**Jianxing Guan**

School for Environment and Sustainability, University of Michigan

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**EDUCATIONAL BACKGROUND**

**University of Michigan 09/2022-2027(Expected)**

Ann Arbor, Michigan, USA PhD Student in Environment and Sustainability

**University of Michigan 09/2019-05/2022**

Ann Arbor, Michigan, USA Master’s Degree in Landscape Architecture

**Peking University**  **09/2014-06/2019**

Beijing, China Bachelor’s Degree in Urban and Rural Planning

**PUBLICATIONS**

**Peer-reviewed Journal Articles**

**Guan, J.**, Wang, R., Van Berkel, D., & Liang, Z. (2023). How spatial patterns affect urban green space equity at different equity levels: A Bayesian quantile regression approach. *Landscape and Urban Planning*, 233, 104709.

Fu, H., **Guan, J.**, Zhong, Q., Fu, L., Jian, Y., & Li, J. (2024). Landscape Elements, ecosystem services and users’ Happiness: An indicator framework for park management based on cognitive appraisal theory. Ecological Indicators, 165, 112209.

**Selected Conference Presentations and Published Abstracts**

**Guan, J.**, Wu, Q., Wang, R., & Song, Y. (2023). Examining the Influence of Lake Water Quality on Visitor Sentiment: Empirical Findings from 85 U.S. Lakes. *Association of Collegiate Schools of Planning (ACSP) Conference*, Chicago, IL.

Lin, T., Wang, R., Charles, S., Burton, A., Li, J., Liu, Y., & **Guan, J.** (2023). Investigating the differences between subjective environmental perception and objective environmental quality of riparian zone: a study in the Huron River, Michigan. *Association of Collegiate Schools of Planning (ACSP) Conference*, Chicago, IL.

**Guan, J.**, Wu, Q., Wang, R., & Song, Y. (2023). The influence of water quality on lake recreational service—evidence from 182 U.S lakes. *International Association for China Planning (IACP) Conference*, Tianjin, China.

Liu,Y., Liang, Zh., **Guan, J.**, Wang, R., & Zhao, G. (2023). Vulnerability assessment of underrepresented population to lake microcystins contamination in Northeastern U.S.—A Machine Learning Approach. *International Association for China Planning (IACP) Conference*, Tianjin, China.

**Guan, J.**, Wang, R., van Berkel, D. B., & Liang, Z. (2021). Assessing how spatial patterns of urban green space affect its equity in Southeast Michigan. *Council of Educators in Landscape Architecture (CELA) conference*, Santa Ana Pueblo, NM.

**RESEARCH EXPERIENCE**

**University of Michigan, School for Environment and Sustainability Ann Arbor, MI**

Dow Distinguished Award Project, Advisor: Dr. Runzi Wang 01/2023-12/2023

* Assessed the impact of social and economic factors on the hydrological performance of green infrastructures in Detroit.
* Conducted a stated preference survey in Detroit to study how different policies and incentives affect people’s willingness to install residential rain gardens.

Graduate Student Research Assistant, Advisor: Dr. Runzi Wang 05/2023-09/2023

* Designed different LULC (Land Use and Land Cover) scenarios of riparian areas to predict the HABs (Harmful Algae Blooms) on the Maumee River.

Practicum project, Advisor: Dr. Runzi Wang 09/2022-12/2023

* Assessed the influence of lake water quality on lake CESs (Cultural Ecosystem Services) and visitor sentiments with big data analytics at a national scale in the US.

Graduate Student Research Assistant, Advisor: Dr. Runzi Wang 05/2022-09/2022

* Examined the effect of stream characteristics, riparian characteristics, climate, and socioeconomic status on park visitation and water use behaviors in Huron River Watershed.
* Developed risk assessment estimates of exposure to E. coli according to surface water quality and water use behaviors in the Huron River Watershed.

Master’s thesis, Advisor: Dr. Runzi Wang 03/2021-09/2022

* Investigated how spatial patterns affect urban green space equality at different equality levels with a Bayesian quantile regression approach.

**TEACHING EXPERIENCE**

**University of Michigan, School for Environment and Sustainability Ann Arbor, MI**

**Graduate Student Instructor**

EAS 687 Modeling for Landscape Planning Winter 2022, 2023, 2024

A graduate-level studio concentrating on the theories and methods of modeling the ecological, climatic, hydrological, and social systems of landscape.

EAS 578 Urban Stormwater: Science, Design, and Management Fall 2022

An interdisciplinary course on urban stormwater sources and environmental impacts and how to address this issue through design and management.

EAS 787 Metro Dynamic Studio Fall 2023

A graduate-level studio focusing on broad issues of a developing metropolitan region, shifting across scales, across ecological and anthropomorphic systems, and among cultural and ecological variables.

**PLANNING AND DESIGN EXPERIENCE**

**University of Michigan, School for Environment and Sustainability Ann Arbor, MI**

Pollinator garden typology studies and design in Cleveland, Advisor: Prof. Joan Nassauer 05/2020-09/2020

* Designed diverse pollinator gardens in residential front yards for low-income neighborhoods in Cleveland.
* Participated in community engagement design process, developed negotiation skills with different communities and local gardeners, and gained experience in bottom-up design methodology.

**Peking University, College of Urban and Environmental Science Beijing, China**

Ecological Design and Planning of Wusheng County, Advisor: Dr. Zhifang Wang 09/2018-01/2019

* Conducted land use assessment of Wusheng County based on security patterns via GIS.
* Designed a resilient pond system integrated with Sponge City theory to solve flooding and erosion issues and enhance local ecosystem service functions in Wusheng County.

**Beijing Qinghua Tongheng Planning and Design Institute (THUPDI)** **Beijing, China**

Chongli City Mater Planning Project 01/2017-02/2017

* Participated in the master planning and zoning of Chongli City and mainly contributed to the on-site investigation, data collection, and preliminary analysis.
* Applied urban planning and development theories to practice, specifically mixed land use and development methods such as BRT.

**FELLOWSHIP, AWARDS AND HONORS**

$30,000 Dow Distinguished Award 2023

Kenneth J. & Shirley Polakowski Landscape Architecture Award 05/19/2020

$22,500 Academic Merit Fellowship 2019-2020

Social Work Award 2017-2018

Outstanding Student Scholarship 2015-2016

**PROFESSIONAL PRACTICE EXPERIENCE**

**The Rain Garden Ripple Effect** - *Workshop*  **Summer 2023**

**China Fanhua Construction Group** - *Intern* **Summer 2018**

**Tsinghua Tongheng Planning Institute General Planning Center** - *Intern* **Winter 2017**

**Peking University-Jason Ho Mapping Workshop** – *Workshop*  **Summer 2017, 2018**

**PROFESSIONAL ASSOCIATION MEMBERSHIP**

American Society of Landscape Architects (ASLA)

Council of Educators in Landscape Architecture (CELA)

American Geophysical Union (AGU)

Association of Collegiate Schools of Planning (ACSP)

International Association for China Planning (IACP)