

Yuwen Heng, PhD

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🏛 Education

University of Southampton <i>Doctor of Philosophy in Computer Science, Vision, Learning and Control Research Group</i>	Southampton, UK 2021–2024
University of Edinburgh <i>Master of Science in Data Science, Distinction degree</i>	Edinburgh, UK 2020–2021
University of Edinburgh <i>Bachelor of Engineering with Honours in Electronics and Electrical Engineering, Second Class, Division 1 degree</i>	Edinburgh, UK 2015–2017
North China Electric Power University <i>Bachelor of Engineering in Electrical Engineering and its Automation, GPA: 3.36</i>	Beijing, China 2013–2015

📁 Experience

🐼 Baidu <i>Internship in Autonomous Driving Simulation</i>	Shanghai, China Dec 2021–Now
<ul style="list-style-type: none">– Constructed an autonomous driving (AD) platform based on the open-source simulator Carla and visualisation tool CarlaViz.– Decoupled the AD algorithm from the simulator via Robot Operating System (ROS) communication tools.– Implemented the perception algorithms (including drivable area segmentation, lane line detection, traffic object detection, pedestrian intention prediction <i>et al.</i>) with the OpenMMLab framework.– Deployed simulation project and managed server resources with Docker.	

📖 Publications

- Yuwen Heng, Yihong Wu, Hansung Kim, and Srinandan Dasmahapatra. Cam-segnet: A context-aware dense material segmentation network for sparsely labelled datasets. In *17th International Conference on Computer Vision Theory and Applications (VISAPP)*, volume 5, pages 190–201, 2022 [🔗](#) [📄](#)
- Alawadh Mona, Wu Yihong, Heng Yuwen, Niranjana Mahesan, and Kim Hansung. Room acoustic properties estimation from a single 360° photo. In *2022 30th European Signal Processing Conference (EUSIPCO)*. IEEE, 2022
- Yihong Wu, Yuwen Heng, Mahesan Niranjana, and Hansung Kim. Depth estimation from a single omnidirectional image using domain adaptation. In *European Conference on Visual Media Production (CVMP)*, pages 1–9, 2021 [🔗](#) [📄](#)

📄 Patents

- Chen Kefeng, Li Shuowei, and Heng Yuwen. Head-mounted display device, 201830088225.6, 2018
- Chen Kefeng, Li Shuowei, and Heng Yuwen. Head-mounted display device, 201721775211.8, 2017
- Chen Kefeng, Li Shuowei, and Heng Yuwen. Head-mounted display device, 201711363613.1, 2017
- Li Shuowei and Heng Yuwen. Portable multi-functional intelligence comb, 201621143067.1, 2016

🏆 Awards

Overseas Students Pioneer Competition; Creative Returnees Team	2017
2nd iCAN HongGuTan Cup VR/AR Innovation & Entrepreneurship Competition; Winning Team	2017
Hangzhou Overseas Returnees Innovation & Entrepreneurship Competition; Outstanding Young Returnees	2016

