# Zhen Qian

 ₽ Personal Website
 Image: Google Scholar
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Address: Nanjing Normal University, No.1, Wenyuan Road, Xianlin University District, Nanjing, China

## **EDUCATION**

M.S in Cartography and Geographic Information System Overall GPA: 3.81/4.0 Sept., 2020-Jun., 2023

(Top National Discipline, ranked Top1% in China) (Ranked Top 3%) (Expected)

School of Geography, Nanjing Normal University

**B.S** in Geographic Information Science Overall GPA: 3.77/4.0 Sept., 2016-Jun., 2020 (Top Provincial Discipline)

(Ranked Top 1%)

School of Geographical Science, Nantong University

## RESERCH INTERESTS

GIScience, Remote Sensing, Spatial Data Mining, Machine learning, Deep Learning

## **PUBLICATIONS**

- Qian, Z., Chen, M., Yang, Y., Zhong, T., Zhang, F., Zhu, R., Zhang, K., Zhang, Z., Sun, Z., Ma, P., Lü, G., Ye, Y. and Yan, J., 2022. Vectorized dataset of roadside noise barriers in China using street view imagery. Earth System Science Data Discussions, pp.1-30. (Preprint, Under Review, IF 11.333, JCR Q1) [PDF] [DOI]
- Qian, Z., Chen, M., Zhong, T., Zhang, F., Zhu, R., Zhang, Z., Zhang, K., Sun, Z. and Lü, G., 2022. Deep Roof Refiner: A detailoriented deep learning network for refined delineation of roof structure lines using satellite imagery. International Journal of Applied Earth Observation and Geoinformation, 107, p.102680. (IF 5.933, JCR Q1) [PDF] [DOI]
- Qian, Z., Liu, X., Tao, F. and Zhou, T., 2020. Identification of urban functional areas by coupling satellite images and taxi GPS trajectories. Remote Sensing, 12(15), p.2449. (IF 4.848, JCR Q1) [PDF] [DOI]
- Qian, Z., Zhou, T., Tao, F., Fan, Z., Liu, H. and Lu, J., 2020. Cluster-Based Extraction Method of Entrances and Exits in AOI. Geography and Geo-Information Science, 36(2), pp.1-7. (In Chinese, Chinese Core Journals) [PDF] [DOI]
- Oian, Z., Zhou, T., Ma, P., Tao, F. and Liu, H., 2019. A Detection Method for Passenger Safety Based on GIS. Journal of Transport Information and Safety, 37(4), pp.35-43. (In Chinese, Chinese Core Journals) [PDF] [DOI]
- Qian, Z., Zhou, T., Kang, T., Fan, Z. and Lu, J., 2018. Study on Discrimination Method of Urban Road Congestion Based on Taxi. Logistics Engineering and Management, 40(02), pp.118-120+112. (In Chinese) [PDF] [DOI]
- Zhang, K., Qian, Z., Yang, Y., Chen, M., Zhong, T., Zhu, R., Lv, G. and Yan, J., 2022. Using street view images to identify road noise barriers with ensemble classification model and geospatial analysis. Sustainable Cities and Society, 78, p.103598. (IF 7.587, JCR Q1) [PDF] [DOI]
- Zhang, Z., Qian, Z., Zhong, T., Chen, M., Zhang, K., Yang, Y., Zhu, R., Zhang, F., Zhang, H., Zhou, F., Yu, J., Zhang, B., Lü, G., Yan, J., 2022. Vectorized rooftop area data for 90 cities in China. Scientific Data, 9, 66. (IF 6.444, JCR Q1) [PDF] [DOI]
- Zhou, T., Liu, X., Qian, Z., Chen, H. and Tao, F., 2020. Automatic identification of the social functions of areas of interest (AOIs) using the standard hour-day-spectrum approach. ISPRS International Journal of Geo-Information, 9(1), p.7. (IF 2.899, JCR Q2) [PDF] [DOI]
- Zhou, T., Liu, X., Qian, Z., Chen, H. and Tao, F., 2019. Dynamic update and monitoring of AOI entrance via spatiotemporal clustering of drop-off points. Sustainability, 11(23), p.6870. (IF 3.251, JCR Q2) [PDF] [DOI]
- Zhong, T., Zhang, K., Chen, M., Wang, Y., Zhu, R., Zhang, Z., Zhou, Z., Qian, Z., Lv, G. and Yan, J., 2021. Assessment of solar photovoltaic potentials on urban noise barriers using street-view imagery. Renewable energy, 168, pp.181-194. (IF 8.001, JCR *Q1)* [PDF] [DOI]

## **HONORS & AWARDS**

**Contests** 

•	National Graduate Student Mathematical Modeling Competition	2020
	Second Prize, Team Leader	
•	National Innovation and Entrepreneurship Competition of Intelligent Transportation	2019
	Second Prize	2010
•	National Professional Software Engineering "Blue Bridge Cup" Design Contest  Third Prize, Individual	2019
•		2019
	Jiangsu Provincial Professional Software Engineering "Blue Bridge Cup" Design Contest First Prize, Individual	2019
	Beidou-Cup Adolescents Science & Technology Invention Contest in East China	2019
	Second Prize, Team Leader	2017
•	COMAP's Mathematical Contest in Modeling	2018
	Meritorious Winner, Team Leader	2010
•	National Undergraduate GIS Application Skills Contest	2018
	First Prize, Team Leader	2010
•	National Innovation and Entrepreneurship Competition of Intelligent Transportation	2018
	Third Prize, Team Leader	2010
•	Jiangsu Provincial Mapping and GIS Innovation and Entrepreneurship Competition	2018
	Second Prize, Team Leader	2010
•	Jiangsu Provincial Computer Design Competition for College Students	2018
	Second Prize	2010
•	National Undergraduate GIS Application Skills Contest	2017
	First Prize	2017
•	Jiangsu Provincial Mapping and GIS Innovation and Entrepreneurship Competition	2017
	Grand Prize, Team Leader	2017
Sch	nolarships	
•	First-class Scholarship in University for Postgraduates	2020 & 2021
	Ranked Top 3%	
•	National Scholarship for Undergraduates	2018
	Ranked Top 1%	
•	The Prince's Scholarship Funded by Social Enterprises for Undergraduates	2017 & 2019
	Ranked Top 1%	
•	First-class Scholarship in University for Undergraduates	2017, 2018 & 2019
	Ranked Top 1%	
Но	nors	
•	Outstanding Communist Youth League Student Leaders in University for Postgraduates	2022
	Ranked Top 1%	
•	Outstanding Student Leaders in University for Postgraduates	2021
	Ranked Top 1%	
•	Excellent Graduation Design (Thesis) in Jiangsu for Undergraduates	2021
	Ranked Top 1%	
•	Excellent Graduation Thesis of Surveying and Mapping in Jiangsu for Undergraduates	2020
	Ranked Top 1%	
•	Outstanding Student Leaders in Jiangsu for Undergraduates	2019
	Ranked Top 1%	
•	Merit Student Pioneer in University for Undergraduates	2018
	Ranked Top 1%	
•	Outstanding Student Leaders in University for Undergraduates	2017 & 2019
	Ranked Top 1%	

## **EXPERIENCES**

## **Research Projects**

2022-Present
2018-2019
2017-2018
July, 2022
(Expected)

•	Teaching assistant for "Spatio-temporal big data analysis methods" and taught class session "Spatial	Nov., 2021
	intelligence analysis for big data in the new era"	

•	Teaching assistant for	"Spatial data structure"	Sept	t., 2018
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Teaching assistant for "Fundamentals of GIS algorithms"
 May, 2018
 Teaching assistant for "C/C++ language programming"
 Sept., 2017

## **SKILLS & ACTIVITIES**

## Language

Mandarin (Native), English (Professional Proficiency; IELTS score: 6.5)

## **Programming**

Python (Proficient, including OpenCV, Pytorch, Numpy, Pandas, Matplotlib, GDAL, etc.), R, Matlab, Server (MacOS/Window/Ubuntu), C++, Java, Html/Css/Javascript

#### Software

ArcGIS, QGIS, SPSS, Envi, Photoshop, EndNote, Microsoft Office

## **Certifications & Training**

Data science and face recognition algorithms winter camp (2 weeks), National geographic analysis model training (1 month)