

Fangxu Yuan

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EDUCATION

Xiamen University

Sept 2017 - Jun 2021

- Bachelor of Engineering in Computer Science and Technology GPA (overall): 3.24/4.0
- Relative Courses: Algorithm Design and Analysis (A); Digital Image Processing (A+); Operating System (A+); Software Engineering (A); Compilation Principle (A).

The Hong Kong University of Science and Technology

Sept 2021 - Nov 2022

- Master of Science in Information Technology

RESEARCH EXPERIENCE

Urban Village Boundary Identification | SCSC | Xiamen University

Sept 2018 - Feb 2021

Advisor: Longbiao Chen

Patent: Urban Village Identification and Population Estimation Method, System and Computer Storage Medium Based on Deep Learning (Patent Number: 202010873246.5)

Paper: [UbiComp 2021] UVLens: Urban Village Boundary Identification and Population Estimation Leveraging Open Government Data

- Segment the city-wide satellite imagery into small patches by the road networks. Exploited the Mask-RCNN model to identify urban village boundaries in each patch.
- Feed features to a designed multi-view neural network model (MvNN) to estimate the population of each urban village.

PROFESSIONAL EXPERIENCE

Alibaba Group - Alibaba Cloud Intelligent Business Group – Hybrid Cloud Platform

Apr 2021 - Jul 2021

Test Development Intern

- **Combing use cases:** Completed use cases Combing for the private cloud services of the O&M platform.
- **Stress testing:** Independently completed the stress test of the new version of the distributed solution *Dragonfly*.
- **Automated test:** Independently wrote and completed the automation interface test code of the operation and maintenance platform, completed the application operation and maintenance life cycle main process use case automated testing, covering all sixty-one interfaces and three main processes of the operation and maintenance platform products
- **Functional acceptance:** Independently responsible for and complete the functional acceptance of multiple businesses to the delivery stage.

Shenzhen Ridge Engineering Consulting Co., Ltd.

Mar 2021 - Apr 2021

Data Analysis Intern

- **Data analysis:** Analyzed the enterprise indexes of TOP 50 real estate enterprises in China according to different rules.
- **Design a machine learning engineering early warning model:** Participate in the design of real estate and industry data standardization and engineering early warning models. According to the engineer's suggestion to assign different weights to the measured data of the project, compare the historical data of owner group complaints and safety accident cases to analyze the current data, output the risk probability and carry out risk warning.

SELECTED AWARDS

- Excellent Undergraduate Research Assistant, School of Informatics, XMU Oct 2020
- The Third Prize of China University Computer Design Competition (TOP 1%) Aug 2019
- Xiamen University Academic Excellence Scholarship (TOP 20%) Oct 2019

SKILLS

Language Skills: IELTS:7 CET-6: 543

Programming Languages: Python, C++, Java, GO

Tools: Django, Spring, TensorFlow