WANG SHIHAO (ARTHUR)

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Education

B.Sc. in Computer Science
Hong Kong Baptist University
GPA: 3.54/4,
Ranking: Top-5%,
Graduated with *First Class Honours* and *Science Elite Graduate*
2015.8 - 2019.6

Study Abroad Programmes
McGill University
Exchange student
GPA: 3.85/4
2017.8 - 2018.1

Technical University of Munich
Exchange Student
2019.4 - 2019.8

Skills

Java/Python/C/C++/
LabVIEW/LaTeX

Linux/Git

PyTorch/Caffe/Keras

Parallel Programming/
GPU Programming/
Sensor Programming

Links

Github://arthursdays

Linkedin://arthurwangsh

Address

Room 13E,
Hung Wan Building,
31-41 Cheung Sha Wan Road,
Sham Shui Po,
Kowloon, Hong Kong SAR China

Selected Experiences

Computer Science Department, HKBU — Hong Kong SAR
Research Assistant — *2017.6 - 2017.8*
"Optimising EPPMiner with SIMD" supervised by Prof. CHU, Xiaowen
- Analyzed a set of cross-platform benchmark software named EPPMiner.
- Optimised the source code of the benchmark with SIMD and OpenMP.

Research Assistant — *2018.6 - 2018.8*
"Dermatological Image Diagnosis by Deep Learning" supervised by Prof. CHU Xiaowen.
- Collected and processed 10000+ dermatology pictures from 6 classes.
- Trained, optimised and compared multiple CNNs based on the collected images.
- Proved the feasibility and set a baseline for further research.

Final Year Project — *2018.9 - 2019.5*
"Dermatological Image Diagnosis by Deep Learning" supervised by Prof. CHU Xiaowen.
- Built two datasets which contains 10 and 100 classes of dermatology images.
- Benchmarked a series of CNNs for classification task on the 2 datasets.
- Built a dataset with bounding box annotations for skin lesion area detection.
- Trained several Faster-RCNNs to detect and classify lesion area of skin diseases images.
- Proposed a new two-stage method based on Faster-RCNN to improve accuracy.

Research Assistant — *2019.8 - current*
- Developed a website to do skin disease prediction online.
- Continued to do research in medical imaging and clinical dermatological images.
- Started to implement AutoML & GNN in further researches about medical imaging.

Yi-Yuan Intelligence Co., Ltd. — Shenzhen, China
Software Engineer Intern — *2019.2 - 2019.4*
- Designed and developed algorithms for facial skin image processing.
- Developed a SSD based method for facial image segmentation.
- Proposed and implemented a method for quality examination of images
- Designed an algorithm for facial red-region detection.

Student Activities

Enactus HKBU | Project Team: Member (2016), Vice-President (2017)
- Devoted to make the society better by setting up social enterprises.

HKBU Science Elite Program | Member since 2016
- Selected as one of the 10 students in science faculty

HKBU Computer Science Department | Student ambassador, peer tutor (2016-2018)
- Served as student ambassador to represent for computer science department.
- Served as peer tutor to help junior students in computer science department.

HKBU Supercomputer Team | Member (2017), Team Leader (2018, 2019)
- Competed with the top universities in ASC Student Supercomputer Competition.

TUM Phoenix Robotics Team | Member in Auto-Driving Team and ML Team (2019)
- Developed a real-time traffic sign detection system which can be run on Jetson TX2.

Honours

Scholarships

- Undergraduate Scholarship in Computer Science — 2016
- **HKSAR Government Talent Development Scholarship** — 2017
- Outstanding Student Scholarship — 2017

Awards

- First prize in Enactus Hong Kong Regional Competition — 2016, 2017
- Third prize in Enactus China National Competition — 2016, 2017
- **First class award** in ASC17 and ASC18 Supercomputer Competition — 2017, 2018
- Second class award in ASC19 Supercomputer Competition — 2019
- **Silver Award** of HUAWEI Cloud AI Developer Contest — 2019
- MI Asia Award — 2019
- President's Honour Roll — 2016, 2017, 2018, 2019