

Curriculum Vitae

Zhen Qian

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Nanjing Normal University, No.1, Wenyuan Road, Xianlin University District, Nanjing, China

EDUCATION & SCORES

- **M.S** in *Cartography and Geographic Information System* Overall GPA: 3.81/4.0 09/2020-06/2023 (Expected)
School of Geography, Nanjing Normal University
- **B.S** in *Geographic Information Science* Overall GPA: 3.77/4.0 09/2016-06/2020
School of Geographical Science, Nantong University
- **IELTS:** R/L/S/W */*/*/* Overall Band Score: * *Preparing*

RESEARCH INTERESTS

Spatial Data Mining, Machine learning, Deep Learning, Computer Vision, Geographic Modeling

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*. [Under Review, IF 11.333, JCR Q1]
- **Qian, Z.**, Chen, M., Zhong, T., Zhang, F., Zhu, R., Zhang, Z., Zhang, K., Sun, Z. and Lü, G., 2022. Deep Roof Refiner: A detail-oriented 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]
- **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]
- **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]
- **Qian, 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]
- **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]
- 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]
- Zhang, Z., **Qian, Z.**, Zhong, T., Chen, M., Zhang, K., Zhu, R., Zhang, F., Zhang, H., Zhou, F., Yu, J., Zhang, B., Lü, G., and Yan, J., 2022. Vectorized rooftop area data for 90 cities in China. [Accepted, IF 6.444, JCR Q1]
- 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]
- 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]
- 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]

HONORS & AWARDS

Contests

- China Graduate Student Mathematical Modeling Competition 2020
Second Prize, Team Leader
- National Innovation and Entrepreneurship Competition of Intelligent Transportation 2019
Second Prize
- National Professional Software Engineering "Blue Bridge Cup" Design Contest 2019

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

SKILLS, ACTIVITIES & INTERESTS

Programming

Python, R, Matlab, Server (MacOS/Window/Ubuntu), C++, Java, Html/Css/Javascript

Software

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

Certifications & Training

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

Interests

Fitness, Swimming, Cycling, Badminton