

Jingbo Yang

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EDUCATIONAL BACKGROUND

- Beijing University of Posts and Telecommunications (BUPT)** 09/2018 - 06/2022
Bachelor's Degree of Management, Major: e-Commerce Engineering with Law
- Queen Mary University of London (QMUL)** 09/2018 - 06/2022
Bachelor's Degree of Science in Engineering, Major: e-Commerce Engineering with Law
Cumulative GPA: 90/100 Ranking: 5/184

RESEARCH

- An improved Neural Network Model based on Visual Attention Mechanism for Object Detection** 03/2021 -08/2021
Dept. of Electronic Engineering, Tsinghua University *Advisor: Prof. Yi Yang*
- Assisted the project team to present an improved CornerNet structure with soft-attention mechanism; increased the attention weight in the upper left and lower right corner prediction regions of the hourglass model; visually compensated in occlusion or weak light condition.
 - Validated results on the MS COCO dataset and demonstrated that the improved network structure has a further speed improvement over the two classic networks by 21.6%.

- Application of Gait Recognition in Person re-identification** 01/2020 - 08/2020
Dept. of Electronic Engineering, Tsinghua University *Advisor: Prof. Yi Yang*
- Conducted analysis and modeling to the gait recognition problem from cross view.
 - Implemented recurrence of an end-to-end model of SOTA based on Siamese network as baseline model.
 - Added residual module to improve the model, and trained on CASIA-B data set, and evaluated the results.

- Face Recognition Method Based on an Improved Residual Neural Networks** 07/2019 -12/2019
Dept. of Electronic Engineering, Tsinghua University *Advisor: Prof. Yi Yang*
- Assisted the project team to design a face recognition method based on a novel residual neural network, which randomly discarded certain parameters of some layers in Residual neural networks and increased the width of the residual block during training.
 - Trained and tested the method on a standard face classification recognition database and had good results on the closed subset; improved the calculation accuracy and speed by 9.1%.

PROJECTS EXPERIENCE

- Artificial Intelligence and Machine Learning (online course by National University of Singapore)** 07/2021 - 08/2021
- Advanced machine learning knowledge by studying depth neural network and convolutional neural network.
 - Implemented an LSTE model to predict population changes based on demographics data from Singapore governments.
- Machine Learning and Its Application (online course by MIT)** 01/2021 - 02/2021
- Received hands-on training in the application of deep learning and machine vision in course projects.
 - Received practicum experience through a 3D reconstruction project that used deep learning in machine vision.

INTERNSHIP

- Siemens Industry Software - Beijing, China** 07/2021 - 09/2021
Application Development Engineer
- Utilized Mendix, a low-code framework, to develop a closed-loop app for welding quality control at Siemens.
 - Implemented a series of algorithms and datasets to allow the application to analyze and ensure welding quality: K-means algorithm, accumulated welding parameter database, quality database, and real-time data feed from the welding robot.
 - Optimized the welding robot's parameters to continuously improve the consistency of the welding quality.

AWARDS & HONORS

Academic Year Comprehensive Ranking Scholarship, International School of BUPT, 2018-2019, 2019-2020, 2020-2021
Merit Student, BUPT
Outstanding Secretary of Student Union, International College of BUPT

LEADERSHIP

- Ambassador*, Public Communication Office, Beijing AngelMom Charity Foundation - Beijing, China 07/2019 - 07/2021
Core Member, Korean Club - BUPT 06/2019 - 06/2021
Secretary, Student Union of International School - BUPT 09/2018 - 09/2019

PROFESSIONAL SKILLS Programming Languages: C/C++, Java, Javascript, Python, Matlab

Web development: PHP, JavaScript, CSS, HTML

Platform/Tools: GNU/Linux (Ubuntu, Debian, CentOS), MySQL, OpenGL, Eclipse, Xcode