

# Hongzhang XU

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## EDUCATION

University of Waterloo	Waterloo, Ontario, Canada
Ph.D., Geography.	December 2024 (expected)
• Research Interests: Remote sensing image processing; Machine Learning & Deep Learning; Multi-Source Data Fusion; Quantitative Remote Sensing.	
Wuhan University	Wuhan, Hubei, China
M.Sc.Eng., Photogrammetry and Remote Sensing.	June 2020
B.Sc.Eng., Geomatics Engineering.	June 2017

## PUBLICATIONS

- Yuan, Q., Shen, H., Li, T., Li, Z., Li, S., Jiang, Y., **Xu, H.**, Tan, W., Yang, Q., Wang, J., Gao J., & Zhang L. (2020). Deep Learning in Environmental Remote Sensing: Achievements and Challenges. *Remote Sensing of Environment*, 241, 111716.
- Yuan, Q., **Xu, H.**, Li, T., Shen, H., & Zhang, L. (2020). Estimating surface soil moisture from satellite observations using a generalized regression neural network trained on sparse ground-based measurements in the continental US. *Journal of Hydrology*, 580, 124351.
- Xu, H.**, Yuan, Q., Li, T., Shen, H., Zhang, L., & Jiang, H. (2018). Quality Improvement of Satellite Soil Moisture Products by Fusing with In-Situ Measurements and GNSS-R Estimates in the Western Continental US. *Remote Sensing*, 10(9), 1351.

## CONFERENCE PRESENTATIONS

- Xu, H.**, Yuan, Q., Li, T., Shen, H., & Zhang, L. Estimating Surface Soil Moisture from Satellite Observations Using Machine Learning Trained on In-Situ Measurements in the Continental US. **Oral** presentation delivered at the IEEE International Geoscience and Remote Sensing Symposium, Yokohama, Japan, July 28–August 3, 2019.
- Yuan, Q., **Xu, H.**, Li, T., Shen, H., & Zhang, L. Quality Improvement of the Satellite Soil Moisture Products by Fusing In Situ and GNSS-R Observation. **Poster** presentation delivered at the AGU Fall Meeting, New Orleans, LA, December 11–15, 2017.

## GRANTS AND HONORS

Outstanding Graduate Student	2018, 2019, 2020
Li Qinghai Scholarship, School of Geodesy and Geomatics, Wuhan University	2015, 2020
Second Prize of Academic Scholarship, Wuhan University	2014, 2016, 2019
National Scholarship for Master Students, Ministry of Education, China	2018
First Prize of Academic Scholarship, Wuhan University	2015, 2018
First Prize of Graduate Freshman Scholarship, Wuhan University	2017
President Wang Xing Gong Scholarship, Wuhan University	2014
Xi Guang Scholarship, Wuhan University	2013