc. to generate insightful suggestion towards managing and promoting listings base on customers' preference.

Individual Research (manuscript prepared for submission) — **OCT.2023**
<Urban Shrinkage about Spatial Autocorrelation Analysis and GWR model——Case Study on Northeast China>
Tried to redefined urban shrinkage and highlighted the vitality of urban agglomeration's planning, hoping to integrate the structure of urban agglomeration and urban function in the future by analyzing population's spatio-temporal flow.

Research Project (company initiated) — **FEB.2023**
<Evaluation Indicators for Social Resilience in Old City Communities>
Part of <Chinese National Standard-Resilience Evaluation System for Old City Communities>

Published Paper (2nd author) — **JUN.2020**
<Location of the public service facilities in an urban comprehensive park using a multi-hierarchy and multi-constrained configuration model> on <Journal of Urban Management>
Built a multi-hierarchy and multi-constrained spatial configuration model for public facilities as an extended version of classical dynamic programming problem, being as relative reference in terms of urban study's spatial interaction model

SKILLS

Programming: Proficient with **Python & ArcGIS**, familiar with **R** and **PostgreSQL**, basic know **Frontend & JavaScript**
Data Analysis: Data managing(**SQL**)|data cleaning(**pandas/geopandas**)|modelling(**scikit-learn**)|visualization(**matplotlib**)
Deep Learning: Experienced with Recommendation-Prediction System(**GNNs**), **NLP**(Embedding & Dimension Reduction), Decision Reasoning by **DRL**, familiar with models' architecture and algorithm.