

## CV of Jin Wu

### 1. Academic Qualification

- PH.D. in Ecology and Evolutionary Biology, University of Arizona (2009.08-2015.12)
- Equivalent M.S. in Remote Sensing, Beijing Normal University (2007.09-2009.07)
- B.S. in Geoinformation Science, Wuhan University (2003.09-2007.07)

### 2. Positions Held (Chronological Order)

- Assistant Professor, School of Biological Sciences, University of Hong Kong (2009.01-present)
- Goldhaber Distinguished Fellow, Department of Environmental and Climate Sciences, Brookhaven National Laboratory (2017.04-2018.12)
- Postdoctoral Researcher, Department of Environmental and Climate Sciences, Brookhaven National Laboratory (2015.11-2017.03)

### 3. Research Areas Related to Ocean Science, Technology and/or Policy

- Jin Wu is a broadly trained ecologist and remote sensing scientist. His research is focused on harnessing cutting-edge satellite technology and wireless sensor technology to study the structure, composition and function of Mangrove ecosystems as well as the concentrations and biogeography of algae and its connection with water quality.

### 4. Funded Research Projects as Principal Investigator (PI), Co-PI or Co-Investigator (Co-I) over the Past 5 Years (Maximum 5 Projects):

Since joining HKU in January of 2019, Jin Wu has established a “Global Ecology and Remote Sensing Lab”, which now includes a PI (Jin Wu), 3 postdocs, 2 PhD students, 2 research assistants, and multiple undergraduates. At present, he is in charge of the following projects:

- PI, NSFC-Excellent Young Scholar Award, “Terrestrial ecosystem ecology and multi-scale hyperspectral remote sensing”, (RMB 1,300,000; 01/01/20-31/12/22).
- PI, National Geographic Society Asia Lab Fellowship, “From plant traits to forest health monitoring: a novel integration of multi-sources satellite remote sensing, AI, and process-based models”, (US\$ 50,000; 01/11/19-31/10/20).

- PI, University Grant Council 42<sup>nd</sup> PDF scheme, “Monitoring plant photosynthesis from space: an integration of multi-scale SIF measurements and process-based models”, (HK\$ 320,000; 01/09/19-31/08/21).
- PI, HKU Seed Fund for Basic Research, “Scale-dependent mechanisms in regulating GPP-SIF relationships: from leaves to ecosystems”, (HK\$ 150,000; 01/09/19-31/08/20).

## 5. Five Key Publications over the Past 5 Years (\*Corresponding author)

- **Wu J\***, Albert LP, Lopes AP, Restrepo-Coupe N, Hayek M, Wiedemann KT, Guan K, Stark SC, Christoffersen B, Prohaska N, Tavares JV, Marostica S, Kobayashi H, Ferreira ML, Campos KS, da Silva R, Brando PM, Dye DG, Huxman TE, Huete AR, Nelson BW, and Saleska SR\*. (2016). Leaf development and demography explains photosynthetic seasonality in Amazon evergreen forests. *Science*, 351, 972-976.
- **Wu J\***, Serbin SP, Xu X, Chen M, Meng R, Saleska SR, and Rogers A. (2017). Phenology of leaf quality and its within-canopy variation are essential to model photosynthetic seasonality in tropical evergreen forests. *Global Change Biology*, 23, 4814-4827.
- **Wu J\***, Kobayashi H, Stark SC, Meng R, Guan K, Tran NN, Gao S, Yang W, Restrepo-Coupe N, Miura T, Oliveira RC, Rogers A, Dye DG, Nelson BW, Serbin S, Huete AR, and Saleska SR. (2018). Biological processes dominate seasonality of remotely sensed canopy greenness in an Amazon evergreen forest. *New Phytologist*, 217, 1507-1520.
- **Wu J\***, Rogers A, Albert LP, Ely K, Prohaska N, Wolfe BT, Oliveira RC, Saleska SR, and Serbin SP. (2019). Leaf reflectance spectroscopy captures variation in carboxylation capacity across species, canopy environment and leaf age in lowland moist tropical forests. *New Phytologist*, 224, 663-674.
- **Wu J\***, Serbin SP, Ely KS, Wolfe BT, Dickman LT, Grossiord C, Michaletz ST, Collins AD, Detto M, McDowell NG, Wright SJ, and Rogers A. (2019). The response of stomatal conductance to seasonal drought in tropical forests. *Global Change Biology*, doi.org/10.1111/gcb.14820.

## 6. Awards and Recognition

- Excellent Young Scholar Award of National Natural Science Foundation of China (2019)  
*\*Successful rate of 25/297; highest honors for early career scientists in Hong Kong and Macau*
- Asia Lab Fellow, National Geographic Society (2019)  
*\*Only four labs across Asia were awarded*
- Best Young Investigator Paper Award of the Sino-Ecologists Association Overseas (2018)
- Goldhaber Distinguished Fellowship, Brookhaven National Laboratory (2017)  
*\* Highest honors for postdoctoral researchers at Brookhaven National Laboratory*
- Galileo Circle Scholar, University of Arizona (2015)  
*\* The finest graduate students of Faculty of Science were awarded*
- NASA Earth and Space Science Fellowship (2014)  
*\* Successful rate of 54/410 across U.S.; one of the most prestigious awards for graduate students*