

# YANG Manling

## Education

Chongqing University	Chongqing, China
B.Eng. in Electronic Information Engineering	9/2019 - 6/2023
Honor: Comprehensive Scholarship (2nd Class), Chongqing University, 9/2022	
Comprehensive Scholarship (3rd Class), Chongqing University, 3/2023	
Exchange Program Scholarship, Chongqing University, 8/2021	
Hong Kong University of Science and Technology (Guangzhou)	Guangzhou, China
MPhil in Computational Media and Arts	9/2023 - Expected 6/2025

## Publication

**Yang, M.L.**, Li, X.H., Liu, J.W., Wang, S., & Liu, Li. (2022). A Survey of Computer Vision-based Fall Detection and Technology Perspectives. *Chinese Conference on Computer Supported Cooperative Work and Social Computing (Chinese CSCW 2022)*.

## Research Experience

<b>Fall Detection Device based on Video Stream</b>	4/2022 - 5/2023
- Sponsored by a grant from the National Natural Science Foundation of China	
- IoT Body Sensing Big Data Lab, Chongqing University   Prof. LIU, Li	
<ul style="list-style-type: none"><li>Wrote a research report as part of the paper in submitting</li><li>Improved the detection accuracy and speed by introducing causality as a characteristic of the detection system</li><li>Scheduled a conference presentation in September 2022</li></ul>	
<b>Image-based Cable Cross-sectional Parameter Measurement System</b>	5/2021 - 5/2022
- Research Training Program for University Students   Advisor: Prof. HUANG, Yangfan	
<ul style="list-style-type: none"><li>Programmed the measurement module of cable insulation thickness and eccentricity, using Python</li><li>Designed and built a portable hardware system</li></ul>	
<b>Cambridge AI+ Program</b>	7/2021 - 8/2021
- Electronics & Information Engineering Pathway Program   Advisor: Prof. Andrew Flewitt	
<ul style="list-style-type: none"><li>Conducted preliminary research and reproduced the simulation results in the thesis "UAV forest fire monitoring system based on artificial intelligence method"</li><li>Achieved reducing power consumption, and computing speed, and optimizing volume and weight, through hardware design improvement</li><li>Cooperated with the team to implement a system including hardware and software</li></ul>	

## Teaching Experience

TA for the course Digital Electronic Technology	9/2022 - 1/2023
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## Working Experience

RA in Hong Kong University of Science and Technology (Guangzhou)	6/2023 - 8/2023
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## Activity

<b>Formula Racing Team</b> , Chongqing University	11/2019 - 12/2022
- Head of Electrical Department-Tram Team (Season 2023), Member of Electrical Department-Line Team (Season 2021), Member of Marketing Team (Season 2020)	
Awards: 2 <sup>nd</sup> Place, Second-prize, Third-prize (3 times) in Formula Student Electric China	