

(This CV is updating)

## Zhen Qian

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### EDUCATION & SCORES

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

### RESEARCH INTERESTS

GIScience; Machine learning; Deep Learning; Computer Vision; Spatial Data Science; 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 Q2)
- 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 Q3)
- 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 Q3)
- 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)
- **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)

### HONORS & AWARDS

#### Contests

- China Graduate Student Mathematical Modeling Competition (**Second Prize, Team Leader**), Dec., 2020
- The National Innovation and Entrepreneurship Competition of Intelligent Transportation for College Students (**Second Prize**), May, 2019
- The National Professional Software Engineering "Blue Bridge Cup" Design Contest (**Third Prize, Individual**), May, 2019
- The National Professional Software Engineering "Blue Bridge Cup" Design Contest Jiangsu Province Preliminary

Round (**First Prize, Individual**), *Mar. 2019*

- Beidou-Cup China Adolescents Science & Technology Invention Contest in East China (**Second Prize, Team Leader**), *Apr., 2019*
- COMAP's Mathematical Contest in Modeling (**Meritorious Winner, Team Leader**), *Apr., 2018*
- The National College Student GIS Application Skills Contest (**First Prize, Team Leader**), *Dec., 2018*
- The National Innovation and Entrepreneurship Competition of Intelligent Transportation for College Students (**Third Prize, Team Leader**), *Jul., 2018*
- The Jiangsu University Mapping and Geographic Information Innovation and Entrepreneurship Competition (**Second Prize, Team Leader**), *Oct., 2018*
- Computer Design Competition for Students in Jiangsu Province (**Second Prize**), *May, 2018*
- The National College Student GIS Application Skills Contest (**First Prize**), *Dec., 2017*
- The Jiangsu University Mapping and Geographic Information Innovation and Entrepreneurship Competition (**Grand Prize, Team Leader**), *Sept., 2017*

### 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%**), *Dec., 2021*
- Excellent Graduation Design (Thesis) in Jiangsu Province for Undergraduates (**Top 1%**), *Sept., 2021*
- Excellent Graduation Thesis of Surveying and Mapping in Jiangsu Province for Undergraduates (**Top 1%**), *Nov., 2020*
- Outstanding Student Leaders in Jiangsu Province for Undergraduates (**Top 1%**), *Apr. 2019*
- Merit Student Pioneer in University for Undergraduates (**Top 1%**), *Sept., 2018*
- Outstanding Student Leaders in University for Undergraduates (**Top 1%**), *Sept., 2017 & Sept., 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