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EDUCATION BACKGROUND

Anhui Qingyang Middle School (high school diploma), China 2014.09- 2017.05

China's College Entrance Examination: 630 (rank: 1480/499,000, TOP 3‰)

Wuhan University, China 2017.09 – 2021.06

Undergraduate student in the Department of Geographic Information Engineering, School of Remote Sensing and Information Engineering | Cumulative GPA: 86.8/100(major: 88.4)

Awards and Certificates:

- S prize of MCM/ICM [2018]
- Third prize of Mathorcup University Mathematical Modeling Competition [2019]
- Second prize of China International Mathematical Modeling Competition [2019]
- H prize of Asia and Pacific Mathematical Contest in Modeling [2019]
- H prize of MCM/ICM [2019]
- Wuhan University Scholarship [2017 2018]
- Wuhan University Elite Student [2017 2018]
- Coursera - Foundations for Big Data Analysis with SQL [2020]
- Coursera - Introduction to Big Data [2020]
- Coursera - Neural Networks and Deep Learning [2020]

PROFESSIONAL EXPERIENCE

1. Research on Nighttime Remote Sensing 2018.04 – 2019.04

■ Based on the remote sensing data of night-time light obtained by DMSP / OLS system, this project analyzes the development status of emerging cities in recent years, points out the relationship between cities and the surrounding underdeveloped areas. I am responsible for the main work.

2. Human behaviour judgment, clustering and analysis based on human trajectory 2018.01 – 2019.07

■ This project mainly records the tracks and obtains the track characteristics of different types of people through deep learning. We can obtain a specific reference and identify the people to whom tracks belong. I mainly conduct data analysis and processing and the development of data acquisition software.

3. Research on indoor positioning and navigation 2019.07 – 2020.07

■ The primary purpose of this project is to develop an indoor positioning and navigation system in a large shopping mall suitable for daily life by using as few external hardware as possible, to establish the fully automatic system. I am responsible for the main algorithm and mobile & server application development.

4. Research on the relationship between COVID-19 and the global aviation network 2020.04 - Current

■ Analyze the impact of the epidemic situation on the aviation network. Based on the characteristics of the aviation network from January to April 2020, time series analysis and spatial analysis have been made, to get the corresponding conclusions. I led this research.

5. Development of travel assistance app for the disabled 2020.04 – 2020.11

■ This project attempts to extract the data of barrier-free public transport in the current urban environment, and on this basis, provides guidance and suggestions for the disabled to travel more conveniently and smoothly. I mainly conduct background algorithm research and the implementation of mobile terminal programs.

FUNDING

1. The National Key Research and Development Program (Grant No: 2017YFB0503600)

Name: Geographic Big Data Mining and Spatiotemporal Pattern Discovery Identity: Participant
Funds: ¥ 46,970,000 Organization: Institute of Geographic Sciences and Natural Resources Research, CAS

2. Wuhan University Innovation Training Program (Grant No: S2018213651)

Name: The Development Status and Surrounding Relationship of Emerging Cities by RS Identity: Manager
Funds: ¥ 1,000 Organization: Wuhan University

3. Hubei Province Innovation Training Program (Grant No: S2020213006)

Name: Research on barrier-free intelligent travel of public transportation Identity: Initial Manager
Funds: ¥ 3,000 Organization: Hubei Province

RESEARCH ASSISTANT POSITION

ISIP Lab

2020.09 - Current

Employer: Professor Kun Qin

Project: Complex Natural and Social Network Analysis

EXTRACURRICULAR ACTIVITIES

1. Algorithm and Front-end developer

2020.09-Current

Employer: Professor Kun Qin, the associate dean of the School of Remote Sensing and Information Engineering
Content: Work to build the NSFC platform to analyze and visualize the data related to the COVID-19 epidemic situation. My task is to analyze the global aviation network.

2. Lecturer

2019.09-Current

Employer: Jinchen Ding, the leader of the WHU Space Network Media Association
Content: Teach some technology about computer science and GIS skills.

3. Website administrator

2019.09-Current

Employer: Dr Meng, employed lecturer of Wuhan University
Content: Develop a schoolwork management system and maintain it.

4. Data operator

2020.08-Current

Employer: Dr Xiaokang Fu, post-doctor of Wuhan University
Content: Handle data from Safegraph and Foursquare to help analyze the model of COVID-19's spread.

CONFERENCES AND SEMINARS

Meetings on data analysis of novel coronavirus epidemic situation

Online Conference, 04/2020 – 06/2020

Assist in processing, researching and discussing the aviation network data.

ISIP & BDA 2nd Conference

Wuhan, Hubei, 01/2021

Introduce methodologies to research the global flight network by multi-flow network theories.

SKILLS

Computer language

C&C++ / Java / Javascript / Python / HTML / PHP / Shell / SQL / CSS / C#

System framework

Hadoop / NodeJs / MapReduce / HBase / HDFS / Vue / Linux Operating System / Android / QT / MFC

Software

ArcGIS Pro / ArcGIS Desktop / Geoway / SAS Base / Matlab (Basic) / QGIS / SQL (MySQL SQL Server) / SPSS software / IBM SPSS Modeler / Postgresql / KNIME

Hardware

Bluetooth / GPS / Zigbee