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EDUCATION

- Ph.D.** Department of Geography, University of South Carolina, Columbia, South Carolina, USA.
- M.S.** School of City Planning & Architecture, Georgia Institute of Technology, Atlanta, Georgia, USA.
- B.S.** School of Remote Sensing and Information Engineering, Wuhan University, Wuhan, Hubei Province, China.

ACADEMIC APPOINTMENT

- 2020 Assistant Professor, Department of Geosciences, University of Arkansas, Fayetteville, Arkansas, USA
- 2016 Research and Teaching Assistant, Department of Geography, University of South Carolina, Columbia, South Carolina, USA.

RESEARCH INTERESTS

Geospatial analysis
Big data analytics
Spatial and social data mining
Remote sensing
GeoAI and Deep Learning

PUBLICATIONS

Refereed Journal Articles (published: #97, under review: #65)

Submitted [Huang, X.](#) [†], Wang, S., Lu, J., Xu, Y., Li, D., Li, X., Hu, T., & Ye, X. Homophily, a non-negligible force that drives human mobility (Under Review).

Wang, S. [†], [Huang, X.](#) [†], Hu, T., She, B., Zhang, M., Wang, R., Gruebner, O., Imran, M., Corcoran, J., & Liu, Y. A global multilingual portrait of expressed negativity against COVID-19 in social media space (Under Review).

CURRICULUM VITAE

- Lu, J., Huang, X., Xiao, X., Li, Z., Kupfer, J., Wei, H., Wang, S., & Zhu, L. Spatial, temporal, and social dynamics in visitation to US national parks before and during the COVID-19 pandemic: A big data approach (Under Review).
- Lu, K., Huang, X., Chen, Z., Chen, P., Pan, J., & Zhang, B. Change detection for high resolution imagery: cross attention is all you need (Under Review)
- Mu, S., Huang, X., Wang, M., Zhang, D., Xu, D., & Li, X. Optimizing pedestrian simulation via deep reinforcement learning (Under Review).
- Zhao, Y., Huang, X., & Zhu, X. Travel Behavior Resilience During the COVID-19: Evidence from 30 Metropolitans in the United States (Under Review).
- Wang, S., Huang, X., She, B., Li, Z., & Sigler, T. Changing landscape of restaurant visitations: the effect of COVID-19 on the restaurant industry in the United States (Under Review)
- Chen, J., Shao, Z., & Huang, X. Spatio-temporal dynamics on vegetation coverage in urban built-up areas: a case study of provincial capital cities in Mainland China (Under Review).
- Lv, X., Shao, Z., Huang, X., Persello, C., Ming, D., & Stein, A. Deep rule-driven region-merging approach for multiscale segmentation in high-resolution remote sensing imagery (Under Review).
- Wei, H., Zhu, L., Huang, X., Wang, S., & Lu, J. Are Urban parks in NYC for everyone? Implications from 1 million park visitation data (Under Review).
- Dang, C., Shao, Z., Huang, X., Cheng, G., Zhang, S., Xiong, W., Qian, J., Zhuang, Q., Wang, J., Ding, Q., Cai, B., Zhang, T., Xu, X., Cheng, J., & Lyu, C. PEE: A novel method to extract land surface vegetation phenology (Under Review).
- Yao, Y., Guo, Z., Huang, X., Ren, S., Hu, Y., Dong, A., & Guan, Q. Gauging urban resilience in the United States during the COVID-19 pandemic via social network analysis (Under Review)
- Sun, Y., Chen, J., & Huang, X. Multi-level Perceptual Network for Building Extraction from High-Resolution Remote Sensing Images (Under Review).
- Yan, Q., Zhao, W., Huang, X., & Lv, X. Automated Delineation of Smallholder Farm Fields using Fully Convolutional Networks and Generative Adversarial Network (Under Review).
- Dang, C., Shao, Z., Huang, X., Zhuang, Q., Cheng, G., Cai, B., Qian, J., & Chen, J. Comparison of the differences between vegetation greenness phenology and photosynthetic phenology (Under Review).
- Wang, S., Wang, R., Huang, X., Li, Z., & Hu, Y. An analytical framework to evaluate the effect of COVID-19 on the restaurant industry: a study of New York City (Under Review).
- Wang, S., Noland, R. B., Huang, X. (2021). Does ridersourcing provide equal accessibility? (Under Review).
- Jin, A., Chen, X., Huang, X., Li, Z., & Xu, R. Visualizing the selective daily mobility bias in the community food environment: Case of Hartford, Connecticut (Under Review).
- Cheng, X., Li, Z., & Huang, X. An information-theoretic approach for evaluating lossless compression techniques applied to remotely sensed images (Under Review).

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- Liu, X., Yang, S., Huang, X., An, R., Xiong, Q., & Ye, T. Quantifying COVID-19 pandemic recovery through human mobility perspective: an intra-city study with the one-wave complete process in Wuhan (Under Review).
- Dang, C., Shao, Z., Huang, X., Cheng, G., & Qian, J. Urbanization advances spring phenology but high urbanization delays spring phenology (Under Review).
- Tian, B, Nong, J., Huang, X., & Liao, Q. Changes in spatiotemporal patterns of birds under the COVID-19 pandemic and its indicators for urban ecological planning: a case study of Hong Kong (Chinese) (Under Review).
- Chen, J., Shao, Z., Huang, X., Dang, C., & Zhuang, Q. Vegetation as catalyst for water circulation on global terrestrial ecosystem (Under Review).
- Kafym, A., Faisal, A., Huang, X., Rakib, A., Jahir, D., Rahaman, Z., Fattah, A., & Rahman, M. Assessing land use/land cover indices for environmental management using remote sensing techniques (Under Review).
- Chen, J., Shao, Z., Huang, X., Zheng, X., Zhuang, Q., Dang, C., Cai, B., & Ding, Q. Assessment of the synergistic drought-land cover change interactions on global vegetation greenness and carbon sink (Under Review).
- Dang, C., Shao, Z., & Huang, X. Climate warming-induced phenology changes dominate vegetation carbon uptake in the Northern Hemisphere (Under Review).
- Dang, C., Shao, Z., Huang, X., Qian, J., Cheng, G., Zhang, S., Xiong, W., & Fan, Y. A new distance-based phenology extraction (DBPE) method using solar chlorophyll fluorescence (Under Review).
- Wang, J., Shao, Z., Huang, X., Lu, T., Zhang, R., & Bai, L. A lightweight deep unfolding method for satellite imagery super-resolution (Under Review).
- Ning, X., Zhang, H., Shao, Z., Huang, X., Wang, H., Zhang, R., & Hao, M. Sustainability evaluation of Chinese capital cities based on urban geographic environment index (Under Review).
- Zhuang, Q., Shao, Z., Li, D., Huang, X., Cai, B., Zhang, Y., Xu, X., Cheng, T., Ding, Q., Dang, C., Feng, X., Liang, W., Chen, J., Altan, O., Wu, S., & Feng, X. Global impervious surface area expansion weakens the growth rate of vegetation carbon sequestration capacity (Under Review).
- Ye, X., Gao, G., Li, S., Huang, X., Ning, H., Retchless, D., & Li, Z. Exploring flood mitigation governance by estimating first-floor elevation via deep learning and google street view in coastal Texas (Under Review).
- Wang, S., Sun, Q., Tao, Y., Huang, X., Dong, C., Das, S., & Liu, Y. Heat health risk assessment in Australian cities based on Earth observation, health, and socio-ecological data (Under Review).
- Wu, L., He, Q., Zhu, C., Huang, X., & Ye, X. Direction-Specific Human Mobility Improves Crime Modelling: Evidence from Houston (Under Review)
- Liu, Z., Liu, J., Chen, P., Wang, M., Huang, X., & Yang, L. Effects of calendar events on the relationship between built environment and metro ridership: a big data analysis in Shenzhen, China (Under Review)
- Ding, Q., Shao, Z., Huang, X., Altan, O., Deng, X. A novel transfer learning based convolutional neural network for unsupervised change detection in multispectral images (Under Review).

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- He, Y., Seminara, P.J., Huang, X., Yang, D., Fang, F., & Xu, R. A spatial analysis of empirical association of health, socioeconomic, demographic, and environmental factors with COVID-19 in Arkansas, U.S. (Under Review).
- Cheng, X., Hu, E., Huang, X., Hu, D., & Zhu, A. Integrating structural description of data format information into programming to auto-generate reading programs for geographical data files (Under Review).
- Cheng, G., Shao, Z., Wang, J., Huang, X., & Dang, C. Dual-branch multi-level feature aggregation network for pansharpening (Under Review).
- Wu, X., Deng, X., & Huang, X. Analysis of urban spatial structure in western Guangdong based on point of interest big data (Under Review).
- Deng, Y., Shao, Z., Dang, C., Huang, X., & Zhuang, Q. Policy impact on the dynamics of land cover and ecosystem services in Poyang Lake, China (Under Review).
- Li, D., Peng, H., Xu, X., Huang, X., Liu, J., & Shao, Z. Prospects on information retrieval based on remote sensing image sharing ontology (Under Review).
- Zhuang, Q., Shao, Z., Kong, L., Huang, X., Li, Y., Yan, Y., Wu, S. Assessing the effects of agricultural management practices and land use changes on soil organic carbon stocks (Under Review).
- Wang, Z., Lam, N., Sun, M., Huang, X., Shang, J., Zou, L., Wu, Y., & Mihunov, V. A machine learning approach for detecting rescue requests from social media (Under Review).
- Shao, Z., Wang, J., Deng, L., Huang, X., Lu, T., Luo, F., Zhang, R., Lv, X., Ding, Q., and Wang, Z. GLSD: The Global Large-Scale Ship Database and Baseline Evaluations (Under Review).
- Cai, B., Shao, Z., Fang, S., Huang, X., Tang, Y & Zhuang, Q. Spatiotemporal analysis of human-earth relationship coordination involved in urban-rural transition (Under Review).
- Wang, X., Li, D., Huang, X. & Shao, Z. A systematic review on remote sensing of urban heat island (Under Review).
- Shao, Z., Pan, W., Huang, X., Li, Y. & Peng, S. Video stabilization for improved video anomaly detection (Under Review).
- Feng, X., Shao, Z., & Huang, X. Refined impervious surface extraction via fused hyperspectral multispectral images (Under Review).
- Sun, Y., Shao, Z., Huang, X., Cheng, G., & Wang, Z. UAV Road and Cars Extraction of Complex Urban Scenes Using Efficient Dual Multiscale Attention Networks (Under Review)
- Zhang, Y., Shao, Z., Feng, X., Huang, X., Zhou, Z., Li, Y. Comparison of the influence of spatial configuration of green space and urban impervious surface temperature at multi-grid scales (Under Review).
- Wang, J., Shao, Z., Huang, X., et al. NSN: Deep Non-local Self-regression Networks for Satellite Image Super-resolution (Under Review).
- Yu, W., Shao, Z., & Huang, X. Fine-Grained multiscale community detection of urban agglomeration from human interactive network using big signaling data (Under Review).
- Shao, Z., Li, Y., Huang, X., Cai, B., Ding, L., Pan, W., Zhang, Y. Monitoring urban ecosystem service value using multi-level regular grids (Under Review).

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- Shao, Z., Liu, L., Huang, X., Altan, O. & Javed, A. Urban Impervious Surface Monitoring from Time-series of High-Resolution Remote Sensing Images with Time-invariant Spectral Features (Under Review).
- Xin, Y., Kang, Y., Li, L., Huang, X., & Gao, S. Quantifying social segregation on accessibility to public health resources (Under Review).
- Chukwu, M., Oloruntimilehin, I., & Huang, X. Flood risk evaluation in Ethiopia local government area, Nigeria using AHP-based model and GIS technique (Under Review).
- Zhang, R., Zhang, H., Ning, X., Huang, X., Wang, J., & Cui, W. Global-aware siamese network for change detection on remote sensing images (Under Review).
- Zhuang, Q., Shao, Z., Li, D., Huang, X., Zhang, Y., Xu, X., Dang, C., Cheng, J., Altan, O., & Wu, S. Modelling carbon storage in urban vegetation: progress, challenges, and opportunities (Under Review).
- Li, M., Li, X., Wu, D., Zou, L., & Huang, X. Digitizing and inventorying traffic control infrastructures: a review of practices (Under Review).
- Gong, X., Peng, S., Lu, Y., Wang, S., Huang, X., & Ye, X. Social network analysis of nonprofits in disaster response: the case of Twitter during the COVID-19 pandemic in the United States (Under Review).
- He, Y., Connolly, M., Xu, R., Huang, X., Wang, Z., Arreguin, M., & Rhodes, C. Irrigation-induced nighttime warming declining soybean yields in the Arkansas Delta of the U.S (Under Review).
- Li, H., Mao, D., Li, X., Wang, Z., Yan, H., & Huang, X. China achieved effective control on *Spartina alterniflora* invasion from 2015 to 2020 (Under Review).
- Li, X., Martin, M., Samant, S., Dadashova, B., & Huang, X. Toward a crowdsourcing solution to estimate border crossing times using market-available connected vehicle data (Under Review).
- Li, H., Jia, M., Li, X., Wang, Z., & Huang, X. Quantification of changes in ecosystem service in Liaoning Province, China as a result of climate variability and land cover change (Under Review).
- Xing, R., Zhu, L., Du, W., Wells, M., Sun, Y., Huang, X., Wei, H., Huang, Z., Liu, P., and Rao, J. A Novel Approach for Volatility Prediction with Financial News (Under Review).
- Ding, Y., Ding, Q., Yang, J., Shao, Z., & Huang, X. A new piecewise radar impervious surface index (PRISI) for urban monitoring using Sentinel-1 satellite imagery (Under Review).
- Wang, S., Cai, W., Tao, Y., Sun, Q., Wong, P.P.Y, Thongking, W., & Huang, X. Nexus of heat-vulnerable chronic diseases and heatwave mediated through tri-environment interactions: a nationwide fine-grained study in Australia (Under Review).
- 2022 Huang, X., Xu, Y., Liu, R., Wang, S., Wang, S., Zhang, M., Kang, Y., Gao, S., Zhao, B., Li, Z. (2022). Exploring home-dwelling time patterns during the COVID-19 pandemic via Bayesian inference: policy compliance, spatial disparity, and exposed inequity. *Transactions in GIS*. doi: 10.1111/TGIS.12918.
- Huang, X., Hu, T., Wang, S., Hohl, A., Li, Z., Ye, X., Zhang, M., & Bao, S. (2022). Social media mining under the COVID-19 context: current progress, available sources,

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challenges, and our paths forward, *International Journal of Applied Earth Observations and Geoinformation*. doi: 10.1016/j.jag.2022.102967.

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- Huang, X., Martin, Y., Wang, S., Zhang, M., Ge, Y., & Li, Z. (2022). The promise of excess mobility analysis: measuring episodic-mobility with geotagged social media data. *Cartography and Geographic Information Science*. doi: 10.1080/15230406.2021.2023366.
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- Orire, A. M., Huang, X., Oloyede, O. I., Ayo, B., Raheem, W. A., & Chukwu, M. (2022). Spatio-temporal change detection of built-up areas in Ilorin metropolis and implications for green space conservation. *Papers in Applied Geography*. doi: 10.1080/23754931.2022.2062574.
- Wu, W., Huang, X., Shao, Z., Teng, J., Li, D. (2022). SAR-DRDNet: A SAR Image Despeckling Network with Detail Recovery. *Neurocomputing*, doi: 10.1016/j.neucom.2022.04.066.
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- Wang, S., Huang, X.[†], Hu, T., Corcoran, J., Zhang, M., Li, Z., Ning, H, Khan, A., & Liu, Y[†] (2022). The times they are changing: tracking the shifts in mental health signals in Australia before, during and post the COVID-19 pandemic. *BMJ Global Health*. doi: 10.1136/bmjgh-2021-007081.
- Han, Y., Huang, X., Ye, X., & Dadashova, B. (2022). Adaptation planning and hazard mitigation for interdependent infrastructure systems to enhance urban resilience under climate change. *Landscape Architecture Frontiers*, doi: 10.15302/J-LAF-1-030031.
- Li, X., Huang, X., Li, D., & Yang, X. (2022). Aggravated social segregation during the COVID-19 pandemic: evidence from crowdsourced mobility data in twelve most populated metropolitan areas. *Sustainable Cities and Society*, doi: 10.1016/j.scs.2022.103869.
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- Ding, Q., Shao, Z., Huang, X., Altan, O. & Hu, B. (2022). Time-series land cover mapping and urban expansion analysis using OpenStreetMap data and remote sensing big data: A case study of Guangdong-Hong Kong-Macao Greater Bay Area, China.

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- International Journal of Applied Earth Observations and Geoinformation*, doi: 10.1016/j.jag.2022.103001.
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- Gu, Y., Shao, Z., Huang, X., Fu, Y., Gao, J., & Fan, Y. (2022). Assessing the Impact of Land Use Changes on Net Primary Productivity in Wuhan, China. *Photogrammetric Engineering & Remote Sensing*, 88(3), 189-197.
- Wang, J., Shao, Z., Huang, X., Lu, T., Zhang, R., & Li, Y. (2022). From Artifact Removal to Super-Resolution. *IEEE Transactions on Geoscience and Remote Sensing*. doi: 10.1109/TGRS.2022.3196709.
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- Wang, S., Zhang, M., Huang, X., Hu, T., Li, Z., Sun, Q., & Liu, Y. (2022). Urban-regional disparities in mental health signals in Australia during the COVID-19 pandemic: a study via Twitter data and machine learning models, *Cambridge Journal of Regions, Economy and Society*, doi:10.1093/cjres/rsac025.
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- Zhuang, Q., Wu, S., Huang, X., Kong, L., Yan, Y., Xiao, H., ... & Cai, P. (2022). Monitoring the impacts of cultivated land quality on crop production capacity in arid regions. *CATENA*, 214, 106263.
- Li, X., Yu, S., Huang, X., Dadashova, B., Cui, W., & Zhang, Z. (2022). Do underserved and socially vulnerable communities observe more crashes? A spatial examination of social vulnerability and crash risks in Texas. *Accident, Analysis and Prevention*. Doi:10.1016/j.aap.2022.106721.
- Wang, J., Shao, Z., Huang, X., Lu, T., Zhang, R., & Cheng, G. (2022). Pan-Sharpener via Deep Locally Linear Embedding Residual Network. *IEEE Transactions on Geoscience and Remote Sensing*, 60, 1-13.
- Shao, Z., Ding, Q., Huang, X., & Altan Orhan. (2022). Improving urban land cover mapping with the fusion of optical and SAR data based on feature selection strategy. *Photogrammetric Engineering & Remote Sensing*. doi:10.14358/PERS.21-00030R2.
- Zhang, R., Shao, Z., Huang, X., Wang, J., Wang, Y., & Li, D. (2022). Adaptive Dense Pyramid Network for Object Detection in UAV Imagery. *Neurocomputing*. doi: 10.1016/j.neucom.2022.03.033.
- Feng, X., Shao, Z., Huang, X., Hu, L., Lv, X., Zhuang, Q. (2022). Integrating Zhuhai-1 Hyperspectral Imagery with Sentinel-2 Multispectral Imagery to Improve High-Resolution Impervious Surface Area Mapping. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*. doi: 10.1109/JSTARS.2022.3157755.
- Wang, X., Shao, Z., Huang, X., & Li, D. (2022). Spatiotemporal Temperature Fusion Based on a Deep Convolutional Network. *Photogrammetric Engineering & Remote Sensing*, 88(2), 93-101.
- Fu, H., Shao, Z., Cheng, T., Huang, X., & Peng, F. (2022). Combining ATC and 3D-CNN for reconstructing spatially and temporally continuous land surface temperature.

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- Wu, W., Shao, Z., Teng, J., Huang, X., Zhao, X., & Guo, S. (2022). Urban Impervious Surface Extraction Using Seasonal Time Series SAR Images, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*. doi: 10.1109/JSTARS.2022.3193137.
- Pan, J., Cui, W., An, X., Huang, X., Zhang, H., Zhang, S., Zhang, R., Li, X., Cheng, W., and Hu, Y. (2022). MapsNet: Multi-attention mechanism feature constrained pixel-shuffle image fusion network for change detection in high resolution satellite image. *International Journal of Applied Earth Observation and Geoinformation*. doi: 10.1016/j.jag.2022.102676.
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- Cai, B., Shao, Z., Fang, S., Huang, X., Tang, Y., Zheng, M., & Zhang, H. The evolution of urban agglomerations in China and how it deviates from Zipf's law. *Geo-spatial Information Science* (Accepted).
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- Cheng, G., Shao, Z., Wang, J., Huang, X., & Dang, C. (2022). Dual-branch Multi-level Feature Aggregation Network for Pansharpening, *IEEE/CAA Journal of Automatica Sinica* (Accepted).
- Cai, B., Shao, Z., Fang, S., & Huang, X. (2022). Quantifying dynamic coupling coordination degree of human-environmental interactions during urban-rural transitions of China, *Land*, doi: 10.3390/land11060935.
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- 2021 Huang, X.[†], Zhu, D., Zhang, F., Liu, T., Li, X., & Zou, L (2021). Sensing population distribution from satellite imagery via deep learning: model selection, neighboring effect, and systematic biases. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*. doi: 10.1109/JSTARS.2021.3076630.
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- Xu, D., Huang, X., & Li, Z. Multi-Exit Evacuation Simulation based on Deep Reinforcement Learning. (2021). *Transactions in GIS*. doi: 10.1111/tgis.12738.
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- Zhang, R., Newsam, S., Shao, Z., Huang, X., Wang, J. & Li, D. (2021). Multi-Scale Adversarial Network for Vehicle Detection in UAV Imagery. *ISPRS Journal of Photogrammetry and Remote Sensing*. doi:10.1016/j.isprsjprs.2021.08.002.
- Hu, T., Wang, S., Luo, W., Zhang, M., Huang, X., Yan, Y., Liu, R., Ly, K., Kacker, V., She, B., Li, Z. (2021). Revealing public opinion towards COVID-19 vaccines with Twitter data in the United States: a spatiotemporal perspective. *Journal of Medical Internet Research*. doi: 10.2196/30854.
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- 2020 Huang, X., Li, Z., Jiang, Y., Li, X., & Porter, D. (2020). Twitter reveals human mobility dynamics during the COVID-19 pandemic. *PLOS ONE*, 15(11), e0241957.
- Huang, X.[†], Li, Z., Lu, J., Wang, S., Wei, H., & Chen, B. (2020). Time-series clustering for home dwell time during COVID-19: what can we learn from it?. *ISPRS International Journal of Geo-Information*, 9(11), 675.
- Huang, X.[†], & Wang, C. (2020). Estimates of exposure to the 100-year floods in the conterminous United States using national building footprints. *International Journal of Disaster Risk Reduction*, doi: 10.1016/j.ijdrr.2020.101731.
- Huang, X., Wang, C., Li, Z., & Ning, H. (2020). A 100 m population grid in the CONUS by disaggregating census data with open-source Microsoft building footprints. *Big Earth Data*, 10.1080/20964471.2020.1776200.
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- Ning, H., Huang, X., Wang, C., & Li, Z. (2020). Detection new building construction in urban areas based on images of small unmanned aerial system. *Papers in Applied Geography*, doi: 10.1080/23754931.2019.1707108.
- Zhang, R., Shao, Z., Huang, X., Wang, J., & Li, D. (2020). Object Detection in UAV Images via Global Density Fused Convolutional Network. *Remote Sensing*, 12(19), 3140.
- Lu, J., Carbone, G. J., Huang, X., Lackstrom, K., & Gao, P. (2020). Mapping the sensitivity of agriculture to drought and estimating the effect of irrigation in the United States, 1950–2016. *Agricultural and Forest Meteorology*, 292, 108124.
- 2019 Huang, X.[†], Wang, C. Lu, J., & Ning, H. (2019). Understanding spatiotemporal development of human settlement in hurricane-prone areas on U.S. Atlantic and Gulf Coasts using nighttime remote sensing, *Natural Hazards and Earth System Sciences*, doi: 10.5194/nhess-19-2141-2019.
- Huang, X.[†], Wang, C. Li, Z., & Ning, H. (2019). Identifying disaster related social media for rapid response: a visual-textual fused CNN architecture. *International Journal of Digital Earth*, doi: 10.1080/17538947.2019.1633425.
- 2018 Huang, X.[†], Wang, C. Li, Z., & Ning, H. (2018). A visual-textual fused approach to automated tagging of flood-related tweets during a flood event. *International Journal of Digital Earth*, doi: 10.1080/17538947.2018.1523956.
- Huang, X.[†], Wang, C., & Li, Z. (2018). Reconstructing flood inundation probability by enhancing near real-time imagery with real-time gauges and tweets. *IEEE Transactions on Geoscience and Remote Sensing*, 56(8), 4691-4701.
- Huang, X.[†], Wang, C., & Li, Z. (2018). A near real-time flood-mapping approach by integrating social media and post-event satellite imagery. *Annals of GIS*, 24(2), 113-123.

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- Wang, C., Li, Z., & Huang, X. (2018). Geospatial Assessment of Wetness Dynamics in the October 2015 SC Flood with Remote Sensing and Social Media. *Southeastern Geographer*, 58(2), 164-180.
- Li, H., Wang, C., Huang, X., & Hug, A. (2018). Spatial Assessment of Water Quality with Urbanization in 2007–2015, Shanghai, China. *Remote Sensing*, 10(7), 1024.

Book Chapters (#5)

- 2022 Huang, X., Zhang, R., Li, X., Dadashova, B., Zhu, L., Zhang, K., Li, Y., & Shen, B. “Health-based geographic information system for mapping and risk modeling of infectious diseases and COVID-19 to support spatial decision making”. In *Translational Informatics -Prevention and Treatment of Viral Infections*. Springer, Singapore, doi: 10.1007/978-981-16-8969-7_8.
- Huang, X., Wang, S., & Li, X. “The inequities in the United States during the COVID-19 pandemic”. In *The Geographies of COVID19—Geospatial Stories of a Global Pandemic*. Springer Cham, doi: 10.1007/978-3-031-11775-6_8.
- Huang, X., Li, X., Yang, D., Zou, L. Challenges and opportunities of crowdsourcing geospatial data in Earth and human observations. In *GeoInformatics for Geosciences Advanced Geospatial Analysis using RS, GIS & Soft Computing* (In press)
- 2021 Young, S. G., Datta, J., Kar, B., Huang, X., Williamson, M. D., Tullis, J. A. & Cothren, J. “Challenges and limitations of geospatial data and analyses in the context of COVID-19”. In *Mapping COVID-19 in Space and Time* (pp. 65-76). Springer, Cham, doi: 10.1007/978-3-030-72808-3_8.
- 2020 Huang, X., Wang, C., Li, Z., & Ning, H. A visual–textual fused approach to automated tagging of flood-related tweets during a flood event. In *Social Sensing and Big Data Computing for Disaster Management*. Routledge, doi: 10.4324/9781003106494-4.

Peer Reviewed Conference Proceedings (#5)

- 2021 Wang, J., Shao, Z., Huang, X., Lu, T., Zhang, R. & Wang, Z. (2021). Unsupervised Remote Sensing Super-Resolution via Migration Image Prior. IEEE International Conference on Multimedia and Expo (ICME) 2021. 10.1109/ICME51207.2021.9428093.
- Wang, J., Shao, Z., Huang, X., Lu, T. & Zhang, R. (2021). Pan-sharpening via high-pass modification convolutional neural network. IEEE International Conference on Image Processing (ICIP) (In production).
- 2020 Huang, X.[†], Xu, D., Li, Z., & Wang, C. (2020). Translating multispectral imagery to nighttime imagery via conditional generative network. 2019 IEEE International Geoscience and Remote Sensing Symposium, Waikoloa, HI, USA, 2020, pp. 6758-6761, doi: 10.1109/IGARSS39084.2020.9323669.
- 2019 Huang, X.[†], Wang, C., & Li, Z. (2019). Linking picture with text: tagging flood relevant tweets for rapid flood inundation mapping. Proceedings of the International Cartographic Association, 2, 45, doi: 10.5194/ica-proc-2-45-2019.
- Huang, X.[†], Wang, C., & Li, Z. (2019). High-Resolution Population Grid in the CONUS using Microsoft Building Footprints: A Feasibility Study. Proceedings of the 3rd ACM SIGSPATIAL Workshop on Geospatial Humanities, doi: 10.1145/3356991.3365469.

CURRICULUM VITAE

Huang, X.[†], & Wang, C. (2019). Human settlement dynamics in hurricane-prone zones of CONUS: view from nighttime remote sensing perspective. 2019 IEEE International Geoscience and Remote Sensing Symposium, doi: 10.1109/IGARSS.2019.8899106.

Other Publications (#3)

- 2020 Huang, X.[†] (2020). Remote Sensing and Social Sensing for Improved Flood Awareness and Exposure Analysis in the Big Data Era. (Doctoral dissertation). Retrieved from <https://scholarcommons.sc.edu/etd/585>.
- 2019 Huang, X.[†] (2019). The fusion of remote sensing and social sensing in rapid flood mapping: motivation, opportunities and challenges, U.S. National Report (U.S. National Committee for the International Cartographic Association): <https://cartogis.org/usnc-ica/us-national-report/>.
- 2017 Huang, X.[†] (2017). A Future Energy Harvesting Scenario for Georgia Tech Campus Using Photovoltaic Solar Panels and Piezoelectric Materials. MS-GIST Capstone Paper, Georgia Institute of Technology.

AWARDS, GRANTS, AND SCHOLARSHIPS

External Grants

- Pending Centers for Medicare and Medicaid Services (CMS) Minority Research Grant Program (MRGP). Co-PI (with PI Ayodeji Iyanda, Co-PIs Xinyue Ye, Temilola Salami, and Dongying Li). Project: *Investigating the combined impact of spatial social networks and environmental exposure on minority youths' mental health in the context of COVID-19* (\$200,000)
- NSF Humans, Disasters, and the Built Environment (HDBE). Co-PI (with PI Rui Liu, Co-PIs Shigang Chen, Yixin Wei, Jeffery Lindsey). Project: *Improving Evacuation Situation Awareness and Decision Making: A Smart eVacuation Emergency Real-time System (SAVER)* (\$450,000)
- U.S. Department of Transportation (DOT) University Transportation Centers (UTC). Co-PI (PI Xing Wu; Co-PIs Qianwen Guo, Xinyue Ye, and Yueqing Li) Center for Transportation Infrastructure Resilience and Sustainability (CTIRS) (\$2,000,000).
- 2022 NSF Data Analytics that are Robust and Trusted (DART) Seed Grant. Sole-PI. Project: *CI: AI-supported Cyberinfrastructure for Scalable Flood Resilience Assessment* (\$96,000)
- 2021 NASA SMD Computational and Information Sciences and Technology Office. Co-PI (with PI Di Yang). Grant #80NSSC21M0177. Project: *Assessing and Qualifying Citizen Science Labeling for Training Data for GLOBE Observer Mosquito and Land Cover Protocols Improving Data Quality within the GLOBE Observer Community* (\$93,824).
- NASA EPSCoE Research Infrastructure Development (RID). Co-PI (with PI Yaqian He and Co-PI Matthew Connolly). Grant #80NSSC19M0066. Project: *Quantifying impacts of irrigation and the consequent climate variability on crop yield in North Arkansas*. (\$40,000).
- 2019 Travel Grant, Japan Local Organizing Committee to the International Cartographic Association, for the participation in the bi-annual International Cartographic Conference (ICC 2019). (¥100,000)
- Travel Grant, U.S National Committee (USNC) to the International Cartographic Association, for the participation in the bi-annual International Cartographic Conference (ICC 2019). (\$2000)

CURRICULUM VITAE

Internal Grants

- 2019 The SPARC Graduate Research Grant, sponsored by the Office of the Vice President for Research, University of South Carolina. Co-PI. Funded project: *A Deep Learning Supported Flood Mapping Framework that Integrates Remote Sensing and Social Sensing*. (\$5000)
- Teaching Resource Development Grant, Center for Teaching Excellence, University of South Carolina. (\$750)

Not funded

- 2022 NSF Biodiversity on a Changing Planet (BoCP). Co-PI (with PI Di Yang). Project: *BoCP-Design: US-China: Linking Organisms, Mechanisms and Processes for Supporting Standardized Biodiversity Monitoring During Alpine Treeline Shifts under Global Climate Change (\$500,000)*.
- NSF Artificial Intelligence on Sustainable Energy Infrastructure Network (AI SUSTEIN). PI. Project: *AI-supported Construction of Residential Rooftop Solar Deployment Database in EPSCoR Jurisdictions (\$15,000)*
- NSF Human-Environment and Geographical Sciences Program (HEGS). PI (with Co-PIs Lei Zou, Rui Liu, and Dantong Yu) *Understanding the transitions of spatial/social interactions in the post-pandemic era via big geospatial data (\$400,000)*.
- NSF CIVIC Innovation Challenge. Co-PI (with PI Rui Liu, Co-PIs Elizabeth Carnahan, Andrea Galinski, and Zhenlong Li). Project: *Scalable Scenario-based Assessment for Community-level Flood Resilience and Adaptation Strategies (\$1,000,000)*.
- Google Research Program Grant. PI (with Co-PI Lei Zou). Project: *Assessing the long-term impact of COVID-19 on spatial/social interactions via big geospatial data using resilience frameworks and network theories (\$60,000)*.
- 2022 Summer Research Stipends, Office of Diversity & Inclusion, University of Arkansas. PI. Project: *Assessing the long-term impact of COVID-19 on spatial/social interactions via big geospatial data (\$5,000)*.
- Russell Sage Foundation, Trustee Grants, Program: Social, Political, and Economic Inequality. PI (with Co-PI Bo Zhao). Project: *Black businesses Matter: Investigating the impact of COVID-19 pandemic on Black-owned Restaurants in the U.S. and their post-pandemic recovery (\$195,000)*.

Awards, Honors, and Fellowships

- 2021 IEEE Young Professional Rising Star
- 2019 Second Place in Student Paper Competition, the 42nd of the Applied Geography Conference, Charlotte, NC, October 23-25.
- Breakthrough Graduate Scholar, University of South Carolina.
- The Paul E. Lovingood Graduate Research Award.
- Second Place in Robert Raskin Student Paper Competition, American Association of Geographers (AAG) Cyberinfrastructure Specialty Group (CISG), Washington, DC, April 3-April 7.
- 2018 Second Place in Remote Sensing Specialty Group (RSSG) Student Paper Competition, American Association of Geographers (AAG), New Orleans, LA, April 10-April 14.
- 2017 First Place Student Paper Award, the 25th International Conference on GeoInformatics, Buffalo, OH, August 3.

CURRICULUM VITAE

- 2013 National Second-Class Scholarship, Wuhan University (WHU). (\$500)
2012 National Second-Class Scholarship, Wuhan University (WHU). (\$500)

CONFERENCES

Selected Oral Presentations (* for presenting author)

- 2022 Huang, X.*. 2022. *Large-scale Population Distribution Modeling using Building Footprints and Deep Learning Techniques*, The 29th International Conference on Geoinformatics, Beijing, China, August 15-18 (forthcoming).
- Huang, X.*. 2022. *Sensing population distribution from satellite imagery via deep learning: model selection, neighboring effect, and systematic biases*, American Association of Geographers (AAG) Annual Meeting, New York City, NY, February 25-March 1.
- Yang, D. *, & Huang, X.*. A Meta-Learning Framework for Characterizing and Accessing Training Data for GLOBE Observer Mosquito and Land Cover Protocols. NASA's Artificial Intelligence Center of Excellence (AICOE) Seminar, April 20 (virtual).
- Wang, S.*, Huang, X., & Shen, Q. Trends in Travel Demand of Ridesourcing during the Pandemic and Factors of Land Use: A Time-Series Clustering Analysis on Chicago Data, the 2022 Association of Collegiate Schools of Planning (ACSP) 62nd Annual Conference, Toronto, Ontario Canada, November 3-6.
- Wang, C.*, and Huang, X. 2022. *Big Earth Data: Fine-scale Population Grid from Census and Open Source Satellites*, the 2022 National Big Data Health Science Conference, February 11-12 (Virtual).
- 2021 Wang, S.*, Liu, Y, Li, Z., Huang, X., & Hu, T. 2021. *The impact of the COVID-19 pandemic on mental health in Australia: spatial disparity, social inequity, and unbalanced healthcare access*. The Regions, Economy and Society in the Post-COVID World Online Conference, Cambridge Journal of Regions, Economy and Society, September 17.
- Sharman, G. *, Johnson, I., Huang, X., & Szymanski, E. Predicting sand mineralogy within cordilleran orogenic systems: machine learning applied to a global database of modern-pleistocene sand samples. 2021 Geological Society of America Annual Conference, Portland, OR, October 10-13.
- Wang S.*, Wang, R., Huang, X., & Li, Z. 2021. *An analytical framework to evaluate the effect of COVID-19 on the restaurant industry: a study of New York City*. International Symposium on Geospatial Approaches to Combating Covid-19, Florence, Italy, December 13-14.
- Huang, X.*. 2021. *COVID-19 exposes the long-standing social inequity issues in the U.S.*, Symposium on Human Dynamics Research: Emerging Urban-Geo Big Data in Transportation Research, American Association of Geographers (AAG) Annual Meeting, April 11 (virtual).
- Wang, S. *, Noland, R., & Huang, X. 2021. *Does ridesourcing provide equitable accessibility?*. 2021 Association of Collegiate Schools of Planning (ACSP) Annual Conference, Miami, FL, October 7-9.
- Sharman, G. *, Johnson, I, Huang, X., & Szymanski, E. 2021. *Predicting sand mineralogy within Cordilleran orogenic systems: Machine learning applied to a global database of modern-Pleistocene sand samples*. 2021 Geological Society of America Annual Conference, Portland, OR, October 10-13.

CURRICULUM VITAE

- Johnson, I. *, Sharman, G., Huang, X., & Syzmanski, E. 2021. *Machine learning applied to petrographic database: introducing the global prediction of sand minerology (GloPrSM)*. 2021 Geological Society of America Annual Conference, Portland, OR, October 10-13.
- Wang, S. *, Noland, R., & Huang, X (invited). 2021. *Does ridersourcing provide equitable accessibility?*. Invited presentation at the 2021 World Symposium on Transport and Land Use Research (WSTLUR) conference, August 9-13 (virtual).
- 2020 Huang, X.*, Xu, D., Li, Z., & Wang, C. 2020. *Translating multispectral imagery to nighttime imagery via conditional generative adversarial network*. 2020 IEEE International Geoscience and Remote Sensing Symposium, Waikoloa, Hawaii, USA, July 19 - July 24 (virtual).
- 2019 Huang, X.* (invited panelist). 2019. *Deep learning in social media retrieval for rapid flood mapping*. U.S. Geological Survey: leveraging Crowdsourcing, Citizen Science, and Social Media to Produce Volunteer Geographic Information (VGI) for Hazard Science, Disaster Research, and Emergency Management, D.C, April 6.
- Huang, X.* (invited speaker). 2019. *Combining virtual geographic environment and fieldwork to promote efficient learning in Geography*. Oktoberbest: A Celebration of Teaching, UoSC Russell House, October 18.
- Huang, X.*, & Wang, C. 2019. *Social media data mining in supporting rapid flood inundation mapping*. The 74th Annual Meeting of SouthEastern Division of the American Association of Geographers, Wilmington, NC, November 24 - 25.
- Huang, X.*. 2019. *Generating population grid in the CONUS by disaggregating census population with Microsoft building footprints*. The 74th Annual Meeting of SouthEastern Division of the American Association of Geographers, Wilmington, NC, November 24 - 25.
- Huang, X.*, Wang, C., & Li, Z. 2019. *High-Resolution Population Grid in the CONUS using Microsoft Building Footprints: a feasibility study*. The 3rd ACM SIGSPATIAL Workshop on Geospatial Humanities, Chicago, IL, November 5 - 8.
- Huang, X.*. 2019. *A high-resolution population grid in the CONUS based on Microsoft building footprints and its potentials in hazard studies*. Applied Geography Conference, Charlotte, NC, October 23 - 25.
- Huang, X.*, Wang, C., & Li, Z. 2019. *Linking picture with text: tagging flood relevant tweets for rapid flood inundation mapping*, 2019 International Cartographic Conference, Tokyo, Japan, July 15 - 20.
- Huang, X.*, Li, Z, & Wang, C. 2019. *Identifying disaster related social media for rapid response: a visual-textual fused approach*, AAG Annual Meeting, AAG Cyberinfrastructure Specialty Group (CISG), DC, April 3 - 7.
- Wang, C.*, Morgan, G., Hodgson, M., Huang, X. 2019. *Drone based 3D Tree Structure Surveying on Earth Dams to Assist Dam Safety*. The 74th Annual Meeting of SouthEastern Division of the American Association of Geographers, Wilmington, NC, November 24 - 25.
- 2018 Wang, C.*, & Huang, X. 2018. *Integration of social sensing and remote sensing for situation awareness of coastal floods*. The 3rd Conference of Digital Belt and Road (DBAR), Tengchong, Yunnan Province, China, December 5 - 7.
- Wang, C.*, & Huang, X. 2018. *Rapid flood inundation mapping via integrated social sensing and Earth sensing*. 2018 SEDAAG Annual Meeting, Johnson City, TN, November 8 - 19.

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- Wang, C.*, & Huang, X. 2018. *Rapid flood inundation reconstruction by integrating social media and satellite imagery*. Applied Geography Conference, Kent, OH, October 31 – November 2.
- Huang, X.*, Wang, C., & Li, Z. 2018. *Reconstructing flood inundation probability by enhancing near real-time imagery with real-time gauges and tweets*, AAG Annual Meeting, Remote Sensing Specialty Group (RSSG), New Orleans, LA, April 13.
- 2017 Huang, X.*, Wang, C., & Li, Z. 2017. *A near real-time flood mapping approach by integrating social media and post-event satellite imagery*, The 25th International Conference on GeoInformatics, Buffalo, OH, August 3.

MEDIA COVERAGE

- 2022 Article titled “*Black Businesses Matter: A Longitudinal Study of Black-Owned Restaurants in the COVID-19 Pandemic Using Geospatial Big Data*” published on the Annals of the American Association of Geographers has been covered by multiple news outlets. Some selected media outlets are listed below:
- **UW Today:** “*Black-owned restaurants disproportionately impacted during pandemic*”, <https://www.washington.edu/news/2022/08/29/black-owned-restaurants-disproportionately-impacted-during-pandemic/>
- Article titled “*The times, they are a-changin’: tracking shifts in mental health signals from early phase to later phase of the COVID-19 pandemic in Australia*” published on the British Medical Journal Global Health has been covered by multiple news outlets. Some selected media outlets are listed below:
- **UK Today News,** “*Tweets used to track Australian mental health swings during COVID pandemic*”, <https://todayuknews.com/health/tweets-used-to-track-australian-mental-health-swings-during-covid-pandemic/>.
- 2021 Article titled “*Staying at Home Is a Privilege: Evidence from Fine-Grained Mobile Phone Location Data in the United States during the COVID-19 Pandemic*” published on the Annals of American Association of Geographers has been covered by more than 20 news outlets. Some selected media outlets are listed below:
- **Taylor & Francis Breaking research,** “*Data from 45 million mobile users further confirms poorer communities less able to follow ‘stay at home’ COVID rules*”, <https://newsroom.taylorandfrancisgroup.com/data-from-45-million-mobile-users-further-confirms-poorer-communities-less-able-to-follow-stay-at-home-covid-rules/>
 - **METRO,** “*Poor people more likely to be forced to ignore stay-at-home orders than the rich*”, <https://metro.co.uk/2021/06/02/poorer-citizens-broke-lockdown-more-frequently-smartphone-data-shows-14699764>.
 - **Medical News,** “*Low-wage earners could not afford to comply with stay-at-home orders during lockdown*”, <https://www.news-medical.net/news/20210602/Low-wage-earners-could-not-afford-to-comply-with-stay-at-home-orders-during-lockdown.aspx>
 - **Verywell-health,** “*Study: Stay-at-Home COVID Orders Were a Luxury Many Couldn't Afford*”, <https://www.verywellhealth.com/stay-at-home-orders-low-income-covid19-5187273>
 - **Medical press,** “*Data from 45 million mobile users further shows poorer people less able to stay at home COVID rules*”, <https://medicalxpress.com/news/2021-05-million-mobile-users-poorer-people.html>

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- **Big News Network**, “*Poorer people less able to stay at home amid COVID-19*”, <https://www.bignewsnetwork.com/news/269666910/poorer-people-less-able-to-stay-at-home-amid-covid-19>
- 2019 Research highlight by the Spatial Analysis and Modeling Specialty Group (SAM) in American Association of Geographers, “*100-year Flood Exposure in the Conterminous United States Using National Building Footprints*”.
https://docs.wixstatic.com/ugd/4a5b75_9434b078133b45e0b5dba453e075fe40.pdf
- Research highlight by the Hazards, Risks, and Disaster Specialty Group (HRD) in the American Association of Geographers: “*Human settlement in hurricane-prone areas*”.
https://docs.wixstatic.com/ugd/4a5b75_2b88057e41c9489483088b79018751a7.pdf
- Research highlight by the Applied Geography Specialty Group (AGSG) in the American Association of Geographers, “*Human Settlement in Hurricane-Prone Zones is Revealed by Nighttime Remote Sensing*”.
https://docs.wixstatic.com/ugd/4a5b75_2c6511375189498ba6287fc53af0f18c.pdf
- Research highlight by the Cyberinfrastructure Specialty Group (CISG) in American Association of Geographers, “*Visual-textual fused CNN architecture for rapid disaster related social media retrieval*”.
https://docs.wixstatic.com/ugd/4a5b75_cca08cb9c381485eb9fac8bc32f341f0.pdf

INVITED TALKS

- 2022 *Crowdsourcing Geospatial Data in Urban Sciences: Progress and Challenges*, invited by Hong Kong Polytechnic University and Urban Informatics Journal, September 23.
- Artificial Intelligence Application Examples*, NASA STEM Enhancement in Earth Science (SEES) program, June 17 (virtual)
- Urban crowdsourcing data: applications, methodologies, and future directions*, GeoAI seminar, Wuhan University and the China University of Geosciences, May 24 (virtual).
- The impact of COVID-19: perspectives from big human mobility data*, GeoHealth Hub research seminar, Department of Geography, National University of Singapore, May 20 (virtual).
- Human Behavioral Dynamics during the COVID-19 Pandemic via Big Geospatial Data*. 2022 Spring Colloquium Series, Department of Geosciences, University of Arkansas, February 25 (virtual)
- Revealing the disparity in human mobility dynamics during the COVID-19 pandemic via data-driven approaches*. Transportation Data Science Seminar Series by Landscape Architecture & Urban Planning at Texas A&M University, February 3 (virtual).
- 2021 *Home-dwelling time pattern mining based on optimized Random Forest algorithm*. Research seminar invited by Beijing University, Wuhan University (Geocomputation Center for Social Science), and East China University of Science and Technology (Lab for Urban and Regional Analysis), July 15 (virtual).
- The disparity in home-dwelling time during the COVID-19 pandemic in the U.S.* Joint Seminar invited by University of Maryland, Texas A&M University & University of Tennessee Transportation Engineering and Science Student Chapter, June 10 (virtual).

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SafeGraph Social Distancing Metrics for COVID-19 Studies. Invited by the Mobility Research Group of the China Data Lab and the Geo-computation Center for Social Sciences, Wuhan University, May 7 (virtual).

COVID-19 reveals the social inequity issue in the U.S. Research Showcase invited by Placekey, May 21 (virtual).

Sensing Population Distribution from Satellite Imagery via Deep Learning: Model Selection, Neighboring Effects, and Systematic Biases. GIScience Symposium Series No. 5 GeoAI, invited by Peking University, Institute of Geographic Sciences and Natural Resources Research (CAS), and Beijing Normal University, April 16 (virtual).

Disparity in compliance with social distancing policies during the COVID-19 pandemic: evidence from fine-grained mobile phone data. Guest lecture for the Department of Geography, University of Utah, April 21 (virtual).

2020 *Big mobility data reveal the luxury nature of social distancing and stay-at-home orders in the U.S. during the COVID-19 pandemic*. Research Seminar invited by Geoinsider, December 17 (virtual).

Twitter and Disasters. Guest speaker, invited by Texas A&M University Chinese School, November 14 (virtual).

Does social inequity stand in the way of the effective implementation of stay-at-home orders?. Seminar presenter invited by SafeGraph, November 12 (virtual).

Big Geospatial Data in Assisting Disaster Assessment. Research Colloquium, University of Arkansas, AR, February 14.

2019 *Sensing and Improving Rapid Flood Mapping through Social Media Data Mining*. Fall research seminar series in School of City & Regional Planning, Georgia Institute of Technology, Atlanta, GA, September 27.

TEACHING EXPERIENCE

University of Arkansas

2022 *Introduction to Geodatabases (GEOS 3593/5593)*
Course evaluation (out of 5): 2022 Spring: N/A

Seminars in GIS (GEOS 5973)
Course evaluation (out of 5): 2022 Spring: N/A

2021 *Geospatial Technologies Computational Toolkit (GEOS 3103)*
Course evaluation (out of 5): 2021 Spring: N/A; 2021 Fall: N/A

University of South Carolina

2017-2018 *Geographic Information Systems (GEOG 363)*
Course evaluation (out of 5): 2018 Fall: 4.96

The Digital Earth (GEOG 105)
Course evaluation (out of 5): 2019 Fall: N/A; 2018 Summer: 5.0; 2018 Spring: 4.78; 2017 Fall: 4.73

CURRICULUM VITAE

SERVICE

Served on Professional Committees

- 2022 Organizer, The International Society for Photogrammetry and Remote Sensing (ISPRS) geo-computation and geo-simulation working group.
- Program Committee Member, the 5th ACM SIGSPATIAL International Workshop on AI for Geographic Knowledge Discovery (GeoAI 2022), Seattle, Washington, November 1-4, 2022.
- Board of Directors, the International Association of Chinese Professionals in Geographic Information Sciences.
- Judge, student paper competition in the 29th International Conference on Geoinformatics
- 2021 Program Committee Member, the 4th ACM SIGSPATIAL International Workshop on AI for Geographic Knowledge Discovery (GeoAI 2021), Beijing, China, November 5, 2021.
- Award committee member, student paper competition, The 28th International Conference on Geoinformatic, Nanchang, Jiangxi Province, China, November 3-5.
- Program Committee Member, the 4th ACM SIGSPATIAL International Workshop on Advances on Resilient and Intelligent Cities (ARIC 2021), Beijing, China, November 5, 2021.
- 2020 Program Committee Member, the 3rd ACM SIGSPATIAL International Workshop on Advances in Resilient and Intelligent Cities (ARIC 2020), Seattle, Washington, November 3, 2020

Organized Conference Sessions and Symposiums

- 2022 Co-chair, *GeoAI for Urban-Rural Sensing*. The 29th International Conference on Geoinformatics, China University of Geosciences, Beijing, China, Augusts 15-18.
- Chair, Symposium on *Human Dynamics Research: Urban computational paradigms with shareable data, models, tools, and frameworks*, 2022 Annual Meeting of American Association of Geographers, New York City, NY, February 25-March 1.
- Co-chair, *Harnessing mobility data for spatial knowledge discovery: recent advances and challenges*, 2022 Annual Meeting of American Association of Geographers, New York City, NY, February 25-March 1.
- Organizer, Symposium on *Human Dynamics Research: Advances in geo-big data in urban informatics*, 2022 Annual Meeting of American Association of Geographers, New York City, NY, February 25-March 1.
- Organizer, Symposium on *Human Dynamics Research: Human mobility in the Big Data era I*, 2022 Annual Meeting of American Association of Geographers, New York City, NY, February 25-March 1.
- Organizer, Symposium on *Human Dynamics Research: Human mobility in the Big Data era II*, 2022 Annual Meeting of American Association of Geographers, New York City, NY, February 25-March 1.
- Organizer, *GeoAI: Intelligent Geospatial Analytics*, 2022 Annual Meeting of American Association of Geographers, New York City, NY, February 25-March 1.
- Organizer, Symposium on *Data-Intensive Geospatial Understanding in the Era of AI and CyberGIS*, 2022 Annual Meeting of American Association of Geographers, New York City, NY, February 25-March 1.

CURRICULUM VITAE

- 2021 Co-Chair, Spatial and Temporal Thinking in Data-Driven Method: *Examining social connection and segregation leveraging emerging mobility data*. Spatial Data Science Symposium, December 13-14, 2021 (virtual)
- Organizer, Symposium on *Human Dynamics Research: Emerging Urban-Geo Big Data in Transportation Research*, 2021 Annual Meeting of American Association of Geographers, Seattle, WA, April 7-11.
- 2019 Chair, Special Session: *Remote Sensing and Social Sensing for Improved Disaster Monitoring*. The 74th Annual Meeting of the Southeastern Division of the American Association of Geographers, Wilmington, NC, November 24-25

Editorial Services

- Frontiers Remote Sensing* (Review Editor) (2020-present)
- Big Earth Data* (Topic Editor) (2020-present)
- Computational Urban Science* (Associate Editor) (2020-present)
- International Journal of Digital Earth* (Editorial Board Member) (2022-present)
- Journal of Remote Sensing* (Editorial Board Member) (2022-2024)
- PLOS ONE* (Guest Editor) (2022-present)
- Nature Scientific Reports* (Editorial Board Member) (2022-present)

Reviewer Board

- Sustainability (2020-present)

Organized Journal Special Issues

- 2022 *Remote Sensing*: Forest remote sensing
- Big Earth Data*: Big Earth Data for Disaster Risk Reduction
- International Journal of Applied Earth Observation and Geoinformation*: Crowdsourcing Geospatial Data in Urban Sciences
- Land*: Innovative Research Approaches & Practices towards Sustainable Land Management, Preservation & Restoration
- Remote Sensing*: Research on the Structure and Function of Forest and Grassland Based on Multi-Source Remote Sensing Data
- 2021 *Computational Urban Science*: Promoting Urban Computational Paradigms with Shareable Data, Models Tools, and Frameworks.
- International Journal of Environmental Research and Public Health*: Spatial Analytics for COVID-19 Studies.
- Frontiers in Future Transportation*: Emerging Urban-Geo Big Data in Transportation Research.

CURRICULUM VITAE

Departmental and School Services

- 2021 Chair, Recruiting and Retention Committee, Department of Geosciences, University of Arkansas
- 2021 Search Committee, Department of Geosciences, University of Arkansas
Graduate Committee, Department of Geosciences, University of Arkansas
Award Committee, Department of Geosciences, University of Arkansas
Recruiting and Retention Committee, Department of Geosciences, University of Arkansas
- 2019 Discover USC Reviewer, Office of the Vice President for Research, University of South Carolina.
- 2018 Thinking Globally Ambassador, International Student Service, University of South Carolina.
Organizing committee, Geography Professional Development Workshop, University of South Carolina.
- 2017 Organizing committee, 2017 GIS day, University of South Carolina.

Advised Students

- Jingjing Yan, Ph.D., University of Arkansas (committee chair) (2022-now)
- Reza Naghedi, Ph.D., University of Arkansas (committee chair) (2022-now)
- Michaelmary Chukwu, M.S., University of Arkansas (committee chair) (2022-now)
- Jah Johnson, M.S., University of Arkansas (committee member) (2021-now)
- Jack Fekete, Ph.D., University of Arkansas (committee member) (2021-now)
- Victoria Karnes, M.S., University of Arkansas (committee member) (2020-2022)
- Cassandra Howe, Ph.D., University of Arkansas (committee member) (2022-now)
- Ayanna Rose, Ph.D., University of Arkansas (committee member) (2021-now)
- Madison Worthy, M.S., University of Wyoming (committee member) (2021 -now)
- Sierra Guzman, M.S., University of Wyoming (committee member) (2021-now)
- Yunhe Cui, Ph.D., University of Connecticut (committee member) (2021-now)
- Nelofar Qulizada, M.S., University of Arkansas (committee member) (2022-now)

Journal Reviews (Year [Times])

- Annals of American Association of Geographers (2020[3])
Annals of GIS (2020 [4], 2021[2])
Applied Geography (2020 [4])
Applied Sciences (2020[2])
Big Earth Data (2020[2],2021[1])
BMC Medical Research Methodology (2022[1])
Cities (2021[2])
Computational Urban Science (2021[11], 2022[8])
Computers, Environment and Urban Systems (2022[2])
Environmental Pollution (2021[3])
Environment and Planning B: Urban Analytics and City Science (2021[1], 2022[1])
Environment & Behavior (2022[2])

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Geo-spatial Information Science (2020[1], 2021[3], 2022[2])
GeoInformatica (2021[1],2022[1])
Future Generation Computer Systems (2021[1])
Health & Place (2021[2], 2022[1])
Health Policy (2021[1])
Health Data Science (2021[2])
IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (2020 [2])
IEEE Transactions on Geoscience and Remote Sensing (2020 [3], 2022[1])
IEEE Transactions on Intelligent Transportation Systems (2022[1])
International Planning Studies (2022[1])
Information Processing and Management (2021[1])
International Journal of Applied Observation and Geoinformation (2021[1], 2022[2])
International Journal of Digital Earth (2018[4], 2020[2], 2021[9], 2022[3])
International Journal of Geographical Information Science (2021[4], 2022[1])
International Journal of Disaster Risk Science (2022[1])
ISPRS International Journal of Geo-Information (2021[1], 2022[3])
Journal of ambient intelligence and humanized computing (2020 [3])
Journal of Flood Risk Management (2021 [1])
Journal of ICT Research and Applications (2021[1])
Journal of Transport Geography (2022[1])
Mathematical Biosciences and Engineering (2021[1])
Medical Research Archives (2022[1])
Nature Communications (2022[1])
Papers in Applied Geography (2019[3])
Photogrammetric Engineering and Remote Sensing (2020[1], 2021[7], 2022[2])
PLOS ONE (2020 [4], 2021[11], 2022[2])
Remote Sensing Applications: Society and Environment (2021[1], 2022[1])
Remote Sensing (2021[3], 2022[1], 2022[1])
Scientific Reports (2021[3], 2022[3])
Security and Defence Quarterly (2022[1])
Soft Computing (2021[1])
Spatial and Spatio-temporal Epidemiology (2021[1])
Sustainability (2021[1])
Transactions in GIS (2020[2], 2021[1])
The Egyptian Journal of Remote Sensing and Space Sciences (2022[1])
Travel Behaviour & Society (2021[3])
Water (2021[2])

Conference Proceeding Reviews (Year [Times])

The 29th International Conference on Geoinformatics (2022[13])
GeoAI'21 (The 4th International Workshop on AI for Geographic Knowledge Discovery) (2021[3])
AAAI Conference on Artificial Intelligence (2021[8])

Book Chapter Reviews (Year [Times])

Geospatial stories of the global COVID-19 pandemic (2022[1])

Scholarly/Professional Organizations

Institute of Electrical and Electronics Engineers (IEEE) member (2018-present).
American Association of Geographers (AAG) member (2017-present).
Southeastern Division of the American Association of Geographers (SEDAAG) member (2017-2019).

CURRICULUM VITAE

International Association of Chinese Professional in Geographic Information Sciences (CPGIS)
member (2017-present).

American Geographic Society (AGS) member (2017-2018).

Xiao Huang