

Ryan Zhenqi Zhou

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EDUCATION

2021 - Present **Ph.D. (Geography)**
University at Buffalo - SUNY, USA
Supervisor: Prof. Yingjie Hu

2018 - 2021 **Master of Engineering (Landscape Architecture)**
Nanjing Forestry University, China

2014 - 2018 **Bachelor of Agriculture (Landscape Architecture)**
Zhejiang A&F University, China

RESEARCH & WORK EXPERIENCE

May 2023 – Present **Research Assistant to Prof. Yingjie Hu**
GeoAI Lab, Department of Geography, University at Buffalo - SUNY, USA

August 2022 – May 2023 **Teaching Assistant to Prof. Yingjie Hu**
Department of Geography, University at Buffalo - SUNY, USA
GEO 481/506 Geographical Information Systems

May 2022 – August 2022 **Research Assistant to Prof. Yingjie Hu**
Funded by NSF Research Experience for Graduates (REG) Grant

August 2021 – May 2022 **Research Assistant to Prof. Yingjie Hu**
GeoAI Lab, Department of Geography, University at Buffalo - SUNY, USA

August 2020 - October 2020 **Spatial data analyst (Intern)**
MetroDataTech

September 2018 – June 2021 **Research Assistant to Prof. Zhen Xu**
School of Landscape Architecture, Nanjing Forestry University, China

RESEARCH EXPERTISE & SKILLS

- Geospatial data science, spatial analysis, statistical analysis, GeoAI
- Landscape design and planning
- Well versed in using Python, R, ArcGIS Pro, Photoshop, InDesign, CAD, Sketchup, Lumion, etc.

PUBLICATIONS

2023 Sun, K., Hu, Y., Ma, Y., **Zhou, R. Z.**, & Zhu, Y. (2023): Conflating point of interest (POI) data: A systematic review of matching methods. *Computers, Environment and Urban Systems*, 103, 101977, <https://doi.org/10.1016/j.compenvurbsys.2023.101977>

2023 Xu Z., Li M., Chen Y., & **Zhou R.Z.** (2023): Assessing the cycling accessibility of comprehensive parks with online maps: a case study of Nanjing City. *Journal of Nanjing Forestry University Natural Science*, 1-8 (in Chinese).

2022 **Zhou R.Z.**, Hu Y., Tirabassi J.N, Ma Y., & Xu Z. (2022): Deriving neighborhood-level diet and physical activity measurements from anonymized mobile phone location data for enhancing obesity estimation. *International Journal of Health Geographics*, 21, 22, <https://doi.org/10.1186/s12942-022-00321-4>

2022 Zhang B., Dong Y., Kelobonye K., **Zhou R.Z.**, & Xu Z. (2022): Delineating walking catchment of the existing and proposed public sports facilities with open-source data: a case study of Nanjing. *Applied Spatial Analysis and Policy*, <https://doi.org/10.1007/s12061-022-09499-3>

2022 Chen Y., Zhang B., Li M., **Zhou R.Z.**, & Xu Z. (2022): Concatenating daily exercise routes with public

- sports facilities, bicycle lanes, and green spaces: a feasibility analysis in Nanjing, China. *Land*, 11, 2251. <https://doi.org/10.3390/land11122251>
- 2022** Yue M., Hu Y., Moncrieff G.R., Slingsby J.A., Wilson A.M., Maitner B., & **Zhou R.Z.** (2022): Forecasting vegetation dynamics in an open ecosystem by integrating deep learning and environmental variables. *International Journal of Applied Earth Observation and Geoinformation*, 114, 103060. <https://doi.org/10.1016/j.jag.2022.103060>
- 2022** Dong Y., Zhang B., **Zhou R.Z.**, & Xu Z. (2022): Assessing the accessibility of swimming pools in Nanjing by walking and cycling using Baidu Maps. *International Journal of Geo-Information*, 11(10), 515. <https://doi.org/10.3390/ijgi11100515>
- 2021** **Zhou R.Z.**, Xu Z., Liu A., Zhou S., Mu L., & Zhang X. (2021): Mapping the accessibility of medical facilities of Wuhan during the COVID-19 pandemic. *International Journal of Geo-Information*, 10(5), 318. <https://doi.org/10.3390/ijgi10050318>
- 2021** Xu Z., **Zhou R.Z.**, Wang Y., Han L., & Xing J. (2021): Analysis on walking shed in comprehensive parks and urban form from a Park-City perspective. *City Planning Review*, 45(03), 81-90 (in Chinese).
- 2021** Xu Z., Liu A., **Zhou R.Z.**, & Han L. (2021): Analyzing and scenarioizing walking routes and urban context of middle school students with Baidu Map: a case study of Jianye District of Nanjing. *Modern Urban Research*, 2, 33-40+91 (in Chinese).
- 2021** Xu Z., Gao Z., **Zhou R.Z.**, & Zhang J. (2021): Research on campus sitting space: a case study of Nanjing Forestry University. *Modern Urban Research*, 4, 30-35 (in Chinese).
- 2020** **Zhou R.Z.** & Xu Z. (2020): Detecting the pedestrian shed and walking route environment of urban parks with open-source data: a case study in Nanjing, China. *International Journal of Environmental Research and Public Health*, 17(13), 4826. <https://doi.org/10.3390/ijerph17134826>
- 2020** Liu A., Kelobonye K., **Zhou R.Z.**, Xu Q., Xu Z., & Han L. (2020): School commuting mode shift: a scenario analysis for active school commuting using GIS and online map API. *International Journal of Geo-Information*, 9(9), 520. <https://doi.org/10.3390/ijgi9090520>
- 2020** Zhang J., **Zhou R.Z.**, & Xu Z. (2020): Suitability evaluation of university facilities layout based on demand characteristics: taking several universities in Nanjing as examples. *Modern Urban Research*, 4, 43-51 (in Chinese).

CONFERENCE & WORKSHOP PRESENTATIONS

- 2023** Oral presentation (2023): Understanding spatial and temporal impacts of the Texas winter storm in 2021 via mobile phone location data and nighttime light images, in the *2023 AAG Annual Meeting*, Mar. 26, 2023, Denver, Colorado, USA.
- 2022** Oral presentation (2022): Deriving neighborhood-level diet and physical activity measurements from anonymized mobile phone location data for enhancing obesity estimation, in the *GEOMED 2022*, Oct. 14, 2022, University of California, Irvine, California, USA.
- 2022** Poster presentation: Human mobility data demonstrates increase in park visitation since start of COVID-19 pandemic in Buffalo, New York, in the *American College of Preventive Medicine (ACPM) 2022 annual meeting*, Jun. 15-18, 2022, Denver, Colorado, USA (Co-Author).
- 2022** Poster presentation: Mapping the accessibility of medical facilities of Wuhan the COVID-19 pandemic, in the *University Consortium for Geographic Information Science (UCGIS) Symposium 2022*, Jun. 7-9, 2022, Syracuse, New York, USA.
- 2022** Oral presentation: The role of place visits related to diet and physical activity from mobile phone location data in enhancing obesity estimation at the neighborhood level, in the *Graduate Student Lightning Talks, Spring 2022 Colloquium Speaker Series, UB Department of Geography*, Feb. 18, 2022, Buffalo, New York, USA.
- 2019** Poster presentation: Measuring the walkability around the urban parks: a case study of Nanjing, in the *16th International Conference on Urban Health*, Nov. 4-8, 2019, Xiamen, Fujian, China.
- 2019** Poster presentation: Mapping the service area and population of urban parks for park city initiative: a case study of Nanjing, in the *16th International Conference on Urban Health*, Nov. 4-8, 2019, Xiamen, Fujian, China.
- 2019** Oral presentation: Old community renovation based on data analysis, in the *9th Summer Workshop DigitalFUTURES YOUNG Forum 2019—Architectural Intelligence held at the School of Architecture and Urban Planning (CAUP), Tongji University*, Jun. 30 to Jul. 6, 2019, Shanghai, China.
- 2019** Poster presentation: Intelligence and Strategy of Urban Deduction—Spark Planning (UrbanGAN), in the *9th Summer Workshop DigitalFUTURES SHANGHAI 2019—Architectural Intelligence held at the School of Architecture and Urban Planning (CAUP), Tongji University*, Jun. 30 to Jul. 6, 2019, Shanghai, China (Co-Author)
- 2019** Oral presentation: Social Loop, loops to connect city and communities, in the *International Digital*

Urban Design Week held by International Society of City & Regional Planners (ISOCARP) and Southeast University, Jun. 10-15, 2019, Nanjing, Jiangsu, China.

- 2018** Poster presentation: The urban community agriculture practices in Chinese cities: case studies in Nanjing, in the *15th International Conference on Urban Health*, Nov. 27-30, 2018, Kampala, Uganda, Africa (Co-Author).

AWARDS & GRANTS

- 2023** Hugh W. Calkins Applied GIS Award, By Department of Geography at the University at Buffalo - SUNY, \$1400
- 2022** NSF Research Experience for Graduates (REG) Grant, by Human-Environment and Geographical Sciences (HEGS) program in the National Science Foundation's (NSF), Student PI, \$6000
- 2021** Outstanding Graduate Award, by Nanjing Forestry University
- 2020** Funded student research project by the Postgraduate Research & Practice Innovation Program of Jiangsu Province (KYCX20_0893), Department of Education, Jiangsu, China, Student PI, ¥15000
- 2020** National Scholarship Award, by Department of Education, China
- 2020** Outstanding Graduate Student Award, by Nanjing Forestry University
- 2020** First-class Scholarship Award, by Nanjing Forestry University
- 2019** Best Project Award, International Digital Urban Design Week held by International Society of City & Regional Planners (ISOCARP) and Southeast University in Nanjing
- 2019** Second-class Scholarship Award, by Nanjing Forestry University
- 2017** Third-class Scholarship Award, by Zhejiang A&F University
- 2016** Second Prize, 4th ZAFU Career Planning Competition, by Zhejiang A&F University
- 2015** Third Prize, 4th ZAFU 'Beautiful Village' Design Competition, by Zhejiang A&F University

SERVICE

Peer Review for Academic Journals

- Computational Urban Science
- Environment and Planning B: Urban Analytics and City Science
- Journal of Map

Committee Service

- Co-host of GISalon, GISphere (Student-initiated volunteer organizations), Oct. 2021-present, USA.
- Faculty Liaison for PhD, Geography GSA, University at Buffalo - SUNY, Sept. 2022-present, USA.
- Conference Assistant, 2023 AAG Annual Meeting, Mar. 23-27, 2023, USA.