

# Yiqi WANG

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## EDUCATION

### Tongji University, Shanghai, China

Sept. 2021-Jun. 2025 (Expected)

M.Sc. in Landscape Architecture | GPA: 87.65/100

- Relevant Coursework: *Principles and Methods of Landscape Ecological Planning; Studies of Human Inhabitation Settlement Environment; The Methodology of Landscape Planning Design*, etc.

### Tongji University, Shanghai, China

Sept. 2017-Jun. 2021

B.E. in Landscape Architecture | GPA: 90.20/100

- Relevant Coursework: *Landscape Ecology; An Introduction to Remote Sensing and GIS; Ecological and Planning Design; Principle of Urban Green Space Planning and Design*, etc.

### Ruhr University, Bochum, Germany

Jan. 2024-May. 2024

4-month Visiting Study granted by **CSC** (China Scholarship Council)

- Project Title:** Application of the IMECOGIP Toolbox on Case Studies in Germany and Shanghai
- Advisor:** Prof. Dr. Harald ZEPP, Faculty of Geosciences, Institute of Geography, Ruhr University Bochum
- Collaborated with the IMECOGIP team; improved the integrated ecosystem services assessment methods; and promoted the application of the toolbox in Ruhr and Shanghai.

## RESEARCH INTEREST

*Landscape Ecology, Ecosystem Services, Remote Sensing, Machine Learning Method, Stream Water Quality*

## PUBLICATIONS

- Wang, Y.**, Yu, J., Wei, W., & Dong, N. (2024). A Multi Source Data-Based Method for Assessing Carbon Sequestration of Urban Parks from a Spatial-temporal perspective: a Case Study of Shanghai Century Park. *Land*, 13(11), Article 11. <https://doi.org/10.3390/land13111914>
- Wei, W., **Wang, Y.**, Liu, G., & Dong, N. (2024). Assessing the Buffer Gradient Discrepancy: Comparing Objective and Subjective Evaluations of Urban Park Ecosystem Services in Century Park, Shanghai. *Land*, 13(11), Article 11. <https://doi.org/10.3390/land13111848>
- Dong, N., **Wang, Y.**, Zepp, H., Grünhagen, L., Bührs, M., Busch, C., & Wei, W. (2024). Model to Application: A Study on a Decision Support Tool for Rural Ecological Restoration Planning Based on Ecosystem Services Trade-offs. *Landscape Architecture Academic Journal*, 41(03), 4-12+60. <https://doi.org/10.12193/j.laing.2024.03.0004.001>
- Tan, K., Dong, N., & **Wang, Y.** (2024). Review and Prospect of Research on Low Carbon Rural Planning and Construction in China. *Landscape Architecture Academic Journal*, 41(11), 60-65. <https://doi.org/10.12193/j.laing.2024.11.0060.008>
- Dong, N., Liu, Z., **Wang, Y.**, & Yang, B. (2023). Research on the Construction and Application of Digital Governance Assessment Index System for Urban Park. *Landscape Architecture Academic Journal*, 40(07), 4-13. <https://doi.org/10.12193/j.laing.2023.07.0004.001>
- Dong, N., & **Wang, Y.** (2022). *Xuhui Runway Park Methods* (Landscape Performance Series). Landscape Architecture Foundation. <https://doi.org/10.31353/cs1821>

## RESEARCH EXPERIENCE

### Temporal and Spatial Variation Study on Carbon Sequestration in Large Urban Parks Based on Biotope Mapping: Taking Century Park, Shanghai as An Example

Postgraduate Dissertation

Oct. 2022-Mar. 2024

- **Advisor:** Prof. Dr. Nannan DONG, College of Architecture and Urban Planning, Tongji University
- Established a reliable and applicable framework to assess the carbon sequestration (CS) capacity of large urban parks from a spatial-temporal perspective.
- Performed biotope classifications based on remote sensing imagery using the random forest algorithm on Google Earth Engine platform; analyzed the temporal and spatial transitions of each biotope.
- Estimated the CS capacity of Century Park based on biotope mapping from 2018 to 2023; explored the spatial-temporal variation characteristics of CS capacity and the potential driving factors; and developed low-carbon park design strategies based on these findings.

### **Implementation of the Ecosystem Services Concept in Green Infrastructure Planning to Strengthen the Resilience of the Metropole Ruhr and Chinese Megacities (IMECOGIP)**

*Sustainable Development of Urban Regions Research Project (funded by BMBF)*

**Mar. 2022-Oct. 2024**

- **Research Assistant**
- Collected land use/ land cover data from urban and rural areas in Shanghai through on-site investigations and remote sensing imagery; contributed to the development of the methodology for the toolbox; and tested, modified, and optimized its application in the context of Shanghai.
- Assisted in organizing hands-on IMECOGIP toolbox workshops in Shanghai, Bochum and Qingdao.

### **Xuhui Runway Park Landscape Performance Evaluation**

**Feb. 2022-Oct. 2022**

*2022 Case Study Investigation Program (organized and funded by LAF)*

- **Project Leader**
- Developed a feasible research plan to quantify 13 environmental, social, and economic benefits of the park.
- Conducted both on-site and online investigations to gather field data; applied quantitative methods to evaluate each benefit metric; and produced an assessment report for LAF.
- Presented the project process and outcomes at the 2022 CSI Finale Webinar.

### **Comprehensive Study on the Summer Temperature Regulation Performance and Influencing Factors of Rooftop Greening in the Photovoltaic and Greening Combination Mode**

*National Natural Science Foundation Project | Group Research*

**Feb. 2023-Present**

- **Project Assistant**
- Assisted in reviewing literature on rooftop photovoltaic systems and designing the experimental procedures.
- Conducted on-site experiments in Shanghai; produced schematic diagrams of the experimental test unit.

### **Study on Mood-Modulating Effects of Aromatic Plants and Exploration of the Design of the Aromatic Botanical Garden on University Campus**

*National Undergraduate Innovation Training Program | Group Research*

**Apr. 2019-Apr. 2021**

- **Program Leader**
- Designed the experimental protocol; conducted experiments among 30 volunteers on the beneficial impacts of different aromatic plants on mood, depression and anxiety; and analyzed the experimental results.
- Explored principles and methods of designing an aromatic botanical garden on Tongji University campus.

## **HONORS & AWARDS**

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|--|------------------|
| 1) Participant in the <i>Busan International Architectural Design Workshop</i> , Korea | <b>Jul. 2019</b> |
| 2) Participant in a one-week volunteer teaching program, Siem Reap, Cambodia           | <b>Jan. 2019</b> |
| 3) <i>The Third Prize of Tongji Scholarship of Excellent</i> ( <b>3 times</b> )        | <b>2017-2020</b> |

## **SKILLS**

### **Languages:**

- **Mandarin:** Native speaker; **English:** IELTS (Overall Band: 7.0); **German:** Level A1

### **Techniques:**

- ArcGIS/ QGIS; Google Earth Engine; ENVI; Adobe Photoshop/ Illustration/ InDesign