**Binglun Wang**

School of Computer Science, University of Birmingham

Edgbaston, Birmingham B15 2TT

[bxw135@student.bham.ac.uk](mailto:bxw135@student.bham.ac.uk) +44 7724807306 (mobile)

***EDUCATION***

* **University of Birmingham, UK** 09/2021-09/2022
* Master of Science in Artificial Intelligence and Machine Learning
* Grades: 80%
* Expected Degree Award: Distinction
* **Northwest University, China** 09/2017-07/2021
* Bachelor of Engineering in Electronic Information Science and Technology (Sino-foreign Cooperation in Running Schools)
* Grades: 79% in First three years, first degree in last year of University of Essex
* **University of Essex, UK** 11/2017-06/2021
* Bachelor of Science in Electronic System Engineering
* Honours Class II (Division I)

***RESEARCH EXPERIENCE***

* **Semantic Segmentation of Cardiac Magnetic Resonance (CMR) Images using Deep Learning, module project, University of Birmingham** 2021
* Implemented segmentation task and improved the performance of 4NNs (UNet, DeepLab, SegNet, FCN) in small dataset (training dataset: 100 grayscale intensity images at 96 × 96 resolution）
* Results: The best test dice score achieved 0.891 (bagging of UNet3+ and UNet)
* **Image Classification in Deep learning, Degree Project, University of Essex** 2020-2021
* Summarised and investigated several significant modern convolutional neural networks: LeNet, AlexNet, VGGNet, GoogLeNet
* Analysed the effectiveness of optimisers, data augmentation, dropout layer, and batch normalisation with extensive experiments
* Created a GUI system to visually compare results from different CNNs and classify photos in real time with trained models
* Results: the top1 val. errors (%) in CIFAR10 are 29.39, 16.3, 15.93 and 9.87 respectively (LeNet, AlexNet, VGGNet, GoogLeNet)

***PROGRAMMING CONTESTS***

* **Fifth Place & Gold Medalist**, Provincial Collegiate Programming Contest of China (Guangxi site) 2021
* **Silver Medalist**, International Collegiate Programming Contest (ICPC) Asia Regional Contest (Yinchan Site) 2020
* **Silver Medalist**, National Collegiate Programming Contest of China (Mianyang site) 2020
* **Silver Medalist**, ICPC Asia-East Continent Final 2019
* **Silver Medalist**, ICPC Asia Regional Contest (Yinchan Site) 2019
* **Bronze Medalist**, ICPC Asia Regional Contest (Nanjing Site) 2019
* **Bronze Medalist**, National Collegiate Programming Contest of China (Ha’erbin site) 2019

***EXTRACURRICULAR EXPERIENCES***

* **Lecturer, Intelligent Processing for Multimedia Information Laboratory (IPMI), Northwest University** 07/2021-08/2021
* A programme to improve new lab members’ algorithm and coding ability
* Taught Game theory, number theory and algorithms
* **Lecturer, Xiaozhi Programming Education Institution** 04/2020-10/2021
* A long-term programme training programming contest participants in High School Affiliated to Renmin University
* Offered tutorials of ICPC exercises and camps of OI in recent years
* **Lecturer, Jisuanke Informatics Education Institution** 12/2019-09/2020
* A long-term programme training high school programming contest participants computer science
* Taught algorithms in OI and basic C/C++ programming
* **Student Coach of Algorithm Society, Northwest University** 09/2019-07/2021
* Arranged ICPC programming training for the society
* Offered ICPC programming tutorial for the society members
* **Video Blogger, Bilibili (a Chinese video sharing website) & YouTube**  2018-now
* Share tutorial videos of algorithm problems and algorithm exercises
* 180+ videos & 1800+ fans

***SCHOLARSHIPS & AWARDS***

* Rank 29th, Pawpularity Contest, Kaggle 2022
* First-class scholarship, Northwest University 2019
* Excellent Minister of the Student Union, Northwest University 2019
* Second-class scholarship, Northwest University 2018
* National prize of “Thousands of Universities and Thousands of Projects”, Voluntary Work in Rural Education, Northwest University 2018
* School-level Third Prize, China College Students' 'Internet+' Innovation and Entrepreneurship Competition 2018
* School-level First Prize, China College Students’ Entrepreneurship Competition, Northwest University 2018

***RESEARCH INTERESTS***

* Computer Vision, Specifically, medical Image analysis