



The [International GEO-Innovation Center](#) at UMD is organizing the [2nd International Quantitative Remote Sensing Summer School](#) from June 28 to July 7, in cooperation with the School of Remote Sensing and Information Engineering of Wuhan University, the Quantitative Remote Sensing Research Center of Wuhan University and the Department of Geography at the University of Hong Kong.

The free virtual summer school will feature talks by global experts in remote sensing. The talks will focus on quantitative remote sensing theories and methods, recent advances in research and applications covering a range of topics including atmospheric remote sensing, land cover mapping, agricultural monitoring, remote sensing of fires, vegetation monitoring, hydrological remote sensing and big data processing.

When: June 28 - July 7, 2023

Time: 8:00 – 10:35 a.m. EDT (with some talks at other times)

Please register [here](#) to get details for joining the talks.

Preferred Background

- Graduate students and early-career researchers in geospatial sciences /remote sensing or with related research experience.
- Undergraduate students who have completed coursework related to remote sensing or have familiarity with satellite data and image processing.
- Interest in state-of-art quantitative remote sensing techniques.



US Eastern Time		Topic	Speaker(s)	Affiliation
6/28 WED	8:00-8:15	Opening Ceremony	Representatives from WHU/UMD/HKU	
	8:15-9:30	Remote sensing of global snow	Steve Hancock	University of Edinburgh
	9:35-10:50	Atmospheric Correction of Optical Remote Sensing Data	Yong Xue	China University of Mining and Technology
	21:00-22:10	Soil moisture microwave remote sensing	Jiancheng Shi	National Space Science Center, CAS
6/29 THU	8:00-9:15	Remote sensing of global vegetation resources in a changing world	Rasmus Fensholt	University of Copenhagen
	9:20-10:35	Advanced Deep Learning Frameworks for Remote Sensing: Gaps and Opportunities	Yiqun Xie	University of Maryland
	21:00-22:10	Vegetation remote sensing and terrestrial carbon cycle estimation	Jingming Chen	University of Toronto
6/30 FRI	3:20-4:30	Passive/active microwave remote sensing and vegetation monitoring from VOD indices	Jean-Pierre Wigneron	INRA, France
	8:00-9:15	Time-series remote sensing data processing and applications	Xiaolin Zhu	Hong Kong Polytechnic University
	9:20-10:35	Estimation of surface downward shortwave radiation	Dongdong Wang	University of Maryland
7/1 SAT	8:00-9:15	Urban environmental change and its implications	Yuyu Zhou	University of Hong Kong
	9:20-10:35	The Essential Role of Vertical Profile Observations of Atmospheric Composition in China	Meng Gao	Hong Kong Baptist University
7/2 SUN	8:00-9:15	Remote Sensing Applications in climate risk assessment and climate adaptation of agricultural system	Peng Zhu	University of Hong Kong
	21:00-22:10	Vegetation index measures, theory, applications and controversies	Alfredo Huete	University of Technology Sydney
7/3 MON	8:00-9:15	Aerosol Characterization with Multiwavelength Raman Lidar: Methods and Examples	Detlef Mueller	Wuhan University
	9:20-10:35	Remote Sensing of Frozen Ground	Lin Liu	Chinese University of Hong Kong
7/4 TUE	8:00-9:15	Analysis of remote sensing signals with the DART radiative transfer model	Jean-Philippe Gastellu-Etchegorry	Université Toulouse III - Paul Sabatier
	9:20-10:35	Landsat and Sentinel-2 analysis ready data	Hankui Zhang	South Dakota State University
	21:00-22:10	Incorporating global 3D canopy structure for terrestrial ecosystem monitoring- a user guide of GEDI	Hao Tang	National University of Singapore
7/5 WED	9:20-10:35	Remote Sensing of Fire	Mike Humber	University of Maryland
7/6 THU	3:20-4:30	Monitoring Vegetation in a Changing World	Aleixandre Verger	Spanish National Research Council
	8:00-9:15	Integrating radar and optical data for monitoring urban development	Hongsheng Zhang	University of Hong Kong
	9:20-10:35	Agriculture monitoring with remote sensing	Sergii Skakun	University of Maryland
7/7 FRI	8:00-9:15	Deep learning for remote sensing	Nikolai Kalischek	ETH Zurich
	9:20-10:35	GLAD land cover products	Sasha Tyukavina	University of Maryland