

Wenqiang Li

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EDUCATION

- The Hong Kong University of Science and Technology, Hong Kong** 2022.09-present
- Ph.D. in Computer Science Engineering
 - Supervisor: Dr. Hao Chen
- The Hong Kong Polytechnic University, Hong Kong** 2020.09-2022.08
- MPhil in Industrial Engineering and System
 - Thesis Title: Data-Efficient Deep Learning Algorithms for Computer-Aided Medical Diagnosis
 - Supervisor: Prof. Suet To; Co-supervisor: Dr. Yuk Ming Tang & Dr. Kai Ming Yu
- City University of Hong Kong, Hong Kong** 2019.09-2020.09
- MSc in Engineering Management
 - Cumulative GPA: 3.43/4.0
- The Hong Kong Polytechnic University, Hong Kong** 2014.09-2019.09
- BSc (HONS) in Enterprise Engineering with Management
 - Cumulative GPA: 3.3/4.0
 - GPA of Junior & Senior Year: 3.5/4.0
- University College London, UK** 2018.07-2018.08
- Summer Program in Big Data and Data Science

RESEARCH INTERESTS

Computer-Aided Diagnosis, Self-supervise learning, Semi-Supervised Learning, Multi-Modality Medical Image Analysis, Generative Adversarial Network, Diffusion Model

PUBLICATIONS

Published

- **Li, W.**, Tang, Y. M., Yu, K. M., & To, S. (2022). SLC-GAN: An automated myocardial infarction detection model based on generative adversarial networks and convolutional neural networks with single-lead electrocardiogram synthesis. *Information Sciences*, 589, 738-750.
- **Li, W.**, Tang, Y. M., Wang, Z., Yu, K. M., & To, S. (2022). Atrous residual interconnected encoder to attention decoder framework for vertebrae segmentation via 3D volumetric CT images. *Engineering Applications of Artificial Intelligence*, 114, 105102.
- Tang, Y. M., Chau, K. Y., **Li, W.***, & Wan, T. W. (2020). Forecasting Economic Recession through Share Price in the Logistics Industry with Artificial Intelligence (AI). *Computation*, 8(3), 70.
- Tang, Y. M., Ip, A. W., & **Li, W.** (2022). Artificial intelligence approach for aerospace defect detection using single-shot multibox detector network in phased array ultrasonic. In *IoT and Spacecraft Informatics* (pp. 1-27). Elsevier.

QUALIFICATIONS & AWARDS

- Institute of Industrial & Systems Engineers (IISE), Hong Kong** 2021.06
- 2nd-Runner Up Award in the “Industrial and Systems Engineering Management Innovation Project Competition 2020”
- Chinese Institute of Electronics, China** 2021.03
- Certificate of Senior Data Analyst
- Classified Post, Hong Kong** 2019.11
- 1st-Runner Up Award in the “Classified Post Hackathon” (**Group Leader**)
- Chartered Management Institute, UK** 2019.10

- CMI Level 5 Certificate in Management and Leadership

The Hong Kong Institution of Engineers, Hong Kong

2019.06

- 1st-Runner Up Award in the “HKIE – MI Student Project Competition 2018-19” (**Individual**)
- The title of the awarded project is “Deep Learning Application for Automatic Detection of Myocardial Infarction based on ECG Signals”

The Hong Kong Polytechnic University, Hong Kong

2019.04

- Best Group Award of Sustainable Development Cases Competition (**Group Leader**), Faculty of Engineering

The Hong Kong Polytechnic University, Hong Kong

2018.11

- Champion of the Business Plan Competition (**Group Leader**), Department of Industrial and Systems Engineering

PROFESSIONAL EXPERIENCE

Teaching Assistant, The Hong Kong Polytechnic University

2021.01-2022.08

- Award winner for Magnificent Teaching Support in 2020/21 Semester 2
- Prepare tutorials, design lab notes about data visualization, machine learning, and Kaggle competition, and assist during lab sections for a graduate-level class ISE5606 (Business Intelligence and Data Mining)
- Grade assignments and tests for ISE5606, ISE418 (Computer-aided Product Design)
- Design and conduct tutorials for Final Year Project (FYP) students about the theory and code implementation of deep learning algorithms

CLP Power Hong Kong Limited

2017.06-2018.06

Sandwich Intern in IT Strategy and Architecture Department

- Investigated the latest technologies and products in the market and explored the applicability to CLP (E.g., Analytics Platform, Security Solution, Cloud, and Artificial Intelligence)
- Participated in architectural design to identify potential risks and cost implications
- Collected user requirements and analyzed usage statistics for providing insight into enhancing new technology adoption

RELEVANT SKILLS

- Computer Skills: Python, C language, TensorFlow, Keras, Pytorch, Linux, R language, MATLAB, Bizagi Process Modeler, Power-BI, UI Design
- Language Skills: English (Proficient), Chinese (Native), Cantonese (Fluent)

ADDITIONAL INFORMATION

- GRE: 320 (Verbal 152, Quantitative 168, Writing 3.0)
- Hobbies: Fitness, Reading
- Extracurricular Activities: Construction worker in the North Thailand Jungle 2015.07-2015.08