

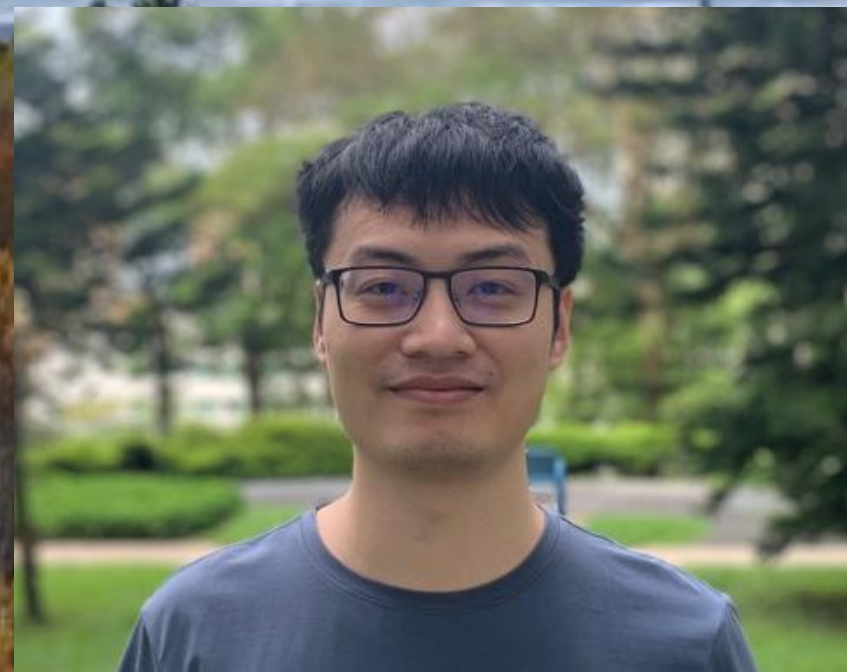
Climate change impacts on global photosynthesis: perspectives from cross scale observations

Date	21 Oct. (Fri.)	
Time	16:00 (UTC+8)	
Venue	Zoom only	

You can also email us to require the Zoom link
 (check SBS website → NEWS & EVENTS)

Abstract: Vegetation photosynthesis is the largest carbon flux in the global carbon cycle, removing CO₂ from the atmosphere and contributing to climate change mitigation. Meanwhile, climate change, characterized by elevated CO₂ concentration, rising temperature, and shifted rainfall, has caused considerable changes in global photosynthesis, though the magnitude - and even sometimes the direction - of the change are uncertain. In this talk, I will introduce our recent works in quantifying the response of vegetation photosynthesis to climatic drivers over short and long terms, using multiple observations across spatial scales (i.e., leaf traits, eddy covariance, remote sensing, atmospheric CO₂ concentration), as well as advanced process-based models and ecological theories.

All are welcome!



Xiangzhong (Remi) Luo is an Assistant Professor at National University of Singapore (NUS), and a recipient of the NUS Presidential Young Professorship. Prior to joining NUS, he was a postdoctoral research fellow at University of California - Berkeley and Lawrence Berkeley National Laboratory in the U.S. He got a PhD in physical geography from University of Toronto in Canada in 2018, MSc in Peking University and BSc in Wuhan University, China. His research centres on examining the impacts of climate variability and the long-term trend on terrestrial ecosystems, particularly the terrestrial carbon cycle and water cycle.