

Manling YANG

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- 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:
- Understanding human behavior through different empirical study methods.
 - Modeling human interaction with visual representation using computational techniques.
 - Exploring visual design guidelines for improving user engagement and effective information conservation.
- Education** **Hong Kong University of Science and Technology (Guangzhou)** Sep. 2023 – Present
MPhil student of Computational Media and Arts
Mentors: Prof. Wei Zeng, Prof. Luwen Yu
- Chongqing University** Sep. 2019 – Jun. 2023
B.Eng. in Electronic Information Engineering
Mentors: Prof. Jinglan Ou, Prof. Li Liu
- Publications** **C2Ideas: Supporting Creative Interior Color Design Ideation with Large Language Model C2**
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 (CHI), 2024.
- A Survey of Computer Vision-Based Fall Detection and Technology Perspectives C1**
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** **Tufts University** Advised by Prof. [Remco Chang](#)
Visual Analytics Laboratory Dec. 2023 – present
- Led an eye-tracking study involving over 60 participants, constructing the corresponding dataset.
 - Analyzed and recovered human viewing behaviors on dashboard objects and layout designs.
 - Developed a saliency model with innovative structure integrates both elements and layout information.
- Hong Kong University of Science and Technology** Advised by Prof. [Wei Zeng](#)
Collaborative Interactive Visualization & Analysis Lab Sep. 2022 – present
- Surveyed graphic overlay patterns and the interplay between visuals and text in financial visualizations.
 - Contributed to the development of a creative interior color design tool powered by an intent-aligned, domain-specific large language model. [C2](#)
- Chongqing University** Advised by Prof. [Li Liu](#)
IOT & Motion Big Data Lab Apr. 2022 – Jun. 2023
- Participated the research of human fall detection using causal learning from time-series data.
 - Conducted a survey on human fall detection based on computer vision techniques. [C1](#)
- Teaching Experience** **Teaching Assistant** Fall 2022
School of Microelectronics and Communication Engineering, Chongqing University
Course name: Digital Electronic Technology
- Scholarship** Comprehensive Scholarship (2nd Class), Chongqing University 9/2022
Comprehensive Scholarship (3rd Class), Chongqing University 3/2023

Exchange Program Scholarship, Chongqing University

8/2021

Service

Student Volunteer, VINCI 2023

Sep. 2023

Skills

Programming: Python, MATLAB, Latex.

Software: Figma, Illustrator.

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