

# WANG JIFEI

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## Education Background

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<b>National University of Singapore</b>	<b>08/2020 - 06/2022 (Expected)</b>
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- **College:** Faculty of Arts and Social Science
- **Major:** Geography, Master of Social Science (Research-based)

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<b>Wuhan University</b>	<b>09/2016 - 06/2020</b>
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- **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

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<b>Graduate</b>	<b>08/2020-present</b>
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<b>Investigating the effects on urban composition and configuration on LST variation</b>	09/2020-present
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LULC classification; 3D morphology extraction; Human mobility data analysis; Spatiotemporal LST analysis

<b>Tropic Tree Species Identification Project (collaborated with NTU)</b>	03/2021-04/2021
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Individual tree identification in tropic forest; 3D point cloud segmentation and classification

<b>Group project: Spatial Big Data and Analytics</b>	11/2020-12/2020
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Air pollution and UHI dynamics during COVID-19 in Wuhan and NYC

<b>Group Project: Spatial Dynamic Environments</b>	09/2020-11/2020
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Restoration of Critically Endangered Swamp Cypress Trees in Laos (Ecological data analysis; Habitat modelling; Nursery project design)

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<b>Undergraduate</b>	<b>09/2016-06/2020</b>
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<b>Bachelor thesis</b>	01/2020-06/2020
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Building Extraction from High-resolution Satellite Images based on Deep Learning Method (Deep U-Net)

<b>Monitoring and Evaluation of Natural Forest Protection Project in Xinjiang</b>	03/2019-07/2019
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Forest change detection in arid and semi-arid area using multi-temporal remote sensing data

<b>Group project: The Application of Remote Sensing in Urban Planning</b>	11/2018-12/2018
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Investigation of Temporal-spatial Variations and Correlative Factors of Ground-level PM2.5 Concentrations over Hubei Province

<b>Group project: Hyperspectral image classification</b>	10/2018-11/2018
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Hyperspectral image classification based on Extended Multi-Attribute Profile (EMAP) and Principal Component Analysis (PCA)

<b>Cloud Detection for Domestic High-resolution Satellite Images</b>	11/2017-01/2018
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Cloud removing practice of GF-3 images based on ENVI IDL programming

## Work Experience

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

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

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### **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