

Ke Zhou

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Education

University of Chongqing

Bachelor of Economics and Business in Finance (GPA: 91/100 rank: 6/38)

Sep 2021 – Jun 2024

Chongqing, China

Research Interest

Virtual/Augmented Reality, Human-Computer Interaction, Data Visualization, Human-Robot/AI Interaction

Research Experience

HCI Lab, Institute of Software, Chinese Academy of Science

Research Intern advised by Prof. Han Teng

Jan 2024 – Present

Beijing, China

- **Immersive telesurgery system considering different remapping relations in VR.** Designed and simulated an immersive telesurgery system and explored the remapping impact of spatial head-hand relations in VR telesurgery.
- **Optimized measurement method on evaluating transient physiological discomfort during VR locomotion.** Identified and evaluated three continuous measurement methods and expanded traditional measurement methods to evaluate transient physiological discomfort to optimize the VR experiences utilizing the measurement data.

VCCM VPI, TAMU

Research Intern advised by Prof. Wai Tong

Apr 2024 – Present

College Station, Texas/Remote

- **Affordance-Based system for Spatial Tangible Interaction.** Designed and evaluated an optimization function considering the physical constraints, affordance factors and user intention. Designed a system to apply the optimization function in AR environments to help users select optimized objects and digital functions for specific task.

Publication(* for equal contribution)

Exploring the Remapping Impact of Spatial Head-hand Relations in Immersive Telesurgery

Tianren Luo, Ke Zhou, Pengxiang Wang, Shuting Chang, Gaozhang Chen, Hechuan Zhang, Xiaohui Tan, Qi Wang, Teng Han, Feng Tian

Under review for ACM CHI'25

Handows: An Interactive Window Management System for Mixed Reality

Jin-Du Wang, Ke Zhou*, Xiang Li*, Haoyu Ren, Per Ola Kristensson, Zhongmin Cai

Major revision for ACM ISS'24

Continuous Measurement Methods for Transient Physiological Discomfort in VR Locomotion

Tianren Luo, Pengxiang Wang, Shuting Chang, Ke Zhou, Nianlong Li, Yulong Bian, Xiaohui Tan, Qi Wang, Teng Han, Feng Tian

Under review for ACM CHI'25

Projects

Handows – An Interactive Window Management System for Mixed Reality

VR/AR

- Integrated the basic functionalities of existing computing device window management systems into HandPad and provided tactile feedback from the user's hand area to provide stability for users' interaction behaviors
- Designed the HandPad, allowing users to choose, close, swap and scale the open windows by manipulating the HandPad

Technical Skills

Programming Languages: Python, Java, C#, Javascript, Matlab, HTML/CSS

Applied statistics and data analysis: R, Stata, python

Quantitative research methods

Game Engines: Unity