

Zhixuan Wang

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EDUCATION

Wuhan University, *Wuhan, Hubei, China*
B.S. in Geographical Information Sciences
Cumulative GPA: 3.65/4.00

Sept 2014 – Present

INTERNSHIP EXPERIENCE

Shenzhen Kuangchi Space Technology Company, *Shenzhen, China*
Data Analyst

Jul 2017 – Aug 2017

- Worked on basic data analysis using Matlab and Python within a team
- Analyzed Right Whale Identification Project, learning and simulating the codes to understand the design and specific optimization methods needed for that specific application

COMPUTER SCIENCE BACKGROUND

Undergraduate Courses

- C Programming, Database Tech, Object-oriented Programming (C++), Data Structures, GIS Fundamental Graphic Algorithms, Spatial Data Handling
- C++ Project: A Book Store Cash Register System, A Library Book Lending System
- Geographic Information System: An ArcGIS-like basic GIS system, A Wuhan Tour Guide System
- WebGIS Project (Java, JS): A Google Earth-like basic online map
- Bachelor's Thesis: Jetson-based high-performance graphics analysis focused on computer vision and AI

Research Experience

Research Assistant, CVRS Lab, Wuhan University

Oct 2017 – Present

- Project: Optimization on Fast-RCNN on a specific RS application scene
- Supervisors: Professor Jian Yao, Jing Han
- Based on Tensorflow, led Jing Han, my group aims to optimize Fast-RCNN, mailing in its bounding boxes, to get a more accurate localization result when this network is applied to the RS images

Research Assistant, School of Resource and Environmental Science, Wuhan University

Sep 2017

- Project: Basic Similar Image Retriever Experiment
- Supervisor: Professor Shen Ying
- Composed building's photo library, based on Keras in AWS, by inputting original images to CNN to get feature maps
- Calculated similarity between each library feature map with one of the target image, most similar phot could be retrieved

Research Assistant, School of Resource and Environmental Science, Wuhan University

Oct 2016 – Jun 2017

- Project: The Development of a Certain Type Standard
- Supervisor: Professor Shen Ying
- Collected and organized geographic data formats and sample data from Facebook, Twitter, etc. and assessed their reliability
- Came up with assuming possible data formats based on the common collected geographic data formats

Self-Learning

Python: House pricing analysis (Kaggle), Basic research engine (following Udacity), Basic deep learning solutions

C++: Assignments of C++ Primer

Java: Assignments of Algorithms