Ryan Zhenqi Zhou

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EDUCATION EXPERIENCE

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 Gardening)**
	Zhejiang A&F University, China

RESEARCH & WORK EXPERIENCE

August 2022 – Present	**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

SKILLS & COMPETENTIES

- GIS, spatial analysis, statistical analysis, machine learning
- Landscape design and planning
- Well versed in using Python, R, ArcGIS Pro, Photoshop, InDesign, CAD, Sketchup, Lumion, etc.

PUBLICATIONS

2022   **Zhou, R.Z.**, Hu, Y., Tirabassi, J., Ma, Y & Xu, Z. Deriving neighborhood-level diet and physical activity measurements from anonymized mobile phone location data for enhancing obesity estimation. Under Review.

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. DOI: 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. DOI: 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. DOI: 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

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

2022	NSF Research Experience for Graduates (REG) Grant, by Human-Environment and Geographical Sciences (HEGS) program in the National Science Foundation's (NSF).
2021	Outstanding graduate, by Nanjing Forestry University.
2020	Funding 'Postgraduate Research & Practice Innovation Program of Jiangsu Province (KYCX20_0893)', PI, by Education Department of Jiangsu.
2020	National Scholarship, by Education Department of China.
2020	The Candidate of National Top 10 Graduate Students of Academy of Forestry, by China Education Association of Forestry.
2020	Merit Student Award, by Nanjing Forestry University.

2020	First-class Scholarship, 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, by Nanjing Forestry University.
2017	Third-class Scholarship, 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 (2)

Committee Service

- Co-host, GISalon, GISphere (Student academic organizations), Oct. 2021-present, USA.
- Faculty Liaison for PhD, Geography GSA, University at Buffalo - SUNY, Sept. 2022-present, USA.