

ZHUOYI CHENG

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Research Interests

My current research delves into supporting better human-AI collaboration in the design process. I'm interested in topics related to Human-AI Collaboration, Computer-Supported Cooperative Work (CSCW), Computer-Supported Collaborative Learning (CSCL), and Adaptive Agent.

Education

Zhejiang University *College of Software Technology* Sep 2022 – Present

Master of Mechanical Engineering-Industrial Design Engineering

Advisor: Lingyun Sun

Zhejiang University *College of Computer Science and Technology* Sep 2018 – Jun 2022

Bachelor of Engineering in Industrial Design

GPA: 3.87/4.0

Publications & Manuscripts

Journal Papers

J1 **HierVid: Lowering the Barriers to Entry of Interactive Video Making with a Hierarchical Authoring System**

International Journal of Human-Computer Interaction, Volume 40, 2024 – Issue 22

Weitao You, **Zhuoyi Cheng**, Zirui Ma, Guang Yang, Zhibin Zhou and Lingyun Sun

Conference Papers

C1 **EcoSprout: A Smart Modular Toy for Engaging Children in AFNR Education**

2024 17th International Symposium on Computational Intelligence and Design (ISCID), to appear

Xini Wu, **Zhuoyi Cheng**, Zihao Wang, Xuan Duan, Mingyan Wang, Yuge Qi and Ning Zou

Manuscripts

M1 **An Exploratory Study on How AI's Awareness Impacts Human-AI Collaboration in Product Design**

IUI 2025, conditionally accepted

Zhuoyi Cheng, Pei Chen, Wenzheng Song, Hongbo Zhang, Zhuoshu Li and Lingyun Sun

M2 **CoExploreDS: Framing and Advancing Collaborative Design Space Exploration Between Human and AI**

Under review, submitted to *CHI 2025*

Pei Chen, Jiayi Yao, **Zhuoyi Cheng**, Yichen Cai, Jiayang Li, Weitao You and Lingyun Sun

M3 **Now You Know Me: Exploring the Adaptation and Application of Workspace Awareness Framework in Human-AI Design Collaboration**

Under review, submitted to *International Journal of Human-Computer Studies*

Zhuoyi Cheng, Pei Chen, Jiayi Yao and Lingyun Sun

Patent

P1 **Large Model-based Unified Expression and Reasoning Method of Multimodal Design Information**
Patent No.: ZL 2024 1 0734774.0, filed Aug 23, 2024
Pei Chen, Wenzheng Song, **Zhuoyi Cheng**, and Lingyun Sun

Experience

Undergraduate Intern	<i>Jun 2021 – May 2022</i>
Advisor: Kejun Zhang	NEXT Lab
Compilation Team: <i>Fundamentals of Information Product Design</i>	<i>Aug 2020 – Nov 2020</i>
Team leaders: Lingyun Sun and Weitao You	IDI

Honors & Awards

Outstanding Master Student	<i>College of Software Technology</i>	2024
Excellent Academic Scholarship	<i>College of Software Technology</i>	2023, 2024
Outstanding Undergraduate Thesis Award	<i>College of Computer Science and Technology</i>	2022
Academic Scholarship	<i>Zhejiang University</i>	2019
Fellowship for Academic Performance	<i>Zhejiang University</i>	2019
Fellowship for Social Service	<i>Zhejiang University</i>	2019

Academic Service

Reviewer	
CHI 2025 Papers	<i>Oct 2024</i>
IUI 2025 Papers	<i>Nov 2024</i>