

# Manling YANG

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<b>Research interests</b>	I have keen interest in empirical study 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: <ul style="list-style-type: none"><li>• Cognition and perception, how different visual designs affect user behavior.</li><li>• Discovery methods to help designers improve creativity and productivity.</li></ul>	
<b>Education</b>	<b>The Hongkong University of Science And Technology (Guangzhou)</b>	
	MPhil student of Computational Media and Arts	Sep. 2023 – Present
	Mentors: Prof. Wei Zeng, Prof. Luwen Yu	
	<b>Chongqing University</b>	
	B.Eng. in Electronic Information Engineering	Sep. 2019 – Jun. 2023
	Mentors: Prof. Jinglan Ou, Prof. Li Liu	
<b>Honors and scholarships</b>	Comprehensive Scholarship (2nd Class), Chongqing University	9/2022
	Comprehensive Scholarship (3rd Class), Chongqing University	3/2023
	Exchange Program Scholarship, Chongqing University	8/2021
<b>Publications</b>	<b>Dashboard Vision: Using Eye-Tracking to Understand and Predict Dashboard Viewing Behaviors</b>	
	Manling Yang, Yihan Hou, Ling Li, Remco Chang, and Wei Zeng. <i>in submission</i>	
	<b>FinFlier: Automating Graphical Overlays for Financial Visualizations with Knowledge-Grounding Large Language Model</b>	
	Jianing Hao, Manling Yang, Qing Shi, Yuzhe Jiang, Guang Zhang, Wei Zeng. <i>in submission</i>	
	<b>C2Ideas: Supporting Creative Interior Color Design Ideation with Large Language Model</b>	
	Yihan Hou, Manling Yang, Hao Cui, Lei Wang, Jie Xu, and Wei Zeng . <i>Proceedings of The ACM CHI Conference on Human Factors in Computing Systems, 2024. Accepted.</i>	
<b>Research experience</b>	<b>A Survey of Computer Vision-Based Fall Detection and Technology Perspectives</b>	
	Manling Yang, Xiaohu Li, Jiawei Liu, Shu Wang, and Li Liu. <i>CCF Conference on Computer Supported Cooperative Work and Social Computing (ChineseCSCW 2022).</i>	
	<b>IOT &amp; MOTION BIGDATA LAB</b>	
	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  
experience**

**Teaching assistant, Digital Electronic Technology**      Fall 2022  
School of Microelectronics and Communication Engineering, Chongqing University

Main work: exercise class lectures, homework corrections, etc.

*Average student rating: 4.71/5.*

**Work  
experience**

**Research Assitant in CIVAL Lab**      Jun. 2023 – Aug. 2023

The Hongkong 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**

Programming: Python, MATLAB, Latex.

Software: Figma, Illustrator.

Computing: PyTorch, Tensorflow, Sklearn, Numpy, Pandas, etc.

**Service**

Student Volunteer, VINCI 2023

Sep. 2023.