Han Wang

✉ hanwgeek@gmail.com · ⬤ HanwGeek · in · 8 · R

EDUCATION

Peking University   2020.09 − (expected)2023.06
- Master's Student in *Geographical Information Science*
- GPA 3.76 / 4.00 · Rank 2 / 18
- Supervisor: Prof. Zhou Huang & Prof. Yu Liu

Wuhan University   2016.09 − 2020.06
- B.Eng in *Remote Sensing Science and Technology*
- GPA 3.90 / 4.00 · Rank 3 / 262
- Supervisor: Prof. Zhipeng Gui

RESEARCH INTERESTS

- Spatial-temporal Modeling & Geospatial Big Data Mining
- Ecological Assessment & Environmental Impacts Analysis
- Remote Sensing & Multimodal Learning
- Probabilistic Machine Learning & Applications
- Sustainable Development Goals (SDGs)

PUBLICATIONS

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)

Identifying spatiotemporal characteristics and driving factors for road traffic CO2 emissions

Xiao Zhou, **Han Wang**, Zhou Huang*, Yi Bao, Guoqing Zhou, Yu Liu

10.1016/j.scitotenv.2022.155270   *Science of The Total Environment* (IF=10.75)

iTourSPOT: a context-aware framework for next POI recommendation in location-based social networks

Lin Wan, **Han Wang**, Yuming Hong, Ran Li, Wei Chen, Zhou Huang*

10.1080/17538947.2022.2122611   *International Journal of Digital Earth* (IF=4.61)

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   *Journal of Industrial Ecology* (Accepted, IF=7.20)

Evaluating the human use efficiency of urban built environment and their coordinated development in a spatially refined manner

Yi Bao, Zhou Huang*, Linna Li, **Han Wang**, Jiayuan Lin, Gang Liu

Resources, Conservation & Recycling (Accepted, IF=13.72)

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)

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 spatial variation in impacts of public transport on NO2 emissions with big geo-data

Han Wang, Xiao Zhou, Hao Guo, Quanhua Dong, Zhou Huang*

Under review

PROJECTS

Implement pre-sorting methods before GiST index building   2021.06 – 2021.10

Google Summer of Code · OSGeo · PostGIS

- Using space filling curves to sort items and construct GiST from the bottom up to speed up the building process
- Wiki: https://trac.osgeo.org/postgis/wiki/ImplementSortingMethodsBeforeGistIndexBuilding
- Presentation at FOSS4G 2021: https://youtu.be/Jjgghz_EzWQ?t=706

Automatic driving strategy and practice research   2019.07 – 2019.08

Deecamp 2019

- Build a toy self-driving vehicle system with a team
- Demo: https://www.bilibili.com/video/BV154411D7nq

EXPERIENCE

Graduate Research Assistant · Peking University   2020.09 – present

- Focus on spatial-temporal data analysis & management

Teaching Assistant · Peking University   2021.09 – 2022.01

- C programming language

Software Dev Intern · Esri Beijing R&D Center   2020.06 – 2020.09

- Signal processing & Body health analysis

SELECTED HONOR & AWARDS

Merit Student	2022
Scholarship of Excellent Student	2021
Award for Academic Excellents	2021
First Honor Graduate Student	2020
Liu Daoyu Award for Creative Learning	2019
Kwang-Hua Scholarship	2018
Meritorious Winner, COMAP's Mathematical Contest in Modeling	2018