Hongbo ZHANG

hongbozhang@zju.edu.cn   hongbooo@outlook.com

HCI

■ EDUCATION

Zhejiang University | College of Computer Science and Technology | **Ph.D.** Candidate of Design Science   Mar 2023-Jun 2025

Zhejiang University | College of Computer Science and Technology | **MD** of Design Science   Sep 2020-Mar 2023

North China Electric Power University | College of Mechanical Engineering | **BD** of Industrial Design   Sep 2016-Jun 2020

■ RESEARCH INTEREST

Natural Human-computer Interaction

Explore natural and direct human-computer interaction modes, including body-based interaction, multi-sensory interaction, XR interaction and so on. Improve the user experience, efficiency, and intuition through interaction mode innovation.

Elicitation and Evaluation of Hand-based Interaction Language for 3D Conceptual Design in Mixed Reality Journal   2023
International Journal of Human-Computer Studies (**IJHCS**) | First student author (Published)

Effect of Gesture Type and Operating Configuration on Performance, Physiological Load, and Subjective Evaluation Journal   2022
International Journal of Human-Computer Interaction (**IJHCI**) | First student author (Published)

Designing a Smart VR Painting System with Multisensory Interaction for Immersive Experience Conference   2023
IEEE Virtual Reality (VR) Conference (**IEEE VR**) | Second student author (Published)

Human-AI Collaborative Interaction & Human-AI Co-creation

Explore the mechanism of Human-AI communication and cooperation. Focus on the role, cooperation mode, and contribution type of AI agent in the co-creation process. Develop the co-creation system and establish the shared mental model between human and AI agent.

A Hybrid Prototype Method Combining Physical Models and Generative Artificial Intelligence to Support Creativity Journal   2023
ACM Transactions on Computer-Human Interaction (**TOCHI**) | First author (Under Review)

Exploring the Role of Mixed Reality on Design Representations to Enhance User-involved Co-design Communication Conference   2023
ACM Computer-Supported Cooperative Work (**CSCW**) | Second student author (Under Review)

ProtoDreamer: A mixed-prototype Tool to Support Rapid Industrial Conceptual Design   2024
Target Conference: UIST 2024

See my summarized research direction and research plan in details

■ INTERNSHIP EXPERIENCE

Tencent Group | Tencent Cloud | Big Data Product Center | User Experience Designer | for 14 months   May 2022-Jun 2023

Tik Tok Group | Cloud Product Center | User Experience Designer | for 5 months   Feb 2021-Jun 2021

Alibaba Group | Alipay Design Center | User Experience Designer | for 4 months   Sep 2020-Dec 2020

■ DESIGN DOMAIN & PROJECT

User Experience Design | User Interface Design | Industrial Design | Service Design | Speculative Design | Visual Design

See my design projects in My Portfolio

■ AWARD & HONOR

National Scholarship ×3   Granted Patents ×4   Excellent Graduated Student ×3   iF Design Talent Award   A Design Bronze Award