

Lin ZHANG

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EDUCATION

Carnegie Mellon University --- Robotics Institute *(expected) Jan 2021 – May 2022*

Master of Science in Computer Vision | Pittsburgh, PA

The Hong Kong University of Science and Technology *Sept 2016 – June 2020*

Bachelor of Science in Computer Science & Mathematics | Hong Kong | GPA 3.96/4.3

- Coursework: Computer Graphics | Honors Object Oriented Programming and Data Structure

ETH Zurich *Sept 2018 - Feb 2019*

Undergraduate Exchange | Zurich, Switzerland

- Coursework: Advanced Machine Learning | Computer Vision | Data Mining | Artificial Intelligence

PROFESSIONAL EXPERIENCE

Software Internship in MEGVII Video Group Detection Sub-group *Jan. 2020 – April. 2020*

Computer Vision | Beijing MEGVII

- Implemented cascade model for anchor-free one-stage object detector, achieved 0.736 mAP on private human detection dataset (Vanilla FCOS 0.713)

RESEARCH EXPERIENCE

One-Shot Object Detection without Finetuning *Sept. 2019 - Nov. 2019*

Computer Vision | Prof. Chi-Keung Tang & Prof. Yu-Wing Tai | HKUST

- Designed a two-stage finetuning-free one-shot object detection model based on FCOS and novel training strategies, surpassed previous SOTA by 12.1 mAP points on PASCAL VOC 2007 dataset

Deep Video Interpolation and Extrapolation *Feb. 2019 - Sept. 2019*

Computer Vision | Prof. Chi-Keung Tang & Prof. Yu-Wing Tai | HKUST

- Proposed tracking-based foreground-background separation generation strategy to improve video consistency, interpolated and extrapolated video frames within 1s interval on Cityscape

PROJECTS

Machine Learning for Building AI Teaching Assistants *June. 2018 - Aug. 2018*

Natural Language Processing | Prof. Dit-Yan YEUNG | HKUST

- Built bidirectional sequential deep learning models for detecting duplicate questions, achieved 85.89% accuracy on Quora Question Pairs Dataset.

COMPETITIONS

The 12th NXP Cup Intelligent Car Racing Competition in South China Region *July. 2017*

Robotics | The 3rd Class Award in Balance Car Category | 64 teams

- Implemented PID controllers and complementary filtering on gyroscope and accelerometer to control robot motion.

The 8th Robot Design Contest in HKUST *Nov. 2016*

Robotics | 1st Runner Up & Most Cost-Effective Award | 123 participants

- Designed camera algorithms and Bluetooth controlling programs for robots.

HONORS & AWARDS

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| • HKSAR Government Scholarship | 2016 - 2020 |
| • Lee Hysan Foundation Exchange Scholarships | 2019 |
| • Kerry Holdings Limited Scholarship | 2016 - 2020 |
| • Dean's List | 2016 - 2018 |

SKILLS

- Programming Languages: Python, C++, Java, Javascript
- Toolkits: PyTorch, TensorFlow, Android, OpenGL, Spark
- Language: English (Fluent), Mandarin (Native)