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

1) **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

2) 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

3) Dong, N., **Wang, Y.**, Zepp, H., Grünhagen, L., Bührs, M., Busch, C., & Wei, W. (2024). Model to A pplication: A Study on a Decision Support Tool for Rural Ecological Restoration Planning Based on Ecos ystem Services Trade-offs. *Landscape Architecture Academic Journal*, 41(03), 4-12+60. https://doi.org/10.12193/j.laing.2024.03.0004.001

4) Tan, K., Dong, N, & **Wang, Y.** (2024). Review and Prospect of Research on Low Carbon Rural Plan ning and Construction in China. *Landscape Architecture Academic Journal, 41*(11), 60-65. https://doi.org/10.12193/j.laing.2024.11.0060.008

5) 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

6) 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

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

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