

Xingbo WANG

School of Remote Sensing and Information Engineering (RSIE), Wuhan University.

☎ (+86) 18086530996 | ✉ wangxbzb@hotmail.com | 📠 5faf39a84e01671

Education

Wuhan Foreign Languages School (WFLS)

HIGH SCHOOL GRADUATION CERTIFICATE

- Junior High (Sep. 2008 - Jun. 2011) & Senior High (Sep. 2011 - Jun. 2014)

Wuhan, China

Sep. 2008 - Jun. 2014

Wuhan University (WHU)

B.ENG. IN GEOGRAPHICAL MONITORING AND CENSUS

- GPA : 3.83/4.0 (90.5 /100) Rank: **1** /49
- 2014 - 2017 GPA: 3.75 → 3.77 → **3.98**
- IELTS: 7.0 (L:8.0 R:8.0 W:6.5 S:6.0), GRE: 154(V) + 170(Q) + 3.5(AW)

Wuhan, China

Sep. 2014 - Exp. Jun. 2018

Research Experience

Cooperative Management System of Scenic Security Based on UAV (National Undergraduate Innovation and Entrepreneurship Training Program(NUIETP))

PROJECT LEADER

- Experiments on our own UAV datasets using HOG + SVM, Faster-RCNN;
- Developed algorithm, using keypoints and segment features for people counting (SURF, block matching → filtered static points → morphological operation → ANN (keypoints and segments));
- Comparison tests and Verification tests on UCF datasets;
- Developed security supplementary software (**software copyright registered**);
- Rated as national **EXCELLENT Project** of NUIETP.

National Fund (10,000 CNY)

Mar. 2016 - Oct. 2017

Space-borne lidar product simulation algorithm

RESEARCH ASSISTANT

- Learned the interaction between particles (especially aerosol) and atmosphere;
- Learned the working principle of spaceborne lidar(especially CALIOP) and derived inversion algorithms;
- Programmed based on Algorithm Theoretical Basis Documents (NASA) and derived inversion algorithm.

LIESMARS, State Key Lab

Nov. 2016 - Apr. 2017

Computer Vision Research Team

RESEARCH ASSISTANT

- Built pre-trained network using CNN as a efficient filter;
- Extracted road feature lines and Restored road network topology after road prediction using multitasking CNN; (coauthor, submitted to **IEEE TGRS**, October 2017, Under **Revision**.)
- Using CNN to extract randomly oriented objects (redesign detection network architecture)

CVRS Lab, WHU

Jun. 2017 - Present

Highlight Course Projects

GROUP LEADER

- Petrol consumption simulation on Taxis in Beijing(Based on road network and taxi data).
- Analysis on daily weather data, integrated with moderate resolution RS images(Using Matlab, tableau).
- Spatio-temporal taxi tracks analysis and visualization, (Thematic analysis: Diver's residence mining based on big-scale taxi tracks (Using Python).)
- Research on coastline change of Yellow Sea based on sequential RS images and social and climate statistics.(Using Matlab, ENVI), etc.

RSIE, WHU

Urban Informatics (**all 90 +**)

Honors & Awards

MERITS

Dec. 2017 **Examples of WHU**, 4/408 national scholarship winners

Oct. 2017 **China National Scholarship(1.6%)**, 8,000 CNY

May. 2017 **Excellent Student, Excellent Student Cadre**, WHU

Oct. 2016 **Wang Zhizhuo Innovative Talents Scholarship (2%, highest major scholarship) & Invited Talk**, 6,000 CNY

May. 2016 **Merit Student, Excellent Student Cadre**, WHU

Oct. 2015 **China National Scholarship(2%)**, 8,000 CNY

May. 2015 **Merit Student, Excellent Student Cadre**, WHU

2016 - 2017

2016 - 2017

2016 - 2017

2015 - 2016

2015 - 2016

2014 - 2015

2014 - 2015

COMPETITIONS

Apr. 2017 **Meritorious Winner**, The Mathematical Contest in Modeling(MCM)
Nov. 2016 **National Third Prize**, National University GIS Skill Competition, secondary development
Dec. 2015 **National Second Prize**, The Chinese Mathematics Competitions(CMC)

Team Leader

Team Leader

Individual

Extracurricular Activity

Chorus of Department | Student Union of WHU

Sep. 2014 - Jun. 2015

BASS & CORE MEMBER

- Performed on Freshmen Welcoming Party & **3rd** prize of choir competition of Gold Fall Festival, WHU
- Volunteer of WHU International Cheery Blossom Festival
- Main planner of WHU Association Grand Festival

Department Basketball Team

Sep. 2014 - Mar. 2017

POWER FORWARD

- Took part in WHU Freshmen Basketball Competition(**Top 8**)
- Took part in 2 consecutive WHU Tengfei Cup Basketball Competition

1409 Class Committee

Jun. 2015 - Jun. 2017

MONITOR

- Won **Advanced Class** of the Department(2016)
- **3 consecutive** Excellent Student Cadre(2014,2015,2016)

Summer Social Practice (Research on Beidou Industry)

Jul. 2016 - Aug. 2016

CORE MEMBER

- Wrote report on Beidou application & Oral presenter of our team
- **Advanced Individual** of the Summer Social Practice, WHU (2016)
- **3rd** Prize of Social Practice Presentation Contest

Technical Skills

Programming: C/C++, Matlab, python, C#, SQL

Software: ArcGIS, PS, SPSS/SAS, ENVI, ERDAS, Tableau, etc.