(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*

RESERCH 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 5%**), *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 5%**), *2017, 2018 & 2019*

Honors
- Outstanding Student Leaders in University for Postgraduates (**Top 2%**), *Dec., 2021*
- Excellent Graduation Design (Thesis) in Jiangsu Province for Undergraduates (**Top 1%**), *Nov., 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 2%**), *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