

JINGLI SHI

jingli.shi@aut.ac.nz, jingli.shi@u.nus.edu | (+64)-27-3660654, (+65) 9865-8766

RESEARCH INTEREST

I have developed a particular interest in the Artificial Intelligence technology (Machine Learning, Deep Learning and Text Mining) during pursuing master degree at NUS, in which I would be really interested and love to advance my understanding of the period further through PhD study.

EDUCATION

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|-------------|---|-------------|
| M.S. | National University of Singapore (NUS), Singapore
Master of Technology (MTech.) Software Engineering | 2017 - 2019 |
| M.S. | Shenzhen University, China
College of Computer Science and Software Engineering
Master of Technology of Computer Application
Thesis: "The Research and Application of Tensor Voting Algorithm on Enhancement and Feature Point Extraction of Lung Image"
Advisor: Prof. Xuan Yang | 2011 - 2014 |
| B.S. | Guangdong University of Petrochemical Technology, China
Minored in Information & Computer Science | 2006 - 2010 |

HONORS AND AWARDS

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| CAAS DG Award | 2019 |
| Civil Aviation Authority of Singapore (CAAS) DG Award is for involved project named Vessel Height Measurement System (VHMS IV) which is enhancing safety and efficiency through innovation. | |
| Scholarship from the National inspirational | 2008 |
| The scholarship grants to two students who excel academically in the college. | |
| Excellent Student Award | 2006 - 2010 |
| The award is for students with outstanding (first class) academic results in current semester. | |

COURSE AND RESEARCH

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| NUS, Singapore | 2017 - 2019 |
| Even my major is software engineering, I am really interested in AI (Artificial Intelligence). So, I choose many courses related to it, such as, Computational Intelligence, Machine Learning, Text Mining and Sense Making and Insight Discovery, etc. Two of assignment paper | |

are elected as candidate papers to be published, both of which are related to deep learning algorithm.

Shenzhen University, China

2011 - 2014

As a member of National Natural Science Foundation Program (No. 60972112), my responsibility is to study and analysis medical image processing algorithms and proposed a method to enhance vessel and extract vascular bifurcations in 3D lung CT image. I also was involved in some work of publishing papers in ICMIA, BMC.

WORKING EXPERIENCE

National Computer Systems (NCS), Singapore

2016 to Present

Senior System Engineer

- Analyze, design, develop and maintain project Vessel Height Measurement System (VHMS IV), which awarded CAAS DG Award 2019.
- Architect solutions for hardware testing (e.g. camera, PTU, serial device server, etc.)
- Conduct user acceptance test, reliability acceptance test and user training.
- Provide continuous maintenance and support before final delivery.

Excelpoint Technology Ltd., Singapore

2015 - 2016

R&D Engineer

- Design and develop firmware software using C language for Bluetooth product (HP ROAR TRAVEL and HARMAN JBL WIRELESS UA HRM).
- Design and develop PCB test tools using C++ and Python.
- Conduct Bluetooth product feature testing.

PUBLICATIONS

- [1]. Dan Ai, **Jingli Shi**, Junjun Cao, Hongyan Zhong. Multi-Modal Medical Image Registration by Combining Improved MeanShift and RPM Systems. Applied Mechanics and Materials. Vols. 239-240 (2013) pp 1472-1475, 201.
- [2]. Xuan Yang, Jihong Pei, **Jingli Shi**. Image registration using consistent robust point matching. Proc. IEEE International Conference on Bioinformatics and Biomedicine 2013: 273–278.

(under-publish)

- [3]. Jingli Shi, Tsan Yeesoon, Hu Mengxi, Chetna Gupta, Zhao Liu. A Novel Feature Selection Approach Integrating XG-Boost Algorithm with Artificial Bee Colony Metaheuristic Methods on Human Activity Recognition Dataset.
- [4]. Jingli Shi, Yinghua Qu, John Chua, Jing Tian, Matthew Chua. Automatic Quantitative Analysis of Brain Organoids via Deep Learning.