

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

Thesis: Research on the Construction and Application of Workspace Awareness Framework in Human-AI Collaborative Design

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

C3 **CoExploreDS: Framing and Advancing Collaborative Design Space Exploration Between Human and AI**

CHI 2025, conditionally accepted

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

C2 **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

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

M2 Transitioning Focus: Viewing Human–AI Collaboration as Mixed–focus Collaboration

CHI 2025 Late Breaking Work, under review

Zhuoyi Cheng, Pei Chen, Yiwen Ren, Wenzheng Song and Lingyun Sun

M1 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	Jun 2021 – May 2022
Advisor: Kejun Zhang	NEXT Lab
Compilation Team: <i>Fundamentals of Information Product Design</i>	Aug 2020 – Nov 2020
Team leaders: Lingyun Sun and Weitao You	IDI

Honors & Awards

Special Recognitions for Outstanding Reviews	ACM, IUI	2025
Outstanding Master Student	College of Software Technology	2024
Excellent Academic Scholarship	College of Software Technology	2023, 2024
Outstanding Undergraduate Thesis Award	College of Computer Science and Technology	2022
Academic Scholarship	Zhejiang University	2019
Fellowship for Academic Performance	Zhejiang University	2019
Fellowship for Social Service	Zhejiang University	2019

Academic Service

Reviewer	
CHI 2025 Late Breaking Work	Jan 2025
IUI 2025 Papers	Nov 2024
CHI 2025 Papers	Oct 2024