Zhen Qian

 ☐ Personal Website (click)
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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

Spatial Data Mining, Computer Vision, Machine learning, Deep Learning, GIScience, 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) DOI: 10.1016/j.jag.2022.102680
- 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) DOI: 10.3390/rs12152449
- 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) DOI: 10.3969/j.issn.1672-0504.2020.02.001
- 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) DOI: 10.3963/j.issn.1674-4861.2019.04.005
- 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) DOI: 10.3969/j.issn.1674-4993.2018.02.042
- 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) DOI: 10.1016/j.scs.2021.103598
- 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) DOI: 10.1038/s41597-022-01168-x
- 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) DOI: 10.3390/ijgi9010007
- 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) DOI: 10.3390/su11236870
- 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) DOI: 10.1016/j.renene.2020.12.044

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 This I Bridge Cup" Design Contest	2019
Third Prize, Individual Isonogy Provincial Professional Software Engineering "Plya Bridge Cyn" Design Contact	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	
National Innovation and Entrepreneurship Competition of Intelligent Transportation	2018
Third Prize, Team Leader	
 Jiangsu Provincial Mapping and GIS Innovation and Entrepreneurship Competition 	2018
Second Prize, Team Leader	
 Jiangsu Provincial Computer Design Competition for College Students 	2018
Second Prize	
National Undergraduate GIS Application Skills Contest	2017
First Prize	
Jiangsu Provincial Mapping and GIS Innovation and Entrepreneurship Competition	2017
Grand Prize, Team Leader	
Scholarships • First along Saladarship in Hairannita for Bostona hartan	2020 8 2021
• First-class Scholarship in University for Postgraduates	2020 & 2021
Ranked Top 3% ■ National Scholarship for Undergraduates	2018
Ranked Top 1%	2016
The Prince's Scholarship Funded by Social Enterprises for Undergraduates	2017 & 2019
Ranked Top 1%	2017 & 2017
First-class Scholarship in University for Undergraduates	2017, 2018 & 2019
Ranked Top 1%	,
Honors	
 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%	2015 0 2010
Outstanding Student Leaders in University for Undergraduates Parked Top. 19/	2017 & 2019
Ranked Top 1%	

EXPERIENCES

Research Projects

• Jiangsu Provincial Graduate Research and Practice Innovation Program: "Research on spatial	2022-Present
intelligence analysis method considering knowledge of geographic mechanisms", funded by	
Department of Education, Jiangsu Province, P.R. China, Individual	
• Jiangsu Provincial College Students' Innovative Entrepreneurial Training Plan Program: "Research on	2018-2019
travel behavior supervision method based on artificial intelligence technology", funded by	
Department of Education, Jiangsu Province, P.R. China, Team leader	
• National College Students' Innovative Entrepreneurial Training Plan Program: "Design and	2017-2018
application of intelligent scenic spot regulation model based on visitor trajectory", funded by	
Ministry of Education, P.R. China, Core member and developer	
Academic Activities	
 Oral presentation at the 8th National Academic Conference on Virtual Geographic Environment, titled 	Apr., 2022
"Roof structure line delineation based on deep learning and high-resolution satellite imagery",	(Expected)
Ganzhou, Jiangxi Province, P.R. China	
Teaching Experiences	
• Teaching assistant for "Spatio-temporal big data analysis methods" and taught class session "Spatial	Nov., 2021

•	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)