Ganmin Yin

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 Room 109, Remote Sensing Building, Peking University, Beijing, China

EDUCATION

Peking University

2020.09 - 2025.06 (Expected)

- Ph.D. Student in Geographical Information Science
- GPA 3.60 / 4.00 · Top 30%
- Supervisor: Prof. Zhou Huang & Prof. Yu Liu

Peking University

2016.09 - 2020.06

- B.S. in Geographical Information Science
- GPA 3.53 / 4.00 · Top 30%
- Supervisor: Prof. Zhou Huang

RESEARCH INTERESTS

- Transportation & Travel Behaviour Analysis
- Urban Growth & Development Patterns
- Remote Sensing & Social Sensing
- Geospatial Artificial Intelligence & Its Applications
- Sustainable Development Goals (SDGs)

PUBLICATIONS

Journal Articles

How to quantify the travel ratio of urban public transport at a high spatial resolution? A novel computational framework with geospatial big data

ConvGCN-RF: A hybrid learning model for commuting flow prediction considering geographical semantics and neighborhood effects

Ganmin Yin, Zhou Huang*, Yi Bao, Han Wang, Linna Li, Xiaolei Ma, Yi Zhang 10.1007/s10707-022-00467-0 GeoInformatica (IF=2.77)

Quantifying the environmental characteristics influencing the attractiveness of commercial agglomerations with big geo-data

Zhou Huang, **Ganmin Yin**, Xia Peng*, Xiao Zhou, Quanhua Dong 10.1177/23998083231158370 Environment and Planning B: Urban Analytics and City Science (IF=3.51)

PATRIC: A high performance parallel urban transport simulation framework based on traffic clustering

Lin Wan, Ganmin Yin, Jiahao Wang, Golan Ben-Dor, Aleksey Ogulenko, Zhou Huang*

 $Under\ Review$

The spatially varying effects of built environment characteristics on the integrated usage of dockless bike-sharing and public transport

Xiao Zhou, Quanhua Dong, Zhou Huang*, **Ganmin Yin**, Guoqing Zhou, Yu Liu 10.1016/j.scs.2022.104348 Sustainable Cities and Society (IF=10.70)

DouFu: A Double Fusion Joint Learning Method For Driving Trajectory Representation

Han Wang, Zhou Huang*, Xiao Zhou, **Ganmin Yin**, Yi Bao

10.1016/j.knosys.2022.110035

Knowledge-Based Systems (IF=8.14)

Applying Ollivier-Ricci curvature to indicate the mismatch of travel demand and supply in urban transit network

High-resolution quantification of building stock using multi-source remote sensing imagery and deep learning

Yi Bao, Zhou Huang*, Han Wang, **Ganmin Yin**, Xiao Zhou, Yong Gao 10.1111/jiec.13356 Journ

Journal of Industrial Ecology (IF=7.20)

A unified spatial multigraph analysis for public transport performance

Yaoli Wang, Di Zhu, **Ganmin Yin**, Zhou Huang*, Yu Liu 10.1038/s41598-020-65175-x

Scientific Reports (IF=5.00)

Site selection for hybrid offshore wind and wave power plants using a four-stage framework: A case study in Hainan, China

Xiao Zhou, Zhou Huang*, Han Wang, **Ganmin Yin**, Yi Bao, Quanhua Dong, Yu Liu 10.1016/j.ocecoaman.2022.106035 Ocean & Coastal Management (IF=4.30)

Presentations & Talks

Understanding public transport supply and demand from the perspective of public transport travel ratio in a fine spatial scale

Ganmin Yin · Oral

The 29th International Conference on Geoinformatics (CPGIS 2021) \cdot Nov, 2021 \cdot Nanchang \cdot China

Exploring the influencing factors of urban commercial agglomeration attractiveness based on mobile signaling big data

Ganmin Yin, Zhou Huang · Oral

The 18th China Annual Conference on GIS Theory and Method \cdot Nov, 2022 \cdot Guilin \cdot China

PROJECTS

Multi-source Trajectory Data Computing Methods and Applications for Traffic Infrastructure Optimization 2023.01 – 2026.12

Research Assistant · National Natural Science Foundation of China (No. 42271471)

- Explore human travel behaviour using multisource trajectory big data
- Apply big data analytics and machine learning algorithms to geographic modeling and urban planning

Mobility as a Service: From Rigid to Smart Evolving Public Transport 2019.08 - 2021.07

Research Assistant · National Key Research and Development Program of China (No. 2017YFE0196100)

- Analyze the supply and demand of urban public transportation with geospatial big data
- Responsible for project management, communication, and closure

EXPERIENCE

Research Assistant 2018.10 – present

Spatio-Temporal Social Sensing Lab (S^3 -Lab), Peking University

- Focus on spatial-temporal data analysis and modeling
- Explore the human-environment relationship with geospatial big data
- Leverage deep learning techniques to examine issues including transportation and urbanization

Visiting Student 2017.09 – 2017.10

UC Berkeley, Davis & Santa Barbara

- Course study and field practice
- Apply remote sensing imagery to analyze drought in northern China

SELECTED HONOR & AWARDS

Presidential Scholarship, Peking University	2022
Merit (Three-Good) Student, Peking University	2022
LongRuan Technology Scholarship, Beijing LongRuan Technology Co. Ltd.	2020
Academic Excellence Award, Peking University	2017
SERVICES	
Peer Reviewer	
Transactions in GIS	2021
Session Chair The 2021 International Graduate Workshop on GeoInformatics (IGWG 2021)	2021