# BO JIANYUAN

• jybo.2020@phdcs.smu.edu.sg • +65 8731 4818 • http://www.bojianyuan.com • github.com/BMDroid

## EDUCATION

**SINGAPORE MANAGEMENT UNIVERSITY** – Singapore **Aug 2020 – Jun 2025**
**PhD of Computer Science** Artificial Intelligence & Data Science
- GPA 4.0/4.0; Key courses: Machine Learning (A+), Learning and Planning in Intelligent System (A+)

**SINGAPORE MANAGEMENT UNIVERSITY** – Singapore **Jan 2019 – Jun 2020**
**Master of IT in Business (Artificial Intelligence)**
- Fujitsu-SMU Urban Computing & Engineering Corporate Lab (UNiCEN) Scholarship winner
- AY2019-2020 Dean's List
- GPA 4.0/4.0; Key courses: Algorithms Design & Implementation, Applied Machine Learning, AI Planning and Decision Making

**UNIVERSITY OF SOUTHERN CALIFORNIA** – Los Angeles, US **Jan 2015 - Dec 2016**
**Master of Science in Mechanical Engineering**
- Focus areas: Automatic Control and Finite Element Analysis, Robotics
- GPA 3.74/4.0; Nominated for Academic Excellence Award of AME Department of the USC

**HUAZHONG AGRICULTURAL UNIVERSITY** – Wuhan, China **Sep 2010 - Jun 2014**
**Bachelor of Engineering in Mechatronics Engineering**
- Focus areas: Computer Aided Design, Signal Processing
- GPA 3.51/4.0; Outstanding Student Award; Merit Student Award; Model Students of Academic Results

## EXPERIENCE

**Quantum Engineering Programme (QEP)** - SG **Jan 2021 – May 2021**
**Secretary of Quantum Young Researchers Association (QYRA)**
- Work with other committee members to held seminars and activities about quantum computing and engineering for young researchers in Singapore

**School of Computing and Information System, Singapore Management University** - SG **Jan 2021 – May 2021**
**Teaching Assistant of CS606 AI Planning and Decision Making**
- Conduct lab sessions on CPLEX and docplex
- Create and grade the programming assignments
- Answer questions from the students on Piazza
- Guide the students through their final project

**School of Computing Information System, Singapore Management University** - SG **May 2020 – Aug 2020**
**Teaching Assistant of CS606 AI Planning and Decision Making**
- Worked with Prof. LAU Hoong Chuin to create assignment
- Graded the assignment
- Answered the questions from students

**School of Computing and Information System, Singapore Management University** - SG **Feb 2020 – May 2020**
**Research Assistant**
- Converted PDF files of discussion forum into machine readable form
- Performed text pre-processing and text mining tasks to answer the research questions
- Performed NLP to analyze and summarize the content and context of the discussion threads

**Fujitsu-SMU Urban Computing and Engineering (UNiCEN) Corp. Lab** – SG **May 2019 – Dec 2019**
**MITB Scholar – Capstone Project**
- Developed and implemented hybrid classical quantum algorithm to solve large scale scheduling problem.
- Proposed a new decomposition approach to solve large scale flow shop and job shop problem.

- The resulting method could derive good quality solution comparing with traditional heuristics in short period of time.

**Research Student** **Jan 2020 – Sep 2020**

- Develop hybrid classical quantum algorithm to solve complex combinatorial optimization problems.

**HZAU – ACADEMIC PROJECT "PARAMETER EXTRACTION OF CORN BY MACHINE VISION"** **Dec 2012 – Apr 2013**

**Team Leader**

- Designed the mechanical parts of the machine using AutoCAD and constructed its 3D models by SolidWorks.
- Negotiated with the machinery manufacturers online to order mechanical components.
- Led a team of five built the machine from scratch. In the end, the machine can extract corn's characteristics including kernel size, color and amount automatically.

## ADDITIONAL

- **Programming Languages:** Python, C++, C, Java, Shell, HTML, CSS
- **Software & Environment:** TensorFlow, Keras, MATLAB, Git, SolidWorks, AutoCAD, Windows, Linux, MacOS
- **Certifications:** Machine Learning by Stanford University on Coursera, Neural Networks and Deep Learning on Coursera, Improving Deep Neural Networks on Coursera, Structuring Machine Learning Projects on Coursera
- **Awards:** Model Student of Academic Rewards, Outstanding Student Award, Merit Student Award
- **Activities:** Nanhu Youth Newspaper Editor, The Hope Project volunteer
- **Language:** Mandarin (Native), English (Proficient)
- **Interests:** Coding and Powerlifting (Bench Press, Squat and Deadlift)