YINGJING HUANG

Ph.D. candidate in Geographic Information Science

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INTERESTS

GIScience, GeoAI, Deep Learning, Computer Vision, Social Sensing

EDUCATION

Peking University

Beijing, China

PH.D. IN GEOGRAPHIC INFORMATION SCIENCE

Sep 2021 – present

Topic: Multi-modal Urban Big Data in Urban Functional Zone Recognition

Advisors: Lun Wu, Yu Liu, Yong Gao

Wuhan University

Wuhan, China

► MS. IN GEOGRAPHIC INFORMATION SCIENCE

Sep 2018 - Jun 2021

<u>Thesis:</u> "Fine-grained tourist emotion extraction and spatio-temporal analysis: A case study on Zhongxiang Mochou Village"

 $\frac{\text{Advisor: Teng Fei}}{\text{GPA: } 3.9/4.0}$

Wuhan University

Wuhan, China

凌 BSc. in Geographic Science

Sep 2013 – Jun 2017

Thesis: "Big data-based urban-rural dependency portrayal"

Thesis Advisors: Yiyun Chen, Teng Fei

GPA: 3.5/4.0

EXPERIENCE

CityDNA Technology Co. Ltd

Beijing, China

GIS INTERN

Mar 2021 – Aug 2021

- \square Crawled 23 types of data by **Scrapy** and **Selenium** including house prices, rent, POI, etc.
- □ Processed and analyzed geographic data by **Geopandas** and **Arcpy**, and calculated the indices of 50+ cities. Comparing to the previous code, calculation speed has doubled.
- Built machine learning models to predict urban building functionality, whose accuracy have achived about 0.9.

Mentor: Qingyuan Zhang

Honors & Awards

"Excellent graduate student", Wuhan University

2020

To National award for the excellent graduate student in Wuhan University

Kwang-Hua Scholarship, Kwang-Hua Education Foundation

2020

Scholarship to the excellent student

Second Prize of Outstanding Academic Scholarship, Wuhan University

2020

& Awards to outstanding student in academic in Wuhan University

Third Prize of Outstanding Academic Scholarship, Wuhan University

2015

Last updated: September, 2022

& Awards to outstanding student in academic in Wuhan University

Conferences, Workshops & Schools

The 2021 International Graduate Workshop on GeoInformatics

online

Peking University, Wuhan University, The Hong Kong Polytechnic University

Dec 2021

<u>Presentation:</u> "Quantifying the Bias in Place Emotion Extracted from Photos on Social Networking Sites: A Case Study on A University Campus"

National Doctoral Forum on Geospatial Modeling and Visualization of 2019 Wuhan, China

Wuhan Univeristy

Dec 2019

<u>Presentation:</u> "Emotional Bias in Big Data: Place Emotion Analysis between Cyberspace and Physical Space"

PUBLICATIONS

Papers reported in reverse chronological order

Peer-reviewed Journal Articles

- [1] Meng Bian, Shuyi Guo, Wei Wang, Yuhui Ouyang, **Yingjing Huang**, and Teng Fei. 2021. Next-day forecast of Beijing pollen concentration fused with vegetation remote sensing data——Implementing a nonlinear autoregressive neural network model with external input. Journal of Geo-Information Science, 2021,23(09):1705-1713. (in chinese)
- [2] Yingjing Huang, Teng Fei, Mei-Po Kwan, Yuhao Kang, Jun Li, Yizhuo Li, Xiang Li, and Meng Bian. 2020. GIS-Based Emotional Computing: A Review of Quantitative Approaches to Measure the Emotion Layer of Human–Environment Relationships. ISPRS International Journal of GeoInformation, 9, 551.
- [3] Yizhuo Li, Teng Fei, **Yingjing Huang**, Jun Li, Xiang Li, Fan Zhang, Yuhao Kang and Guofeng Wu. 2020. Emotional habitat: mapping the global geographic distribution of human emotion with physical environmental factors using a species distribution model. International Journal of Geographical Information Science, 1-23.
- [4] Yingjing Huang, Jun Li, Guofeng Wu and Teng Fei. 2020. Quantifying the bias in place emotion extracted from photos on social networking sites: A case study on a university campus. Cities, 102, 102719.
- [5] Shuangyin Zhang, Jun Li, Siying Wang, **Yingjing Huang**, Yizhuo Li, Yiyun Chen and Teng Fei. 2020. Repaid Identification and Prediction of Cadmium–Lead Cross-Stress of Different Stress Levels in Rice Canopy Based on Visible and Near-Infrared Spectroscopy. Remote Sensing, 12, 469.
- [6] Yiyun Chen, Tianci Qi, **Yingjing Huang**, Yuan Wan, Ruiying Zhao, Lin Qi, Chao Zhang, and Teng Fei. 2017. Optimization method of calibration dataset for VIS-NIR spectral inversion model of soil organic matter content. Transactions of the Chinese Society of Agricultural Engineering, 06, 107-114. (in chinese)

LEADERSHIP & COMMUNITY SERVICES

Journal Reviewer

- Journal of Urban Technology
- Landscape and Urban Planning
- IEEE Transactions on Human-Machine Systems

Yingjing Huang

Last updated: September, 2022

SKILLS

Programming Languages Python, Matlab, R, Javascript, LaTex

PackagesSklearn, TensorFlow, PytorchDatabasesMYSQL, SQLite, MongoDBGIS skillsArcGIS, QGIS, GeoPandas, Arcpy

Visualization Matplotlib, Seaborn, D3.js, Photoshop, CorelDraw, Kpler

OS Windows, Mac OS, Linux

LANGUAGES