

## Dr. Qiming Zheng (Jimmy)

Centre for Nature-based Climate Solutions, National University of Singapore

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Links: [ResearchGate](#) / [Google Scholar](#) / [Personal homepage](#)

### RESEARCH INTERESTS

Remote sensing of urban environment; Global environmental and climate change; Climate change mitigation with nature-based solutions; Remote sensing image processing techniques and applications

### APPOINTMENTS

- 2023-           **Research Assistant Professor**, Department of Land Surveying and Geo-Informatics, The Hong Kong Polytechnic University
- 2020-2022   **Postdoctoral Research Fellow**, Centre for Nature-based Climate Solutions, National University of Singapore (Advisor: Dr. Lian Pin Koh)

### EDUCATION

- 2015-2020   **PhD** in Remote Sensing and Geographic Information System, Zhejiang University
- 2018-2019   **Visiting PhD Student**, Indiana State University (Advisor: Dr. Qihao Weng)
- 2011-2015   **BS** in Environment and Resources Sciences, Zhejiang University

### SELECTED PUBLICATIONS

\* **Corresponding author; Total: 26 published articles; Google Scholar citations: 558, h-index=12**

- [1] **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.
- [2] **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.
- [3] **Zheng Q**, Weng Q, Wang K. Correcting the Pixel Blooming Effect (PiBE) of DMSP-OLS nighttime light imagery. *Remote Sensing of Environment*. 2020.
- [4] **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.
- [5] **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.

### KEY AWARDS

**Total: 14 awards with US\$ 38K (International (2), National (2), State (2), University (8))**

- 2021, *Remote Sensing* 2021 Best Cover Award, MDPI, CHF 100
- 2020, Provincial Excellent Doctoral Graduate, Department of Education of Zhejiang Province
- 2019, National PhD Student Award of China, US\$ 5,000
- 2019, Student Honors Paper Competition Award (1<sup>st</sup> place), Remote Sensing Specialty Group of American Association of Geographers, US\$ 500
- 2019, IndianaView Student Scholarship Award, IndianaView Consortium (USGS), US\$ 750

- 2019, Academic Award for Outstanding Doctoral Candidate (Top 100), Zhejiang University
- 2018, Visiting PhD Student Fellowship, China Scholarship Council, US\$ 25,400

## KEY GRANTS

**Total: US\$ 42K with PI (1) and Co-PI (2)**

- [1] **Work package leader.** Understanding the Anthropocene with smart platform. The Ministry of Education (MOE), Social Science Research, Singapore. US\$5M (**Co-PI:** Dr. Lian Pin Koh), 2022-2025.
- [2] **Work package leader.** Decarbonization and Nature-Based Solutions Research Scope and Rationale. Resort World Sentosa, Singapore. US\$ 1M (**Co-PI:** Dr. Lian Pin Koh), 2022-2024.
- [3] **Work package leader.** Digital Climate - Building Platform and Solutions for Urban Heat Risk Mitigation and Decarbonization. The Ministry of Education (MOE) Academic Research Fund, Singapore. US\$ 200k (**Co-PI:** Dr. Lian Pin Koh), 2022-2025.
- [4] **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\$1.5M (**PI:** Dr. Lian Pin Koh)
- [5] **PI:** Exploring the spatio-temporal pattern of polycentric cities based on night-time light remote sensing data, Zhejiang University, US\$ 7,000, 2019-2020

## SUPERVISING & TEACHING

### Academic session & Lecturing

- [1] Remote Sensing of Urban Landscape (Course GE4214 for senior undergraduates). National University of Singapore. Oct. 18, 2022 (Invited lecture).
- [2] Climate Change - Potential of Nature-based Climate Solutions. Civil Service College Singapore & Ministry of Trade and Industry of Singapore. Sept. 7, 2022 (Invited lecture).
- [3] Change detection with remote sensing data: theory, method and applications. National University of Singapore, Sept. 3, 2021 (Teaching session).
- [4] Geographic Information Systems and Agricultural Modernization, No: 1440001001: Zhejiang University, winter semester, 2019 (Guest Lecturer & Teaching Assistant).

### Supervising

- [1] Supervisor of student intern/research associate/research assistant (Total: 4)
- [2] Assistant instructor of undergraduate/graduate students (Total: 9)

## PROFESSIONAL ACTIVITIES

### Editorship

- [1] **Editorial Advisory Board member,** [\*ISPRS Journal of Photogrammetry and Remote Sensing\*](#). 2022-2025
- [2] **Guest editor.** [\*Remote Sensing\*](#). Special Issue: Remote Sensing Imagery For Mapping Economic Activities. 2021-2022

### Journal reviewer (Total: 115)

Remote Sensing of Environment, ISPRS Journal of Photogrammetry and Remote Sensing, IEEE Transactions on Geoscience and Remote Sensing, Earth System Science Data, International Journal of Applied Earth Observation and Geoinformation, PNAS-Nexus, Building and Environment, GIScience & Remote Sensing, Environmental Research Letters, Journal of Cleaner Production, etc.