

# Yuchen WANG

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## EDUCATION

**Huazhong University of Science and Technology**

**Wuhan, China**

**M.Eng.** in *Urban and Rural Planning*

*Sept. 2020 – Jun. 2023*

- **GPA:** 87.47/100 | **Tutor:** Helin Liu | **Course Highlights:** Planning Research method based on spatial data(92/100) on statistical data(91/100); Territorial spatial planning policy analysis(98/100); Graduate professional experiment(91/100)

**B.Eng.** in *Urban and Rural Planning*

*Sept. 2015 – Jun. 2020*

- **GPA:** 85.22/100 | **Tutor:** Helin Liu | **Course Highlights:** Urban design(90/100); Urban regulatory detailed design(91/100); Urban public space design(92/100); Social survey practice(93/100); 3S(GPS, RS, GIS)technology and application(91/100)

## PUBLICATION

### Journal Article

- **Wang Y C**, Liu H L, Nie, J X, et al. Evolution characteristics of spatial distribution and Locating Factors of Low-carbon Industry in Wuhan[J]. **Ecological Economy**, 2024. (*Under view, in Chinese*)
- Liu H L, Tang Y W, Huang Y L, **Wang Y C\***, et al. Optimization Path of Municipal Territorial Space Use Regulation System for Functional Governance: Taking Ezhou City as an Example[J]. **Planners**, 2024, 40(6):8-15. (*accepted, in Chinese*)
- Liu H L, Zhang M W, **Wang Y C\***, et al. Types of shrinking villages and flexible planning strategies in the Jiangnan Plain region: Based on an investigation of 606 villages in Xiantao City[J]. **Resources Science**, 2024, 46(2): 407-420. DOI: 10.18402/resci.2024.02.12. (*in Chinese*)
- **Wang Y C**, Liu H L, Huang Y P, et al. Reform Path of Territorial Space Planning Compilation, Inspection, and Approval at City Level: A Case Study of Ezhou City[J]. **Planners**, 2023,39(5):83-89. DOI:10.3969/j.issn.1006-0022.2023.05.012.
- **Wang Y C**, Liu H L, Liu F T, et al. The Reform Path of Planning Permission System under the Background of Land Use Examination and Approval Decentralization[J]. **Planners**, 2021, 37(15):13-18. DOI:10.3969/j.issn.1006-0022.2021.15.002.

### Conference Paper

- Li Y S, **Wang Y C**. Quality evaluation and countermeasures of new urbanization in late-developing mountainous towns in central China: A case study of Zigui County, Yichang[C].//2022 Annual Conference on Urban Planning in China. 2023:8. DOI:10.26914/c.cnkihy.2023.049570.(*in Chinese*)
- **Wang Y C**. Conservation and renewal strategy of historic district based on the concept of iterative symbiosis: A case study of Eryao Road area in Hankou German Concession[C].//2022 Annual Conference on Urban Planning in China. 2023:8. DOI:10.26914/c.cnkihy.2023.046716.(*Poster, in Chinese*)
- **Wang Y C**, Liu H L. Spatial pattern, spatial correlation and guidance strategy of low-carbon industry in Wuhan metropolitan area[C].//2021 Annual Conference on Urban Planning in China.2021:1-9. DOI:10.26914/c.cnkihy.2021.028096.
- **Wang Y C**, Liu H L. Spatial distribution characteristics and location influencing factors of electric vehicle charging stations in Wuhan[C].//2021 Annual Conference on Urban Planning in China.2021:1-8.DOI:10.26914/c.cnkihy.2021.037362.
- **Wang Y C**, Liu Z J, ... Spatial supply-demand matching of electric vehicle charging stations in Wuhan based on multi-source data[C].//2020 Annual Conference on Urban Planning in China.2021: 1-10. DOI:10.26914/c.cnkihy.2021. 036825.

## RESEARCH EXPERIENCE

### Project 1: Characteristics identification, influencing factors of rural shrinkage in Xiantao city

*Independent Research | Outstanding Master Degree Thesis(GPA:90/100)*

*Sept. 2022 – Jan. 2024*

(**Wang Y C**. *Characteristics Identification, Influencing Factors of Rural Shrinkage in Xiantao City and Its Planning Response Strategies[D]*. Huazhong University of Science and Technology,2023. DOI:10.27157/d.cnki.ghzku.2023.002787.)

- Employed field surveys to establish a village database comprising 606 villages. Identified shrinking villages from both the population and spatial perspectives and recognized typical areas with similar shrinkage features.
- Constructed a combined quantitative and qualitative analytical framework, and categorized causal types of shrinkage in these typical areas. Explored the planning strategies for different villages by referring to their types.

### Project 2: Territorial space planning compilation, approval system, and implementation mechanism in Ezhou city

*Team leader & Initiator | 2021 National Excellent Urban Planning Award\_Provincial 3rd award*

*Sept. 2021 – Jun. 2023*

- Reviewed the evolution of the planning permission system since the founding of the PRC; Concluded the staged difficulties of China's planning permission system; Proposed the reform path of it under the land use approval decentralization.

- Analyzed the predicament from the compilation system, inspection and approval system, and authoritative powers of offices. Summarized the practical experience and proposed the reform path of Ezhou's territorial spatial planning approval system.

### **Project 3: Spatial pattern, spatial correlation, and guidance strategy of low-carbon industry in Wuhan**

#### **Independent Research**

*Jan. 2020 – Jun. 2022*

- Obtained the enterprise data of the Wuhan low-carbon industry in 2002, 2010, and 2018 by defining the industrial categories of the low-carbon industry. Cleaned the data of low-carbon enterprises and established a low-carbon industrial database.
- Used kernel density estimation and negative binomial regression model to explore the evolution characteristics, spatial distribution and location influence factors of low-carbon industry.

### **Project 4: Thematic research on target positioning and strategic development in Xiantao city**

#### **Team leader**

*Jan. 2020 – Jun. 2022*

- Coordinated the task allocation among the project team members. Analyzed and identified the development background of Xiantao; Analyzed the problems in population and economic and industrial development.
- Established regional linkage strategy and proposed the strategic path of ecological space, agricultural space, urban space, and urban-rural integration to provide a strategic decision-making basis for the development of territorial space.

### **Project 5: Evaluation, prediction, and optimization of the spatial distribution of EV charging stations in Wuhan**

#### **Team leader | National undergraduate student innovation and entrepreneurship training program**

*Mar. 2019 – Mar. 2020*

- Crawled the location data of EV charging stations in Wuhan by Python, from the Baidu map. Established an innovative quantitative measurement index system for the supply and demand of EV charging stations. Constructed a spatial distribution supply and demand matching evaluation model, and evaluated by the location quotient(LQ) method.
- Predicted and drew the distribution scheme of EV charging stations under different scenarios, by GM(1,1) grey prediction model and scenario planning method. Combined with genetic algorithm(GA) and GIS to optimize the distribution.

## **WORKING EXPERIENCE**

### **MCC Southern Engineering Technology Co., Ltd.**

**Wuhan, China**

#### *Urban and rural planner*

*Jul. 2023 – present*

- Urban renewal planning: applied big data technology to the spatial status analysis, and economic and industrial analysis.
- Project financial calculation: calculated the quantitative investment and financing indicators of the development projects.

### **Guangzhou Urban Planning Survey and Design Institute Co., Ltd.**

**Guangzhou, China**

#### *Assistant urban and rural planner | Supervised by Donghua He in 1st planning office*

*Aug. 2022 – Sep. 2022*

- Project Planning: finished high-quality development and promotion planning project of Huangpu District, Guangzhou.
- Population and Economic Research: population and economic status quo analysis, data crawling, and collection.

### **Beijing Tsinghua Tongheng Planning and Design Institute Co., Ltd.**

**Beijing, China**

#### *Assistant urban and rural planner*

*Aug. 2021 – Sep. 2021*

- Project Planning: finished territorial spatial planning project of Yichun City, Heilongjiang Province.
- Data Sorting: cleaning and sorting of GIS database; Drew CAD files of road network and planning drawings.

### **Shenzhen QuantUrban Technology Co., Ltd.**

**Shenzhen, China**

#### *Assistant urban planning research and data analyst | Supervised by Xiaohui Yuan , Lei Dong*

*Jul. 2020 – Sep. 2020*

- Economic and Industrial Research: big data support in Field investigation, status assessment, and data collection.
- Data Cleaning: database establishment on CRIC real estate information platform.

## **HONORS & AWARDS**

Outstanding Graduate_ <b>Top 10%</b>	<i>Jun. 2023</i>	First-class Scholarship for postgraduates_ <b>Top 10%</b>	<i>Nov. 2021</i>
Merit Postgraduate_ <b>Top 10%</b>	<i>Nov. 2021</i>	Outstanding Undergraduate_ <b>Top 10%</b>	<i>Jun. 2020</i>
Wuhan Creative Design Contest on Urban Renewal Planning and Design		<b>Top 1%</b> _Silver award	<i>Dec. 2021</i>
WUPENiCity International Competition on Urban Design		Nomination award	<i>Nov. 2020</i>
Wuhan Creative Design Contest on Community Public Space Design		<b>Top 1%</b> _Silver award	<i>Dec. 2019</i>
Chinese College Student Computer Design Competition		<b>Top 5%</b> _Second award	<i>Jul. 2019</i>
National Urban and Rural Social Practice Survey Competition		Excellent work award	<i>Jul. 2018</i>

## **SKILLS, ACTIVITIES, & INTERESTS**

- Programming: Python, R,(National Computer Rank Level 2-Python, Level 3-Network Technology), Matlab, Netlogo
- Software: ArcGIS, QGIS, SPSS, Stata, Photoshop, Illustrator, SketchUp, AutoCAD, Office(Word, Excel, PPT, Visio)
- Interests: Outdoor cycling and hiking, Traveling, Table tennis, Live music