Kefeng Huang

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London, UK

Education

University College London — **London, UK**
Master of Engineering in Computer Science — 09/2019 — Present
UCL Chinese Debate Team member — 10/2020 — Present

Nanjing Dongshan Foreign Language School — **Nanjing, China**
A-Level 4 A* (Mathematics, Further Mathematics, Chemistry, Physics) — 09/2017 — 06/2019
IELTS 7.5 — 07/2018
Gold Award in UK Chemistry Olympiad — 03/2019

Research Experience

Robotic System for Identifying and Watering House Plants — **10/2021 — Present**
Supervised by Prof. Simon Julier at University College London

- **Technology**: The robot is simulated over ROS and python is the main programming language.
- **Team Work**: We worked together as a team of 6 people, with different people working on different aspects including SLAM, Control, Path Planning and etc. Each person will implement the corresponding nodes in ROS and information is transferred using technics including Topics.
- **Personal Contribution**: I am responsible for the object detection and plant identification. A 3-month literature review is first conducted on detection and segmentation methods as well as the plant identification networks. Currently I am implementing the YOLOv3 nodes which takes the images as input and return detected objects and their bounding boxes.

Image Based Point Cloud Segmentation — **08/2021 — Present**
Guided by PhD student Henry at University of Oxford

- **Technology**: Experiments are run over KITTI-Odometry dataset as it contains both images and point cloud in each frame. SemanticKITTI is also used to provide the labels. Python is the main programming language as well as Pytorch to train the network. Nvidia Segmentation (DeepV3WPlus) is adapted to extract features from images.
- **Description**: Each 3D point is first projected to images within the same frame and the frames before. It is first implemented to choose the mode of the labels of the same point on different images. Then it is improved by making predictions using the features of the images instead. A network is trained on a new dataset that combines the actual point label and the corresponding images features.

Technical Experience

ROLE / PROJECT A — **MMM YYYY — Present**
company A — *somewhere, state*

- Lorem ipsum dolor sit amet, consectetur adipiscing elit.
- Suspendisse pretium elit quis ullamcorper ultricies.
- Morbi a nisl sit amet massa ultricies fermentum.
- Sed a diam et turpis tempor venenatis eget eget ipsum.
- Vestibulum fermentum justo vitae aliquet accumsan.

ROLE / PROJECT B — **MMM YYYY — MMM YYYY**
company B — *somewhere, state*

- Aenean semper felis et viverra eleifend.
- Integer aliquam odio id tellus sollicitudin, ut pellentesque elit blandit.
- Vestibulum iaculis quam ac nibh tincidunt rutrum.

ROLE / PROJECT C — **MMM YYYY — MMM YYYY**
company C — *somewhere, state*

- Donec volutpat turpis et placerat pharetra.
- Sed sit amet sem facilisis, scelerisque lectus aliquam, accumsan purus.
- Aliquam at urna congue dolor luctus sodales.
- Quisque vitae tortor at elit tincidunt molestie sed ac quam.

ROLE / PROJECT D — **MMM YYYY — MMM YYYY**
company D — *somewhere, state*

- Vestibulum accumsan massa quis dignissim faucibus.
- Maecenas suscipit mi ut ullamcorper pharetra.
- In vitae ligula tristique, iaculis tortor in, egestas magna.
- In fringilla purus malesuada lectus imperdiet pulvinar.

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Activities

Graduate Student Council Representative	YYYY — YYYY
Academic Student Association: Some Workshop, Creator/Facilitator	Fall YYYY
City Symposium Series, University of Motherland, Poster Presenter	Fall YYYY
College of Science and Engineering Student Project Showcase, Research Presenter	Spring YYYY
Graduate Research and Creative Works Showcase, State University, Research Presenter	Spring YYYY
Some Coding Sprint, University of Some Other State	Spring YYYY

Skills

Programming Languages	Python, C, Java, Dart(Flutter), x86-Assembly
Communication	Chinese, English