

Hongyu Ye

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EDUCATION

Delft University of Technology (TU Delft), Netherlands

Faculty of Architecture and Built Environment

MSc Geomatics

Sep 2024–

Shaanxi Normal University (SNNU), China

School of Geography and Tourism

BSc Geographical Sciences GPA: 84/100

Sep 2020– Jun 2024

Mines Paris – PSL, France

ATHENS Geostatistics Programme

Nov 2024

RESEARCH EXPERIENCE

School of Humanities and Social Science, Chinese University of Hong Kong-Shenzhen, China

Research Assistant / Mentor: Asst.Prof. Shuli Luo

Jun 2024– Oct 2024

- ◇ Crawling, processing, and semantic analysis of social media data on Shenzhen Metro
- ◇ Assisting in the processing of mobile signalling data and POI data
- ◇ Carried out literature reviews on LLMs application in transit service, travel satisfaction, and urban planning

Northwest Land and Resource Research Center, SNNU, China

Research Assistant / Mentor: Prof. Tao Li

Sep 2023– Nov 2023

- ◇ Tasks include mapping and preprocessing of road network datasets, and calculating OD time-cost matrices.
- ◇ Participated in regular research group meetings and was in charge of literature review and reporting.

PROJECTS

Post-COVID Cities: Understanding New Dynamics of Travel Behavior and Activities / Mentor: Asst.Prof. Shuli Luo

Working Paper

Jun 2024– Oct 2024

- ◇ Investigated the shifts in urban travel behaviors post-COVID by leveraging social media (Twitter) data to capture pre- and post-pandemic mobility trends.
- ◇ Developed a framework integrating SVM for data cleansing with LDA for topic modeling to extract travel patterns.
- ◇ Uncovered changes—declining work/entertainment trips and rising healthcare mobility—and mapped spatial-temporal variations to inform urban planning.

The Influences of Multi-scale Built Environments on Commuting Carbon Emissions of Urban Residents: A Case Study of Xi'an / Mentor: Prof. Xiaoyan Huang

National College Student Innovation and Entrepreneurship Training Programme (Country-level)

Jun 2022– May 2023

- ◇ Explored the multi-level impacts of built environments on travel behaviours and their environmental and social effects on residents.
- ◇ The impacts of built environments around both residences and workplaces on commuting carbon emissions among different income groups were analysed on the community level.
- ◇ The promoting effects of urban public services on migrants' social integration were analysed at the city and community levels.

Representing the Sense of Place in a Neighborhood Under Urban Renewal Using Social Sensing Data: A Case Study of Shida Road, Xi'an / Mentor: Prof. Zhenbin Zhao

Course Project

Nov 2022– Jan 2023

- ◇ Collected comments in posts from social media regarding Shida Road from August 2020, when Shida Road was scheduled for demolition, to November 2022.
- ◇ The word-segmented result was obtained by filtering, synonym replacement, and semantic analysis of the comments.

- ◇ A semantic network of high-frequency terms was constructed from the result.

Exploring the Impact Mechanisms and Reduction Strategies of Urban Residents' Travel Carbon Emissions Under Carbon Peaking and Carbon Neutrality Goals / Mentor: Prof. Xiaoyan Huang

Qinzhu Scientific Research and Innovation Foundation Programme of SNNU

Nov 2021– Oct 2022

- ◇ Constructed a conceptual framework of the impact of urban built environment attributes on the travel carbon emissions of residents from the perspective of residential self-selection.
- ◇ The impact of built environments, individual socioeconomic attributes, and residence and travel preferences on the commuting carbon emissions of residents were examined.

TEACHING EXPERIENCE

Shenzhen Cuiyuan High School, China

Intern High School Geography Teacher

Mar 2024– May 2024

- ◇ Supervised over 100 students in memorising and reciting key points and corrected their assignments
- ◇ Designed the teaching methodologies courses regarding population, urbanization, and transportation

ACADEMIC AWARDS

2023Fall: The Special Award Fund for Foreign Language Examinations of SNNU: **First Prize**

2023Fall: The Outstanding Student of SNNU: **Third-class Scholarship (Top 20%)**

2021Fall: The Outstanding Student of SNNU: **Third-class Scholarship (Top 20%)**

SKILLS

Language: **1)** English language proficiency: **IELTS 7** (L7.5 R7.5 S7 W6.5) – Apr 2023 **2)** Understand and use basic Cantonese.

Programming: Python, C++, SQL

Software: Proficient in **ArcGIS Pro, ENVI, FME, GRASS GIS, QGIS, Stata**

CAMPUS EXPERIENCE

Propaganda Department of the Party Committee of SNNU, Xi'an, China

WeShare Studio

Sep 2021– Jun 2022

Head of Video Department

- ◇ Managed a video team of more than 60 people and produced 50+ videos posted on the school's official account
- ◇ Gained over 2 million video playing times on various social media platforms
- ◇ Music producer and video director for the official 2023 graduation music video of SNNU