

# Yichun Zhou

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## EDUCATION

<b>New York University</b> , Tandon School of Engineering	Brooklyn, NY
Ph.D. in <b>Urban Systems</b>	2021 – 2025 (Expected)
Committee: Dr. ChengHe Guan (Advisor), Dr. Tyler Hauptert, Dr. Constantine Kontokosta, Dr. Shenjing He (HKU)	
<b>New York University</b> , Tandon School of Engineering	Brooklyn, NY
M. S. in <b>Management of Technology</b> , Data Analytics Specialization	2019 – 2021
<b>Western Kentucky University</b> , Ogden College of Science & Engineering	Bowling Green, KY
B. S. in <b>Computer Science</b> , Minor in Business Administration, <i>Magna Cum Laude</i>	2015 – 2019

## PUBLICATIONS

- [1] **Zhou, Y.**, Guan, C., Wu, L., Li, Y., Nie, X., Song, J., Kim, S. K., & Akiyama, Y. (2024). Visitation-based classification of urban parks through mobile phone big data in Tokyo. *Applied Geography*, 167, 103300.
- [2] Guan, C., & **Zhou, Y.** (2024). Exploring environmental equity and visitation disparities in peri-urban parks: A mobile phone data-driven analysis in Tokyo. *Landscape and Urban Planning*, 248, 105104.
- [3] Wu, L., **Zhou, Y.**, Nie, X., Kim, S. K., Shao, Y.\*, & Guan, C.\* (2024). “Unfenced” parks and residents’ visit patterns: A regression discontinuity design in Shanghai. *Urban Forestry & Urban Greening*, 78, 128459.
- [4] **Zhou, Y.**, Song, X., & Zhou, M. (2021). Supply chain fraud prediction based on XGBoost method. *Proceedings of the 2021 IEEE 2nd International Conference on Big Data, Artificial Intelligence and Internet of Things Engineering (ICBAIE)* (pp. 539-542).
- [5] **Zhou, Y.**, Cheng, Y., Lin, Y., & Mengqiu, T. (2021). Sales Forecasting Using GBDT Based Model and Data Mining Method. *2021 IEEE International Conference on Consumer Electronics and Computer Engineering (ICCECE)* (pp. 398-401).

## UNDER REVIEW

- [1] **Zhou, Y.**, Wu, T., Guan, C. (Under Review). How perceived residential environments affect neighborhood park visitation? A nonlinear analysis of mobile data and street view imagery.
- [2] Wu, L., **Zhou, Y.**, Nie, X., Kim, S. K., Guan, C., & Shao, Y. (Revise and Resubmit). Buffering effects of green space on residents’ mental wellbeing: A regression discontinuity analysis during “exiting from zero-COVID” period.
- [3] Wu, L., **Zhou, Y.**, Nie, X., & Guan, C. (Under Review). Enhancing subjective well-being through community and demographical moderators in planning indoor and outdoor green spaces.
- [4] Song, J., Guan, C., **Zhou, Y.**, Akiyama, Y., & Shibasaki, R. (Revise and Resubmit). Planning implications of visitor-oriented urban park categorization: An application of home-park trip characteristics from mobile phone data.
- [5] Xie, H., You, M., Guan, C., Lin, T., **Zhou, Y.**, Li, C., Xiao, Y., Wang, X., & Liu, X. (Under Review). Towards an equality evaluation mechanism of urban green space quality: A case study of Fuzhou, China.
- [6] Guan, C., Zhong, H., **Zhou, Y.**, Srinivasan, S., Zhang, B., & Nielsen, C. P. How do young adults’ choices of active travel influence the planning of low-carbon cities? (Under Review).

## SELECTED WORKS IN PROGRESS

- [1] **Zhou, Y.** Exploring human interactions with urban green space through social sensing and spatiotemporal analysis (Dissertation).
- [2] **Zhou, Y.**, Ren, X., Guan, C. The causal impact of urban park physical and visual features on visitation duration and activity intensity (Manuscript in preparation).
- [3] **Zhou, Y.**, Guan, C. Social sensing for planning urban green space: A review (Manuscript in preparation).

## AWARDS & HONORS

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Shanghai Key Laboratory of Urban Design and Urban Science (LOUD) Research Stipend	2022 – 2025
Wuhan University, 2024 International GeoInformatics Summer School (IGSS) Scholarship	2024
NYU Shanghai 2024 Post-Doctoral and Doctoral Research Assembly Best Oral Presentation Award	2024
New York University, 2023 Sustainability Internship Grant	2023
New York University, Tandon School of Engineering Merit Scholarship	2019 – 2021
Western Kentucky University, Magna Cum Laude	2019
Western Kentucky University, Dean's Scholarship	2016 – 2018
Western Kentucky University, President's List	2016, Fall 2018
Western Kentucky University, Dean's List	2017, Spring 2018

## CONFERENCE & SEMINAR PRESENTATIONS

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- [1] Classification of urban parks through visitation patterns using mobile data. (Nov. 2024). *64<sup>th</sup> Association of Collegiate Schools of Planning (ACSP) Annual Conference*, Seattle, WA.
- [2] How perceived residential environments affect neighborhood park visitation? (Nov. 2024). *The 2024 Middle States Division of the Association of American Geographers (MSAAG) Annual Meeting*, West Chester University, West Chester, PA.
- [3] Visitation-based classification of urban parks through mobile phone big data. (Jul. 2024). *18<sup>th</sup> International Association for China Planning (IACP) Annual Conference*, Zhejiang University, Hangzhou, China
- [4] Classification of urban parks through visitation patterns using mobile phone data in Tokyo. (Apr. 2024). *2<sup>nd</sup> Annual Post-doctoral and Doctoral Research Assembly*, NYU Shanghai, Shanghai, China.
- [5] Exploring environmental equity and visitation disparities in peri-urban parks. (Jan. 2024). *Urban Systems Institute (USI) Inaugural Conference*, the University of Hong Kong, Hong Kong, China
- [6] Buffering Effect of Urban Green Space on Mental Health – a Case Study of Shanghai. (Dec. 2023). *2022 achievement exchange conference for open topic grants of the built environment technology center*, Tongji University, Shanghai, China
- [7] Planning for Urban Green Infrastructure Using AI and Urban Sensing Techniques. (May 2023). *2<sup>nd</sup> annual conference of the Shanghai Key Laboratory of Urban Design and Urban Science & 2023 Urban Development Forum*, Shanghai, China
- [8] Can peri-urban parks mitigate environment and social equity? A case study of Tokyo using mobile phone data. (Apr. 2023). *10<sup>th</sup> Anniversary NYU Shanghai Post-doctoral and Doctoral Research Assembly*, NYU Shanghai, Shanghai, China. (Poster)
- [9] Advanced Urban Anomaly Detection Using Deep Learning: Insights and Policy Implications. (Feb. 2022). *1<sup>st</sup> annual conference of the Shanghai Key Laboratory of Urban Design and Urban Science*, virtual.

## OTHER RESEARCH EXPERIENCE

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<b>Laboratory of Urban Design and Urban Science (LOUD), NYU Shanghai</b>	Shanghai, China
Research Associate, Supervisor: Prof. ChengHe Guan	Sep. 2022 – Present
<ul style="list-style-type: none"><li>Facilitated research collaborations with government entities, industry sponsors, and international research teams.</li><li>Contributed to "The Path Toward Climate Park Community" project for Biennale Architettura 2025.</li></ul>	
<b>Urban Green Spaces for Wellbeing Project, Peking University</b>	Virtual
Project Member, Principal Investigator: Prof. Longfeng Wu	Jun. 2023 – Present
<ul style="list-style-type: none"><li>Performed data analysis, visualization, and contributed to the drafting and editing of manuscript.</li><li>Prepared and presented key project findings to stakeholders, including funding providers.</li></ul>	
<b>AI + Climate Futures in Asia Project, Digital Futures Lab (India)</b>	Virtual
Project Member, Principal Investigator: Dr. Urvashi Aneja	Jan. 2023 – Dec. 2023
<ul style="list-style-type: none"><li>Conducted research and drafted the "Integrating AI for Climate-Resilient Urban Planning in China" report, a project supported by the Rockefeller Foundation.</li></ul>	

## TEACHING

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**URPL-GP 2250 Planning Global Cities**, NYU Wagner Graduate School of Public Service New York, NY  
*Teaching Assistant, Graduate course, Instructor: Prof. ChengHe Guan* Fall 2024

- Supported course assignments, mentored student projects, and managed online learning materials.
- Organized and led field trips to urban green spaces and key city landmarks, fostering experiential learning.
- Conducted a specialized workshop on advanced literature review techniques for urban studies.

**SOCS-SHU 247 Computational Urban Science**, NYU Shanghai Shanghai, China  
*Workshop lecture, Undergraduate course, Instructor: Prof. ChengHe Guan* Fall 2022

- Delivered a workshop titled "Exploring Urban Landscapes from Above: An Introduction to Google Earth Engine."

**Department of Applied Physics**, NYU Tandon School of Engineering Brooklyn, NY  
*Graduate Assistant, Undergraduate courses, Supervisor: Prof. John Di Bartolo* Sep. 2019 – May 2021

- Prepared and organized course contents and material for quizzes, midterms, and finals.

## ACADEMIC SERVICE

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**18<sup>th</sup> Annual Conference of the International Association for China Planning** Hangzhou, China  
*Session Chair, Session: Urban Mobility and Environmental Impact* Jul. 2024

- Chaired a session featuring five presentations attended by over 30 participants, facilitated in-depth discussions.

**2023 Urban Development Forum & 2<sup>nd</sup> annual conference of the Shanghai Key Laboratory of Urban Design and Urban Science** Shanghai, China  
*Conference Assistant* 2022 – 2023

- Coordinated logistics and assisted with event organization, managing over 100 attendees and facilitating 15 talks.

## PROFESSIONAL ASSOCIATIONS

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Association of Collegiate Schools of Planning (2022 - Present)

International Association for China Planning (2022 - Present)

Regional Studies Association (2023 - Present)

Urban Affairs Association (2024 - Present)

American Association of Geographers (2024 - Present)

## PROFESSIONAL EXPERIENCE

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**Amazon Web Services, Inc.** Shanghai, China  
*Program Management Intern* Mar. 2021 – Aug. 2021

- Analyzed customer data and optimized prioritization for manufacturing and technical roles.
- Supported Fintech expansion and Alexa Voice Service (AVS) integration for AWS IoT programs.

**Bosch (China) Investment Ltd.** Shanghai, China  
*Data Science Intern* Sep. 2020 – Feb. 2021

- Developed machine learning algorithms for lane change detection and surface wetness monitoring.

**Tencent Holdings Ltd.** Shenzhen, China  
*Data Science Intern* Jun. 2020 – Aug. 2020

- Improved sensor data quality by implementing time series forecasting for early warning systems.

## SKILL & INTERESTS

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**Programming & Applications:** Python, SQL, R, ArcGIS, QGIS, Stata, Google Earth Engine, Tableau

**Languages:** Mandarin Chinese (Native), English (Proficient)

**Interests:** Swimming, Go Chess, Basketball, Auto Racing, Jogging