



Zhang Yan

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EDUCATION

National University of Singapore - Geographic Information System Doctor Urban Analytics Lab	2022.01 - 2022.12
<ul style="list-style-type: none">• Visiting PhD Students	
Wuhan University - Geographic Information System Doctor The State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing	2020.09 - 2023.06
<ul style="list-style-type: none">• NLP&CV in geo-tagged text&image, webgis and geospatial knowledge mining	
Wuhan University - Geographic Information System Master	2018.08 - 2021.06
<ul style="list-style-type: none">• Social media data analysis; spatial temporal data analysis	
Wuhan University - Geographic Information System Bachelor	2014.08 - 2018.06
<ul style="list-style-type: none">• Honors/Awards: Three-Year Outstanding Student Scholarship (2014-2017)	

Research Paper

KE-CNN: A new social sensing method for extracting geographical attributes from text semantic features and its application in Wuhan, China[J]. Computers, Environment and Urban Systems - Corresponding/Second Author	2020.10
<ul style="list-style-type: none">• Geographical Knowledge Complement and Semantic Alignment, NLP application• Word Embedding, TextCNN	
Multi-source Sensor based Urban Habitat and Resident Health Sensing: A Case Study of Wuhan, China[J]. Building and Environment - First Author - First Author	2021.06
<ul style="list-style-type: none">• Multi-modal urban cognition with coupled streetscape, social sensing, remote sensing and other multi-source sensors• Semantic Segmentation For Street View	
Translating built environment to socioeconomic environment—an urban sensing enhancement model [J] under peer review - First Author	2021.10
<ul style="list-style-type: none">• Multi-modal Machine Translation• Seq2Seq with Attention• From Street View to Point of interest	
Extracting the location of flooding events in urban systems and analyzing the semantic risk using social sensing data[J]. Journal of Hydrology - First Author	2021.12
<ul style="list-style-type: none">• Social Sensing and NLP to Identify Urban Flooding in Social Media• Bert for Named Entity Recognition	
Knowledge-Topology Two-Layer Spatially Dependent Graph Neural Networks to Identify Road Functions[J] under peer review - First Author	2022.04
<ul style="list-style-type: none">• Spatial Knowledge Graph• Graph Neural Network	

Awards

- China National Scholarship (2021, Top 0.2%, bonus 30,000 yuan)
- China Scholarship Council Funding (2021, bonus 150,000 yuan)
- Outstanding Graduate Student of Wuhan University (2022, bonus 6,000 yuan)
- 2021 Wuhan City Circle Open Source Data Application Competition Third Prize (First Author, 9/204, WebGIS System, bonus 5,000 yuan)

Experience

Fuzhou Urban Water System Scientific Scheduling System - WebGIS	2019.06 - 2019.10
<ul style="list-style-type: none">• Smart City• Develop GIS Spatial Analysis Web API	
WeChat Public Platform Operation (sensingcity)	
<ul style="list-style-type: none">• Sharing Spatial Knowledge and News	

Others

- **Certifications:** NCRE-3 (networks) , CET-4 , CET-6
- **S-T Data analysis:** Data Visualization, Pandas, Huggingface Transformers, Python, R, LaTeX
- **Coding development:** GIT, WebGIS, Django, Technology Blog: blog.csdn.net/qq_34069180