Mr. Wan ZhuoyueBirthday: 14/01/2000 | Mobile: +852 93692400 | E-mail: <u>zwanah@connect.ust.hk</u> Address: FLAT D, 32/F, BLOCK 7, EAST POINT CITY, TSEUNG KWAN O, NEW TERRITORIES, HONG KONG

EDUCATION	
Master of Science in Data-Driven Modeling, The Hong Kong University of Science and	09/2022-08/2023
Technology(GPA:4.12/4.3)	
Bachelor of Science in Statistics, Chongqing University(GPA:85.02/100)	09/2017-06/2021

RESEARCH EXPERIENCE		
Trustworthy Medical Image Classification(Supervised by Asst. Prof. Hao Chen, HKUST)	10/2022-Now	
Contributed to the joint submission to ICCV2023, providing rigorous and meticulous theoretical derivations of the method;		
✓ Conducting research as a Research Assistant;		
Investigating topics such as shortcut learning, debias, fairness, and long-tail data in Medical Computer Vision;		
✓ Establishing a medical debias benchmark in mitigating bias in medical image classification;		
Medical Image Segmentation(Supervised by Prof. Yang Xiang, HKUST)	09/2022-Now	
✓ Reproducing a Medical Image Segmentation paper that includes an Elastic Interaction-Based Loss Function;		
✓ Conducted multi-label segmentation in GI tract images for stomach, large bowel, and small bowel classes;		
✓ Extended a two-dimensional loss function to its three-dimensional form;		
✓ Applied the Elastic Interaction-Based loss function extension to a new domain;		
✓ Reproducing a Retinal Image Restoration paper;		
Prediction of "High to turn" in the stock market(Supervised by Prof. Zhimin Zhang, CQU) 09/2020-06/2021		
✓ Built theoretical models such as Stacked XGBoost, LightGBM, CatBoost, LR, RFC, and SVM models;		
✓ Conducted analysis of "High to turn" phenomenon and utilized predictive modeling to forecast its o	ccurrence;	
Long-tailed Visual Recognition		
✓ Conducted comparative analysis of state-of-the-art methods in Long-tailed Visual Recognition;		
✓ Applied the proposed solutions to address the challenges of long-tailed distribution, including data and feature imbalance, in		
medical image datasets;		
Retinal Image Restoration using Transformer and Cycle-Consistent GAN		
✓ Translated low-quality images to high-quality images;		
✓ Combinated vision transformer (ViT) encoder and convolutional neural network (CNN) decoder;		
Predict the 2022 College Men's Basketball Tournament(Kaggle)		
✓ Predicted the 2022 College Men's Basketball Tournament using a logistic linear regression model;		
✓ Achieved excellent forecast results with a simpler model, showcasing strong analytical abilities;		
GI Tract Image Segmentation		
✓ Multi-Label(Stomach, Large Bowel and Small Bowel classes) segmentation;		

HONORS & AWARDS	
Second Prize (National level), The Chinese Mathematics Competitions	11/2018
Third Prize (National level, Top 6%), The 8 th TipDM Cup Data Mining Challenge Committee	06/2020
Second-class Scholarship (Top 2%), Chongqing University	05/2021
Third-class Scholarship (Top 5%), Chongqing University	11/2018
Advanced Individual of Scientific and Technological academic innovation (Top 1%), Chongqing	
University	
Outstanding Student (Top 1%), Chongqing University	01/2019
Third Prize(Top 5%), The 2 nd "Mathematics and Statistics Cup" Mathematical Modeling Challenge	05/2018

PROJECT EXPERIENCE			
Team leader (3 people), the 8th "TipDM Cup" Big Data Mining l	Race(National-level) 07/2019-08/2019		
✓ Awarded Third Prize at the national level for an analysis of the "	High to turn" phenomenon in the stock market;		
Led a team in building theoretical models such as BP neural network and Logistic models, as well as data collection and programming implementation using R;			
Conducted in-depth analysis to predict the occurrence of "High to turn";			
Prediction of "High to turn" in the stock market based on Stackin	g Ensemble model 10/2020-06/2021		
✓ Developed a Stacking Ensemble model using Python to predict the	ne "High to turn" phenomenon in the stock market;		
✓ Improved classification performance by utilizing Stacked XGBoost, LightGBM, CatBoost, LR, RFC, and SVM;			
✓ Continued the previous project and achieved better results with the Stacking Ensemble model;			

INTERNSHIP				
Int	ern, Capital Business and Risk Management Department, Nanchang Xiangtang Railway Port	29/06-28/08/2020		
Dev	velopment Co., Ltd.			
✓	Participated in product risk assessment and evaluated the degree of risk during the loan approval process;			
✓	Processed data, reviewed and compiled the statistical statements;			
Int	ern, Business Marketing Department, China Construction Bank	14/01-14/02/2020		
✓	Built models in credit crisis management and bad debt analysis;			
✓	Formulated strategies for attracting customers;			
✓	Evaluated investment risks facing consumers;			

PROFESSIONAL SKILLS			
Knowledge:	Strong mathematical background(Mathematical analysis, Advanced algebra, Numerical analysis, Partial		
	differential equation, Real Analysis), data-driven background(Network modelling and Statistical machine		
	learning) and optimized theory background(Information science, Operational research)		
Programming:	Python, R, SPSS, SAS, Matlab, C++		
Language:	IELTS: 6.5 (L: 7.0 R: 7.0 W: 6.5 S: 5.5)		