Manling YANG

manlingyang.org | myang838@connect.hkust-gz.edu.cn

Research Interests

I have keen interest in data visualization and human-computer interaction, working with researchers from different fields or interacting with users of different backgrounds makes me feel passionate.

Specifically, my research interests include:

- Empirical study in understanding user behaviors.
- Investigate impacts of visual designs on perception and cognition.
- Discovery design patterns to enhance productivity.

Education

The Hong Kong University of Science and Technology (Guangzhou)

MPhil student of Computational Media and Arts   Sep. 2023 – Present

Mentors: Prof. Wei Zeng, Prof. Luwen Yu

Chongqing University

B.Eng. in Electronic Information Engineering   Sep. 2019 – Jun. 2023

Mentors: Prof. Jinglan Ou, Prof. Li Liu

Honors and Scholarships

Comprehensive Scholarship (2nd Class), Chongqing University	9/2022
Comprehensive Scholarship (3rd Class), Chongqing University	3/2023
Exchange Program Scholarship, Chongqing University	8/2021

Publications

C2Ideas: Supporting Creative Interior Color Design Ideation with Large Language Model

Yihan Hou, **Manling Yang**, Hao Cui, Lei Wang, Jie Xu, and Wei Zeng.

Proceedings of The ACM CHI Conference on Human Factors in Computing Systems, 2024. Accepted.

A Survey of Computer Vision-Based Fall Detection and Technology Perspectives

Manling Yang, Xiaohu Li, Jiawei Liu, Shu Wang, and Li Liu.

CCF Conference on Computer Supported Cooperative Work and Social Computing (ChineseCSCW 2022).

Research Experience

IOT & MOTION BIGDATA LAB

Mentors: Prof. Li Liu (Chongqing University)   Apr. 2022 – Jun. 2023

Research focuses on how to use computer vision and other related techniques combined with causal learning to improve elderly fall detection.

Image-based Cable Cross-sectional Parameter Measurement System

Mentors: Prof. Yangfan Huang (Chongqing University)   May. 2021 – May. 2022

Research training project, with students in the same major to develop a portable vision-based automated cable quality inspection.

Teaching

Teaching Assistant, Digital Electronic Technology   Fall 2022

Experience	School of Microelectronics and Communication Engineering, Chongqing University
	Main work: exercise class lectures, homework corrections, etc.
Work Experience	**Research Assitant in CIVAL Lab** Jun. 2023 – Aug. 2023
	The Hong Kong University of Science and Technology (Guangzhou)
	Assisted with CHI2024's submission, including data collection and statistics, execution and analysis of user study, etc.
Skills	Programming: Python, MATLAB, Latex.
	Software: Figma, Illustrator.
	Computing: PyTorch, Tensorflow, Sklearn, Numpy, Pandas, etc.
Service	Student Volunteer, VINCI 2023 Sep. 2023