WANG JIFEI

Email: jifeiwang@u.nus.edu | Tel: +65 86962684| Website: wang-jifei.github.io

Education Background

National University of Singapore	**08/2020 - 06/2022 (Expected)**

- **College:** Faculty of Arts and Social Science
- **Major:** Geography, Master of Social Science (Research-based)

Wuhan University	**09/2016 - 06/2020**

- **College:** School of Remote Sensing and Information Engineering
- **Major:** Remote Sensing Science and Technology, Bachelor of Engineering
- **Average Score:** 3.65/4.0(86.25/100)

Research Experiences

Graduate	**08/2020-present**
Investigating the effects on urban composition and configuration on LST variation	09/2020-present
LULC classification; 3D morphology extraction; Human mobility data analysis; Spatiotemporal LST analysis	
Tropic Tree Species Identification Project (collaborated with NTU)	03/2021-04/2021
Individual tree identification in tropic forest; 3D point cloud segmentation and classification	
Group project: Spatial Big Data and Analytics	11/2020-12/2020
Air pollution and UHI dynamics during COVID-19 in Wuhan and NYC	
Group Project: Spatial Dynamic Environments	09/2020-11/2020
Restoration of Critically Endangered Swamp Cypress Trees in Laos (Ecological data analysis; Habitat modelling; Nursery project design)	

Undergraduate	**09/2016-06/2020**
Bachelor thesis	01/2020-06/2020
Building Extraction from High-resolution Satellite Images based on Deep Learning Method (Deep U-Net)	
Monitoring and Evaluation of Natural Forest Protection Project in Xinjiang	03/2019-07/2019
Forest change detection in arid and semi-arid area using multi-temporal remote sensing data	
Group project: The Application of Remote Sensing in Urban Planning	11/2018-12/2018
Investigation of Temporal-spatial Variations and Correlative Factors of Ground-level PM2.5 Concentrations over Hubei Province	
Group project: Hyperspectral image classification	10/2018-11/2018
Hyperspectral image classification based on Extended Multi-Attribute Profile (EMAP) and Principal Component Analysis (PCA)	
Cloud Detection for Domestic High-resolution Satellite Images	11/2017-01/2018
Cloud removing practice of GF-3 images based on ENVI IDL programming	

Work Experience

Shenzhen Kaifa Technology (Chengdu), Big Data Analysis, Intern	07/2019 - 08/2019

Intern at Big Data Analysis Department:

✓ Responsible for big data analysis and processing

✓ Conducted a project on Time-series data prediction using deep learning network: LSTM and CNN

Achievements: A Python demo for short term electric load prediction and Internship project report

Activities

Volunteer of China High Resolution Earth Observation Conference	Nov. 2017
Volunteer of Remote Sensing Week of Wuhan University	Oct. 2018
School Student Union, Minister of Publicity Department	06/2017 - 06/2018
WHU Youth Volunteer Association, Vice minister of Design Studio	06/2018 - 06/2019
WHU Bamboo Flute Club, vice president	06/2017 - 06/2018

Skills

Professional skills

- High proficiency in the use of professional software in the field of GIS and Data Science, e.g., ENVI, ERDAS, SNAP, ArcGIS
- Very Familiar with programming using R, Python, MATLAB
- Familiar with Deep learning platform, such as PyTorch, Tensorflow

Language skills

- Proficient user in English, native speaker in Chinese