Yingjing Huang

PH.D. CANDIDATE · GISER

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

Education

Peking University	*Beijing, China*
PH.D. IN GEOGRAPHIC INFORMATION SCIENCE	*Sep. 2021 - Present*
• Advisors: Lun Wu, Yu Liu, Yong Gao, Fan Zhang	
Wuhan University	*Wuhan, China*
MS. IN GEOGRAPHIC INFORMATION SCIENCE	*Sep. 2018 - Jun. 2021*
• Advisor: Teng Fei	
Wuhan University	*Wuhan, China*
BSC. IN GEOGRAPHIC SCIENCE	*Sep. 2013 - Jun. 2017*
• Advisors: Yiyun Chen, Teng Fei	

Experience

MIT Senseable City Lab	*Cambridge, US*
VISITING PH.D. STUDENT	*Jan. 2023 - Jan. 2024*
• Advisors: Carlo Ratti, Fábio Duarte	

Honors & Awards

2020	**"Excellent graduate student"**, National award for the excellent graduate student in Wuhan University	*Wuhan, China*
2020	**Kwang-Hua Scholarship**, Scholarship to the excellent student	*Wuhan, China*
2020	**Second-Class Scholarship**, Awards to outstanding student in academic in Wuhan University	*Wuhan, China*
2015	**Third-Class Scholarship**, Awards to outstanding student in academic in Wuhan University	*Wuhan, China*

Talks

Comprehensive Urban Space Representation with Varying Numbers of Street-Level Images	*Honolulu, US*
AMERICAN ASSOCIATION OF GEOGRAPHERS 2024 ANNUAL MEETING	*Apr. 2024*
• Oral Presentation	
Quantifying the bias in place emotion extracted from photos on social networking sites: A case study on a university campus	*Beijing, China*
2021 INTERNATIONAL GRADUATE WORKSHOP ON GEOINFORMATICS	*Dec. 2021*
• Oral Presentation (online)	

Publications

Papers reported in reverse chronological order
Peer-reviewed Journal Articles

[1] **Yingjing Huang**, Fan Zhang, Yong Gao, Wei Tu, Fabio Duarte, Carlo Ratti, Diansheng Guo, and Yu Liu. 2023. Comprehensive urban space representation with varying numbers of street-level images. Computers. *Environment and Urban Systems*, 106, 102043.

[2] Meng Bian, Shuyi Guo, Wei Wang, Yuhui Ouyang, **Yingjing Huang**, and Teng Fei. 2021. Nextday forecast of Beijing pollen concentration fused with vegetation remote sensing data——Implementing a nonlinear autore-

gressive neural network model with external input. *Journal of Geo-Information Science*, 2021,23(09):1705-1713. (in chinese)

[3] **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.

[4] 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.

[5] **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.

[6] 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.

[7] 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)

Community Services

Journal Reviewer

- Cities
- Computers, Environment and Urban Systems
- Landscape and Urban Planning
- Travel Behaviour and Society
- IEEE Transactions on Human-Machine Systems
- Journal of Urban Technology
- Journal of Transportation Engineering and Information

Skills

Programming	Python, Matlab, R, Javascript, LaTex
Packages	Sklearn, Tensor Flow, Pytorch
Databases	MySQL, SQLite, MongoDB
GIS skills	ArcGIS, QGIS, Geopandas, Arcpy
OS	Windows, Linux, Mac OS
Languages	Mandarin Chinese *(Native)*, English *(Advanced)*