Chao Zhang



Gender: Male Date of Birth: September 1, 1990

Place of birth: Zaozhuang City, Shandong Province, China

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Research Interests and Skills

Interests: Agricultural ecosystem monitoring and modeling, land-atmosphere interaction

Skills: Essential programming skills (Python, Matlab, C++) Proficient English writing skills for peer-reviewed publications

Demonstrated experience of working with diverse collaborators in a group.

Work Experience

Position	Institute/Company	Period
Postdoc research fellow	National University of Singapore, Singapore	2023.12-now
Engineer	Jiangsu Power Design Institute Co., LTD.,	2016.07-2020.07
Engineer	Nanjing, China	

Education

Degree/Major	University/Institution	Period
PhD/Cartography and GIS	Institute of Geographic Sciences and Natural Resources Research, CAS, China	2020.09-2023.06
MA/Geodesy and survey engineering	Central South University, China	2013.09-2016.06
BA/Surveying and mapping	Central South University, China	2009.09-2013.06

Publications

- [1] **Zhang**, C., Dong, J.*, Leng, G., Doughty, R., Zhang, K., Han, S., Zhang, G., Zhang, X., Ge, Q.*, **2023**. Attenuated cooling effects with increasing water-saving irrigation: Satellite evidence from Xinjiang, China. *Agricultural and Forest Meteorology*. 333, 109397.
- [2] **Zhang, C.**, Ge, Q.*, Dong, J.*, Zhang, X., Li, Y., Han, S., **2023**. Characterizing spatial, diurnal, and seasonal patterns of agricultural irrigation expansion-induced cooling in Northwest China from 2000 to 2020. *Agricultural and Forest Meteorology*. 330, 109304.
- [3] **Zhang,** C., Dong, J.*, Xie, Y., Zhang, X., Ge, Q.*, **2022**. Mapping irrigated croplands in China using a synergetic training sample generating method, machine learning classifier, and Google Earth Engine. *International Journal of Applied Earth Observation and Geoinformation*. 112, 102888.
- [4] **Zhang, C.**, Dong, J., Ge, Q.*, **2022**. Mapping 20 years of irrigated croplands in China using

- MODIS and statistics and existing irrigation products. Scientific Data. 9, 407.
- [5] **Zhang, C.**, Dong, J.*, Ge, Q.*, **2022**. IrriMap_CN: Annual irrigation maps across China in 2000–2019 based on satellite observations, environmental variables, and machine learning. *Remote Sensing of Environment*. 280, 113184.
- [6] **Zhang, C.**, Dong, J., Zuo, L., Ge, Q.*, **2022**. Tracking spatiotemporal dynamics of irrigated croplands in China from 2000 to 2019 through the synergy of remote sensing, statistics, and historical irrigation datasets. *Agricultural Water Management*. 263, 107458-107470.
- [7] **Zhang, C.**, Dong, J.*, Ge, Q., **2022**. Quantifying the accuracies of six 30-m cropland datasets over China: A comparison and evaluation analysis. *Computers and Electronics in Agriculture*. 197, 106946.
- [8] Cui, Y., Dong, J., **Zhang, C.**, et al. (2024). Validation and refinement of cropland map in southwestern China by harnessing ten contemporary datasets. *Scientific Data*, 11, 671.
- [9] Cui, Y., Liu, R., Li, Z., **Zhang, C.**, et al. (2024). Decoding the inconsistency of six cropland maps in China. *The Crop Journal*, 12, 281-294.

Peer Reviewer For

Agricultural and Forest Meteorology, <u>Biogeosciences</u>, Science Bulletin, Agriculture, Atmosphere, Remote Sensing

Honors & Awards

- 2023, Outstanding Graduate Scholarship from IGSNRR, CAS.
- 2023, Outstanding students from CAS.
- 2022, First prize of President Scholarship from IGSNRR, CAS.
- 2021, Second prize of President Scholarship from IGSNRR, CAS.
- 2016, Excellent graduate of Hunan Province.
- 2015, First prize in "Zhong Haida" Scholarship at Central South University.
- 2014, First prize in "Chen Guoda" Scholarship at Central South University.

Membership

2024, 2023: Member of the American Geophysical Union.