

Prof. Qiming Zheng (Jimmy)

Assistant Professor

Department of Geography and Resource Management

The Chinese University of Hong Kong

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RESEARCH INTERESTS

My research interests center on understanding the human-environment-climate nexus. I aim to leverage remote sensing based geospatial intelligence, environment and climate models, and other advanced interdisciplinary approaches to better understand the impacts of human activities on environmental and climate changes, and to deliver policy-relevant solutions to cutting-edge challenges in climate change mitigation and sustainable development. My current research focuses on the following themes:

- Remote sensing of urban environment;
- Opportunities and uncertainties in nature-based climate solutions;
- Global environmental and climate changes;
- Nighttime light remote sensing;

APPOINTMENTS

- 2024.07- Present** Assistant Professor (Tenure-Track), Department of Geography and Resource Management, The Chinese University of Hong Kong
- 2024.01-2024.07** Adjunct Lecturer, Department of Geography and Resource Management, The Chinese University of Hong Kong
- 2023.01-2024.07** Research Assistant Professor, Department of Land Surveying and Geo-Informatics, Hong Kong Polytechnic University
- 2020.08-2023.01** Postdoctoral Research Fellow, Centre for Nature-based Climate Solutions, National University of Singapore (Supervisor: Vice President Chair Prof. [Lian Pin KOH](#))

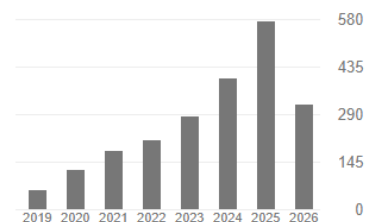
EDUCATION

- 2015-2020** PhD in Remote Sensing and Geographic Information Systems, Zhejiang University
- 2011-2015** BSc in Environment and Resources Sciences, Zhejiang University




PUBLICATIONS

I have published **54** scientific articles in high-profile journals, such as *Nature Cities*, *Nature Communications*, *Remote Sensing of Environment*, *ISPRS Journal of Photogrammetry and Remote Sensing*, *IEEE TGRS*, *Global Change Biology*, etc.

- Total journal publications: **52**
(First/Corresponding author: **21**; Under review: 5)
- Total citations: **2262**
- H-index: **26**
- Book chapters: **3**; Comment/Letter: **1**




Selected Publications

- [1] **Zheng Q**, Seto KC, Zhou Y, You S, Weng Q*. Nighttime light remote sensing for urban applications: progress, challenges, and prospects. [*ISPRS Journal of Photogrammetry and Remote Sensing*](#). 2023.
 Highly Cited Paper (Top <1%);  Most downloaded paper in ISPRS Journal
- [2] **Zheng Q***, Ha T, Prishchepov A, et al. The neglected role of abandoned cropland in supporting food security and climate change mitigation. [*Nature Communications*](#).2023.
 Highly Cited Paper (Top<1%)
Media: EurekaAlert AAAS; BNN Bloomberg; Earth.com; Phys.org; Foodnavigator.com; etc.
Cited by: United Nation Convention to Combat Desertification: Synergy Report (2023)
- [3] **Zheng Q***. Cities at night: seeing the unseen. [*Nature Cities*](#) 2024.
Media: Editorial of Nature Cities
- [4] **Zheng Q**, Weng Q, Wang K. Characterizing urban changes of 30 global mega-cities using dense nighttime light time series stacks. [*ISPRS Journal of Photogrammetry and Remote Sensing*](#). 2021.
(Most popular paper in ISPRS Journal in the past 3 years)
- [5] **Zheng Q**, Weng Q, Huang L, et al. A new source of multi-spectral high spatial resolution night-time light imagery—JL1-3B. [*Remote Sensing of Environment*](#). 2018.

Journal Articles (*Corresponding author; #Supervised students/RA)

- [1] Hu J, ..., **Zheng Q**, Zhou Y*. Human-induced Heat Dominates Surface Urban Heat Islands across Major Chinese Cities. (Under revision in [*PNAS*](#)). 2026
- [2] Guo B, ..., **Zheng Q**, et al., High-spatial-resolution mapping of annual anthropogenic heat flux in the Beijing-Tianjin-Hebei urban agglomeration using the CUNTLI-based inventory method. (Major Revision under review in [*Remote Sensing of Environment*](#)). 2026
- [3] He T*, **Zheng Q**, et al. Global urban cooling through neighboring water bodies in summer. (Under review in [*npj Climate and Atmospheric Science*](#)). 2025
- [4] Lu M, Sun H*, **Zheng Q**, et al. Excessive ecological restoration amplified the modulating effect of vegetation on flash drought. (Under review in [*npj Urban Sustainability*](#)). 2025
- [5] Luo H#, Zhao Y#, Liao X#, Liu X, **Zheng Q***, Lee HF. Strategic urban afforestation in the Greater Bay Area towards 2050: Spatiotemporally explicit assessment of potential and trade-offs. [*Urban Forestry & Urban Greening*](#). 2026
- [6] Yang R#, ..., **Zheng Q***. PV Deployment across 1% of Suitable Marginal Land in China Enables Energy and Sustainability Co-benefits. [*Communications Earth & Environment*](#). 2026.
- [7] **Zheng Q***, Mu T#, et al. Robust Reconstruction of Seamless Daily VIIRS Nighttime Light Imagery with Cloud Mask Refinement and Multi-Strategy Spatiotemporal Gap-filling. [*Remote Sensing of Environment*](#). 2026.
- [8] **Zheng Q***, Zeng Y, et al. Nighttime Lights Reveal Substantial Spatial Heterogeneity and Inequality in Post-Hurricane Recovery. [*Remote Sensing of Environment*](#). 2025
- [9] Mu T#, **Zheng Q***, He S. Robust disaster impact assessment with synthetic control modeling framework and daily nighttime light time series images. [*IEEE Transactions on Geoscience and Remote Sensing*](#). 2024.
- [10] **Zheng Q***. Cities at night: seeing the unseen. [*Nature Cities*](#) 2024.
Media: Editorial of Nature Cities
- [11] Dong B#, **Zheng Q***, et al. Integrating physical model-based features and spatial contextual

- information to estimate building height in complex urban areas. [*International Journal of Applied Earth Observation and Geo-information*](#). 2024.
- [12] **Zheng Q**, Weng Q. The emerging opportunities to improve light pollution measurement. [*Science*](#). 2023. (eLetter commentary; non-peer-reviewed).
- [13] **Zheng Q***, Ha T#, Prishchepov A, et al. The neglected role of abandoned cropland in supporting food security and climate change mitigation. [*Nature Communications*](#). 2023.
 **Highly Cited Paper (Top<1%)**
Media: EurekaAlert AAAS; BNN Bloomberg; Earth.com; Phys.org; Foodnavigator.com; etc.
Cited by: United Nation Convention to Combat Desertification: Synergy Report (2023)
- [14] **Zheng Q**, Seto KC, Zhou Y, You S#, Weng Q*. Nighttime light remote sensing for urban applications: progress, challenges, and prospects. [*ISPRS Journal of Photogrammetry and Remote Sensing*](#). 2023.  **Highly Cited Paper (Top <1%)**;  **Most downloaded paper in ISPRS Journal**
- [15] **Zheng Q***, Weng Q, Zhou Y, et al. Impact of temporal composite on nighttime light (NTL) data and its applications. [*Remote Sensing of Environment*](#). 2022.
- [16] **Zheng Q***, Kelly S, Koh LP, et al. Future land-use competition constrains natural climate solutions. [*Science of the Total Environment*](#). 2022.
- [17] **Zheng Q***, Teo HC, Koh LP. Artificial light at night advances spring phenology in the United States. [*Remote Sensing*](#). 2021
 (Issue cover story; TOP10 notable articles of the season; **Best cover award of 2021**).
- [18] **Zheng Q**, Weng Q, Wang K. Characterizing urban changes of 30 global mega-cities using dense nighttime light time series stacks. [*ISPRS Journal of Photogrammetry and Remote Sensing*](#). 2021.
 **Most popular paper in ISPRS Journal in the past 3 years**
- [19] **Zheng Q**, Weng Q, Wang K. Correcting the Pixel Blooming Effect (PiBE) of DMSP-OLS nighttime light imagery. [*Remote Sensing of Environment*](#). 2020.
- [20] **Zheng Q**, Weng Q, Wang K. Developing a new cross-sensor calibration model for DMSP-OLS and Suomi-NPP VIIRS night-light imageries. [*ISPRS Journal of Photogrammetry and Remote Sensing*](#). 2019.
- [21] **Zheng Q**, Weng Q, Huang L, et al. A new source of multi-spectral high spatial resolution nighttime light imagery—JL1-3B. [*Remote Sensing of Environment*](#). 2018.
- [22] **Zheng Q**, Jiang R, Wang K, et al. Monitoring the trajectory of urban nighttime light hotspots using a Gaussian volume model. [*International Journal of Applied Earth Observation and Geo-information*](#). 2018.
- [23] **Zheng Q***, Wang K. Analysis of the spatio-temporal dynamic of polycentric city using night-time light remote sensing imagery. [*IGARSS 2018 - 2018 IEEE International Geoscience and Remote Sensing Symposium*](#). 2018. (Conference proceeding)
- [24] **Zheng Q**, Zeng Y, Deng J, et al. “Ghost cities” identification using multi-source remote sensing datasets: A case study in Yangtze River Delta. [*Applied Geography*](#). 2017.
- [25] **Zheng Q**, Deng J, Jiang R, et al. Monitoring and assessing “ghost cities” in Northeast China from the view of nighttime light remote sensing data. [*Habitat International*](#). 2017.
- [26] Guo B, Fu Y, Hu D, Liu Y, Chen Y, **Zheng Q**, et al. A novel nighttime light downscaling index approach for generating annual high-definition nighttime light products. [*Information Geography*](#). 2026
- [27] You Z, Fu L, Sun H*, ..., **Zheng Q**, et al. Dependencies of ecological drought on climatic drivers in diverse ecosystems: Implications for water resources management. [*Journal of Environmental*](#)

- [Management](#). 2026.
- [28] Zhong L, ..., **Zheng Q**, et al., Multispectral nighttime light remote sensing: Data, applications, and challenges. [Remote Sensing of Environment](#). 2026
- [29] Liu T, Yu L*, **Zheng Q**, et al. Releasing the Compound Potential of Abandoned Cropland through Recultivation, Afforestation, and Photovoltaic Solutions. [Resources Conservation and Recycling](#). 2026
- [30] Liu Y, Kwan MP*, **Zheng Q**, Ma P. Coupling Fine-grained Nighttime Earth Observation and Optimal Buffer for Mobility-oriented Measures of High-quality Outdoor Nighttime Light Exposure. [Environmental Pollution](#). 2025
- [31] Gao F, Zhao C, Gong D, Yan Z, Zhao H, **Zheng Q**. A Domain Knowledge-Injected Constrained Multi-Objective Evolutionary Algorithm for Analog Integrated Circuit Design. [Circuits, Systems, and Signal Processing](#). 2025.
- [32] He T*, **Zheng Q**, et al. Global urban building height mapping with an improved method using multi open-access remote sensing data. [International Journal of Applied Earth Observation and Geo-information](#). 2025.
- [33] Sun H, Fu L, **Zheng Q**, et al. Explore the relationship between Bowen ratio and evapotranspiration in wetlands using the maximum entropy production model. [Journal of Hydrology](#). 2025.
- [34] He T*, Hu Y, **Zheng Q**, et al. Mapping land- and offshore-based wind turbine in China of 2023 with Sentinel-2 satellite data. [Renewable and Sustainable Energy Reviews](#). 2025.
- [35] Zheng Z, **Zheng Q**, Wu, Z. A logic rule-based continuity profiling scheme for long-time-series extended NTL products. [Remote Sensing of Environment](#). 2025
- [36] Zou C, Chen Z*, **Zheng Q**, et al. Efficacy of UAV nighttime light images in classifying light source type based on light color temperature. [IEEE Transactions on Geoscience and Remote Sensing](#). 2025
- [37] Weng Q, Li Z, ..., **Zheng Q**, et al. How Will AI Transform Urban Observing, Sensing, Imaging, And Mapping? [npj Urban Sustainability](#). 2024
- [38] Guo B, Hu, D, Liu, Y, **Zheng Q**, Atkinson P. A novel nighttime light downscaling index method for generating annual high-definition nighttime light product. [International Journal of Applied Earth Observation and Geo-information](#). 2024
- [39] Chen B, **Zheng Q**, et al. Geo-STO3Net: A deep neural network integrating geographical spatiotemporal information for surface ozone estimation. [IEEE Transactions on Geoscience and Remote Sensing](#). 2023.
- [40] Teo HC, Tan N, **Zheng Q**, et al. Uncertainties in deforestation emission baseline methodologies and implications for carbon markets. [Nature Communications](#). 2023.
- [41] Guo B, Hu D, **Zheng Q**. Potentiality of SDGSAT-1 glimmer imagery to investigate the spatial variability in nighttime-lights. [International Journal of Applied Earth Observation and Geo-information](#). 2023.  **Highly Cited Paper (Top <1%)**
- [42] Teo HC, Koh LP, **Zheng Q**, et al. Large-scale reforestation can increase water yield and reduce drought risk for water-insecure regions in the Asia-Pacific. [Global Change Biology](#). 2022.
- [43] Sreekar, R; Zeng, Y; **Zheng, Q**, et al. Nature-based climate solutions for expanding the global protected area network. [Biological Conservation](#). 2022.
- [44] You S#, **Zheng Q**, Wang K, et al. Identifying the spatiotemporal dynamics of forest ecotourism values with remotely sensed images and social media data: a perspective of public preferences

- [Journal of Cleaner Production](#). 2022.
- [45] Lin Y, Zhang M, Gan M, Huang L, Zhu C, **Zheng Q**, et al. Fine identification of the supply–demand mismatches and matches of urban green space ecosystem services with a spatial filtering tool. [Journal of Cleaner Production](#). 2022.
- [46] Teo HC; Zeng Y; Sarira T; Fung TK; **Zheng Q**, et al. Global urban reforestation can be an important natural climate solution. [Environmental Research Letter](#). 2021.
Cited by: [Lancet Pathfinder Commission 2023](#)
- [47] Ye Y, Huang L, **Zheng Q**, et al. A feasible framework to downscale NPP-VIIRS nighttime light imagery using multi-source spatial variables and geographically weighted regression. [International Journal of Applied Earth Observation and Geoinformation](#). 2021.
- [48] Dong B, **Zheng Q**, Wang K, et al. Identifying and Classifying Shrinking Cities Using Long-Term Continuous Night-Time Light Time Series. [Remote Sensing](#). 2021.
- [49] Ye, Z, **Zheng Q**, Zhou, R, et al. Mapping and Discriminating Rural Settlements Using Gaofen-2 Images and a Fully Convolutional Network. [Sensors](#). 2020. 20(21), 6062.
- [50] You S, **Zheng Q**, Lin Y, et al. Specific Bamboo Forest Extraction and Long-Term Dynamics as Revealed by Landsat Time Series Stacks and Google Earth Engine. [Remote Sensing](#). 2020.
- [51] Ye Y, Deng J, Huang L, **Zheng Q**, et al. Modeling and Prediction of NPP-VIIRS Nighttime Light Imagery Based on Spatiotemporal Statistical Method. [IEEE Transactions on Geoscience and Remote Sensing](#). 2020.
- [52] Xue X, Lin Y, **Zheng Q**, et al. Mapping the fine-scale spatial pattern of artificial light pollution at night in urban environments from the perspective of bird habitats. [Science of the Total Environment](#). 2020.
- [53] Fu, Y, Li, J, Weng, Q, **Zheng Q**, et al. Characterizing the spatial pattern of annual urban growth by using time series Landsat imagery. [Science of the Total Environment](#). 2019.
- [54] Shahtahmassebi AR, Wu C, Blackburn GA, **Zheng Q**, et al. How do modern transportation projects impact on development of impervious surfaces via new urban area and urban intensification? Evidence from Hangzhou Bay Bridge, China. [Land Use Policy](#). 2018.
- [55] Xue X, Yu Z, Zhu S, **Zheng Q**, et al. Delineating Urban Boundaries Using Landsat 8 Multispectral Data and VIIRS Nighttime Light Data. [Remote Sensing](#). 2018.
- [56] Huang L, Wu Y, Zheng Q, **Zheng Q**, et al. Quantifying the Spatiotemporal Dynamics of Industrial Land Uses through Mining Free Access Social Datasets in the Mega Hangzhou Bay Region, China. [Sustainability](#). 2018.
- [57] Zheng Q, Wang K, Huang L, **Zheng Q**, et al. Monitoring the Different Types of Urban Construction Land Expansion (UCLE) in China’s Port City: A Case Study of Ningbo’s Central City. [Sustainability](#). 2018

Book Chapters

- [1] **Zheng Q***, Ha T, Prishchepov A, et al. Supporting climate change mitigation and food security with global abandoned cropland. [Satellites for Field Crops: Advancing Agriculture through Earth Observation](#). 2025
- [2] **Zheng Q***, Weng Q. Contrasting pattern of urban expansion and urban land-use intensification of global megacities using nighttime light time series data (Chapter 7). [Geospatial Approaches to Sustainable Cities](#). 2024.
- [3] Wang K, Ye Z, Jiang R, **Zheng Q**, et al. Data processing handbook and coastal line dynamic

monitoring in *Applications of ZY-02C high-resolution remote sensing data on land resource management* (in Chinese). 2017. CMSP press.

AWARDS & HONORS

Total: 17 awards with US\$ 38K (International (5), National (3), State (2), University (7))

- 2026, Best Group Project (Champion) of 2026 HK Esri Young Scholars Award (Role: Supervisor)
- 2025/2026, Top 20 Reviewer of *Remote Sensing of Environment*
- 2021, *Remote Sensing* 2021 Best Cover Award, MDPI, CHF 100
- 2020, Provincial Excellent Doctoral Graduate (Top 5%), Department of Education of Zhejiang Province
- 2020, Excellent Doctoral Graduate of Zhejiang University, Zhejiang University
- 2019, National PhD Student Award (Top 0.2%), Ministry of Education, US\$ 5,000
- 2019, Outstanding PhD Student Scholarship, Zhejiang University, US\$1,500
- 2019, Student Honors Paper Competition Award (1st place), Remote Sensing Specialty Group of American Association of Geographers, US\$ 500
- 2019, IndianaView Student Scholarship Award, USGS, US\$ 750
- 2019, Academic Award for Outstanding Doctoral Candidate (Top 100 PhD student, university-wide), Zhejiang University
- 2018, Visiting PhD Student Fellowship, China Scholarship Council, US\$ 25,400
- 2018, Graduate Student Travel Award, Zhejiang University, US\$ 1,500
- 2017, Outstanding PhD student scholarship, Zhejiang University, US\$ 1,500
- 2017, Renchao Wang Scholarship (1st place), Zhejiang University, US\$ 1,000
- 2016, Outstanding PhD Student, Zhejiang University
- 2015, TOP 100 Best Undergraduate Thesis, Zhejiang University

GRANTS

Total: ~ HK\$ 4.5M (~US\$ 545K) with PI (12) and Co-I (2)

- [1] **PI.** GeoAI-driven Projection of Urban Afforestation and Ecosystem Benefit Assessment in the Greater Bay Area. 1+1+1 CUHK–CUHK(SZ)–GDSTC Joint Collaboration Fund, The Chinese University of Hong Kong. HK\$ 150,000 (US\$ 19,000). 2026-2026.
- [2] **PI.** AI-powered Geospatial Science E-learning & Practicing Platform Tailored for Social Science Students (GeoLEAP). Teaching Development and Language Enhancement Grant (TDLEG) 2025-28, The Chinese University of Hong Kong. HKD 367,000 (US\$ 47,000). 2026-2028.
- [3] **PI.** ESPA-HK2050: Assessing Ecosystem Services Provision and Accessibility of Hong Kong's Blue-green Spaces towards 2050. Environment Conservation Fund, Environment and Ecology Bureau of Hong Kong. HK\$ 371,000 (US\$48,000). 2026-2028
- [4] **PI.** [Food Security in Global South under Future Socioeconomic & Climate Changes](#). Worldwide Universities Network – Research Development Fund 2025. GBP 20,000 (US\$ 27,000). 2026-2027.
- [5] **PI.** Seamless daily VIIRS nighttime light data reconstruction and change detection. Young Scientists Fund, National Natural Science Foundation of China. RMB 300,000 (US\$ 41,400). 2026-2028
- [6] **PI.** Trade-offs and synergies of the climate benefit and co-benefits of reforestation in China towards 2100. Direct Grant, The Chinese University of Hong Kong. HK\$ 100,000 (US\$ 13,000).

2025-2026

- [7] **PI.** Spatially Explicit Modeling of Reforestation Co-benefits with Geospatial AI Approaches. Strategic Partnership Award for Research Collaboration, The Chinese University of Hong Kong. HK\$ 150,000 (US\$ 19,000). 2025-2026.
- [8] **PI:** Urban Afforestation in Greater Bay Area towards 2100: Potentials and Uncertainties. General Research Fund, Research Grants Council of Hong Kong. HK\$ 730,000 (US\$93,000). 2025-2028
- [9] **PI:** Understanding the urbanizing planet with earth observations. Start-up Fund for new faculty member, The Chinese University of Hong Kong. HK\$ 1,500,000 (US\$ 200,000). 2024-2027
- [10] **PI:** Supporting both food security and climate change mitigation with abandoned cropland: potential and trade-offs. Start-up Fund for RAP under the Strategic Hiring Scheme, the Hong Kong Polytechnic University, Hong Kong. HK\$ 250,000 (US\$32,000). 2023-2024.
- [11] **PI:** Building height estimation with context information. Alibaba DAMO Academy – AI Earth Joint Research & Innovation Programme. 2023-2024
- [12] **PI:** Exploring the spatiotemporal pattern of polycentric cities based on night-time light remote sensing data, Zhejiang University, RMB 40,000 (US\$ 7,000). 2019-2020
- [13] **Co-I:** Use of Geo-Artificial Intelligence to Assess the Ecological Impacts of Artificial Light Intrusion in Natural Ecosystems, Microsoft, 2019-2020, US\$ 15,000 (**PI:** Dr. Qihao Weng)
- [14] **Co-I:** Coupling urban spatial structure and urban flood assessment based on multi-source remote sensing data, Zhejiang University, 2017-2018, US\$ 20,000 (**PI:** Dr. Ke Wang)
- [15] **Core member:** Nature for Climate Research Programme (N4CRP)-Ensuring the Credibility and Integrity of the Global Marketplace for Nature-based Climate Solutions, National Research Foundation (Singapore), US\$11.0M (**PI:** Dr. Lian Pin Koh)
- [16] **Core member:** Spatial Optimization and Allocation of Rural Agriculture Production-Living-Ecology Space under Rural Revitalization Initiative, Natural Science Foundation of Zhejiang Province, 2019-2021.

TEACHING EXPERIENCE

Lecture & Lab Tutor

- [1] **GRMD2105 Introduction to GIS** (undergraduate). The Chinese University of Hong Kong. 2024-Present
- [2] **GRMD2104 Remote Sensing of Environment** (undergraduate). The Chinese University of Hong Kong. 2024-2025
- [3] **GRMD3106 Advanced GIS** (undergraduate). The Chinese University of Hong Kong. 2024.
- [4] **GRMD3109 Geospatial Programming and Data Mining** (undergraduate). The Chinese University of Hong Kong. 2026-Present
- [5] **GRMD1403 Resources, Society and Environment** (undergraduate). The Chinese University of Hong Kong. 2024
- [6] **GRMD4503 Smart City Policies and Governance** (undergraduate). The Chinese University of Hong Kong. 2024
- [7] **GISM5102 GIS-T and Logistical Information Management** (master). The Chinese University of Hong Kong. 2025-Present
- [8] **NASA Black Marble VIIRS Nighttime Light Image Processing.** Online Tutorial Series. (> 10K views; see [Link](#))

Guest Lecture

- [1] Remote Sensing of Urban Environment (Course LSGI 4214 for senior undergraduates). The Hong Kong Polytechnic University. Apr. 4, 2023 (Invited lecture).
- [2] Nighttime Light Remote Sensing for Urban Observation (Course LSGI536 for master students). The Hong Kong Polytechnic University. Mar. 30, 2023 (Invited lecture).
- [3] Remote Sensing of Urban Landscape (Course GE4214 for senior undergraduates). National University of Singapore. Oct. 18, 2022 (Invited lecture).
- [4] Climate Change - Potential of Nature-based Climate Solutions. Civil Service College Singapore & Ministry of Trade and Industry of Singapore. Sept. 7, 2022 (Invited lecture).
- [5] Change detection with remote sensing data: theory, method, and applications. National University of Singapore, Sept. 3, 2021 (Invited lecture).

MENTORSHIP

Postdoc Fellow

- [1] Dr. Xia Liao (2025.6-Present; PhD, Chinese Academy of Sciences).

PhD/MPhil Students

- [1] Te Mu (2024.8-Present; MSc, Zhejiang University).
First-author publications: [TGRS](#) (2025); [RSE](#) (2026);
- [2] Yifei Zhao (2025.8-Present; MSc, Beijing Normal University).
First-author publications: [Urban Forestry & Urban Greening](#) (2026)
- [3] Hanyue Luo (2025.8-Present; MSc, Shanghai Jiaotong University).
First-author publications: [Urban Forestry & Urban Greening](#) (2026)
- [4] Yu Gong (2025.8-Present; MSc, Wuhan University).

Master Student

- [1] Zhenyu Wang (2023-2024; PolyU) -> Research Assistant in PolyU HK.
- [2] Yang Qu (2023-2024; PolyU) -> High School Geography Teacher in Shanghai, China.
- [3] Mengni Xia (2023-2025; PolyU)

Research Assistants (RA) / Final Year Students (FYS)

- [1] Yiu Yu Ming (2025-2026, FYS).
Achievements: Lam Chiu Ying Final Year Thesis Prize (\$3,000)
- [2] Mianxi Wu (2024-2025, FYS) -> Master student, The University of Hong Kong
Achievements: First class honor; GRM Undergraduate International Conference Award; Poster presentation at GIScience 2025 (New Zealand); Candidate of CUHK Capstone Project Presentation Competition; Tam Sai Wing Scholarship for Final Year Thesis.
- [3] Yip Ming Chan (2024-2025, FYS)
- [4] Te Mu (2023-2024, RA) -> PhD student, The Chinese University of Hong Kong
- [5] Tim Ha (2021-2022, RA) -> Teacher in Geography, Geschwister-Scholl-Gymnasium Waldkirch
- [6] Nicole Chung (2021-2022, RA) -> Undergraduate student NUS-Yale college

Visiting Students

- [1] Runjia Yang (2025.9-2025.12): PhD student at Zhejiang University

First-author publications: [Communications Earth & Environment](#) (2026)

- [2] Dr. Xinyu Zheng (2025.3-2025.9): Lecturer at Zhejiang A&F University
- [3] Yifei Zhao (2024.9-2025.1): MSc student at Beijing Normal University

Referrer for students

Jia Hu (admitted to Iowa State Univ.); Ke Wang (admitted to Columbia Univ.); Qingwei Zhong (admitted to NTNU); Mianxi Wu (admitted to HKU); Ruishan Shen (admitted to NUS); Steve Teo (admitted to LMU Munich)

INVITED & KEYNOTE TALKS

- [1] **Zheng Q.** Uncertainties and Challenges in Daily Nighttime Light Time Series Data. *The 9th Youth Scientist Forum of Earth Sciences*, May 2024, Xiamen, China (**Keynote Speech**)
- [2] **Zheng Q.** Nighttime Light Remote Sensing for Urban Applications: Opportunities and Challenges. Wuhan University. Oct. 2023.
- [3] **Zheng Q.** Understanding the Urbanizing Planet with Nighttime Light Imagery. Northeastern University, China, May 22, 2023.
- [4] **Zheng Q, Weng Q.** Characterizing urban land changes of global megacities using nighttime light time series. *Symposium 2021 of Group on Earth Observations*, June 2021.
- [5] **Zheng Q.** Earth Observation at Night: Nighttime Light Images Open Up New Applications. Indiana State University, USA. Sept. 2019.
- [6] **Zheng Q, Wang K.** Analysis of the spatio-temporal dynamic of polycentric city using night-time light remote sensing imagery. *IGARSS 2018 - 2018 IEEE International Geoscience and Remote Sensing Symposium*, Valencia, Spain. July 2018.

SCIENCE LEADERSHIP & SERVICES

Editorship

- [1] **Editor** (2024-present), [Communications Earth & Environment](#). (Q1, 11/253; IF=8.9)
- [2] **Editorial Board Member** (2025-present), [Remote Sensing of Environment](#). (Q1, 3/65, IF=11.4)
- [3] **Deputy Director (领导小组副主任) of Young Editorial Board Member** (2025-present), Geographical Science 地理科学(in Chinese). (Chinese Core Journals)
- [4] **Young Editor** (2025-present), The Innovation Informatics.
- [5] **Editor** (2023-present), [Frontier of Remote Sensing](#). (Q2, 13/36; IF=3.4)
- [6] **Editorial Advisory Board** (2022-2025), [ISPRS Journal of Photogrammetry and Remote Sensing](#). (Q1, 1/65; IF=12.2)
- [7] **Guest Editor** (2021-2022, 2024-2026). [Remote Sensing](#). (Q1, 34/253; IF=4.2)
Special Issue Vol I: Nighttime Light Remote Sensing Products for Urban Applications.
Special Issue Vol II: Nighttime Light Remote Sensing Products for Sustainable Development Goals (SDGs).
Special Issue: Remote Sensing Imagery for Mapping Economic Activities.

Committee member

- [1] **Admissions and School Partnership Committee** (Role: Mainland admission coordinator). Department of Geography and Resource Management. 2025-Present
- [2] **Judging Panel**. ESRI Young Scholar Award 2025, 2026.

- [3] **Executive Committee** (Role: Director of Publicity). IEEE GRSS Hong Kong Chapter. 2024-2027
 [4] **Scientific Committee**. IEEE GRSS IGARSS 2025. 2024-2025

Funding agency reviewer

- [1] Proposal reviewer. Israel Science Foundation, Israel. 2024
 [2] Proposal reviewer. Belgian Earth Observation Programme, Belgium. 2024, 2025

Journal reviewer (Total: 287; WOS JCR Q1: 255)

Remote Sensing of Environment (39)	Nature Cities (7)
PNAS (2)	Nature Ecology & Evolution (1)
Nature Food (1)	Nature Communications (3)
ISPRS J Photogramm Remote Sens (31)	Int J Appl Earth Obs Geoinf. (7)
Sustainable Cities and Society (6)	Applied Energy (1)
Resources, Conservation & Recycling (2)	Trends in Ecology and Evolution (1)
IEEE TGRS (15)	Journal of Cleaner Production (2)
Science of the Total Environment (4)	Earth System Science Data (5)
Cities (1)	Environmental Research Letters (6)
Remote Sensing (6)	IEEE J-STARS (45)
Int J Digit Earth (11)	Remote Sensing Applications (4)
Building and Environment (5)	Remote Sensing Letter (1)
GIScience & Remote Sensing (11)	Journal of Environmental Management (6)
Annual of GIS (2)	Journal of Spatial Science (1)
Envir Res: Infrastructure and Sustainability (1)	IEEE TGRS Letter (3)
Urban Informatics (1)	Energy Efficiency (1)
Scientific Report (2)	Geocarto International (2)
European Journal of Remote Sensing (2)	Computers and Electronics in Agriculture (2)
IEEE Access (7)	Applied Geography (13)
Environmental Research (5)	International Journal of Remote Sensing (5)
Journal of Cleaner Production (2)	Environment Pollution (1)
Geo-Spatial Information Science (3)	Renewable and Sustainable Energy Reviews (1)
PNAS-Nexus (2)	Theoretical and Applied Climatology (1)
Environmental Impact Assessment Review (3)	Journal of Remote Sensing (2)
Global Environmental Change (1)	Computers, Environment and Urban Systems (1)
Energy (1)	

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