

Yifan Zhu

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School of Management Science and Real Estate (6<sup>th</sup> in China), Chongqing University, China

Academic Qualifications

**Master: Human–Computer Interaction (Ergonomic), Chongqing Univ.** **2022-current GPA:3.72/4**  
Thesis: Study on the optimization of natural interaction of walking navigation aids based on spatial information (Supervisor: Prof. Jia Zhou, Major: Management Science and Engineering)

**Bachelor: Industry Design, Chongqing Univ.** **2018-2022, GPA:3.53/4 (National Scholarships)**  
Thesis: Study on the influence of trace and boundary on human spatial cognitive in virtual reality (Supervisor: Jia Zhou, Grade: Excellent)

Journal Papers

**Zhu, Y.,** Liu, M., & Zhou, J. (2024). What Prevents Us from Learning Virtual Reality Space: A Study of Indoor Corridor Angle and Obstacle Transparency. *International Journal of Human–Computer Interaction*, 1–12 (JCR Q1)

**Zhu, Y.,** & Zhou, J. (Under review). Reading digital maps while walking in virtual reality environment: Improving pedestrian safety and level of natural interaction

**Zhu, Y.,** Cao, J., Zuo, Y., Liu, M., Sun, G., Zhou, J., An, N., et.al. (Under review). Denser Grid Patterns Correlate with More Precise Spatial Cognition

Conference Papers

**Zhu, Y.,** Li, X., Zhou, J., & Jiang, Y. (2023). The Association Between Academic Clickbait and Impact: From the Perspective of Online Media News., *HCI International 2023 – Late Breaking Papers* (pp. 454–469).

**Zhu, Y.,** Zuo, Y., Sun, G., & Zhou, J. (in press). Quantifying spatial ability through digital traces in mobile navigation games. *22nd Triennial Congress of the International Ergonomics Association 2024*.

Jiang, Y., Fan, S., **Zhu, Y.,** Wang, L., Ye, K., Zhou, J., Zhang, L., Wang, Z., Wu, L., & Rau, PLP. (in press). A Human-Centered Algorithmic Management Framework: A Literature Review. *HCI International 2024 – Late Breaking Papers*

Presentation

2022	2022 Tsinghua Industrial Engineering PhD Student Conference	Student Presenter
	《Routes matters during indoors navigation: A study of route trend and obstacle transparency》	

Patent

An assisted toilet based on cams and linkages	China Invention Patent Disclosure (CN 112205909 A)
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Han, D, Zhou, L., Zhu, K., Zhang, D., **Zhu, Y,** Dai, C., Zeng, Q.

Scholarships/Awards

2024	Chongqing University Advanced Individual in Academic Innovation (Top 5% in school)
2022, 2023	Chongqing University Postgraduate First-Class Academic Scholarship
2021	National Scholarship for the Undergraduate Student (Top 1% in University)
2020	9 <sup>th</sup> National University Mechanical Innovation Design Competition, First Prize (Top 3% in China)
2019,2020	Chongqing University Advanced Individuals in Innovation and Entrepreneurship (Top 5% in school)

Relevant Research Experience

2022-Current	<b>Research on Interactive Space Matching Mechanism and Efficiency Optimization</b> <i>National Natural Science Foundation of China (NSFC) General Project</i> <u>Main duties:</u> Conducted research on the association between grid cell patterns and human spatial cognition; Developed code for the quantification of grid cell patterning; 2 experiments were conducted and 117 people participated in the VR experiment.	Sub-topic Leader
2023-Current	<b>Research on human-centered algorithmic management in engineering management</b> <i>Neuro-ergonomics and Management Innovation Research Centre</i> <u>Main duties:</u> Participated in researching 136 articles to construct a conceptual framework; Participated in the evaluation of the research programmes as the support of the eye-tracking and VR.	
2023-Current	<b>A study of building ergonomics curriculum development</b> <i>National Elite Institute of Engineering (Chongqing Univ.) (only 18 in China), Curriculum Reform Project</i> <u>Main duties:</u> Led a 5-member team to develop a textbook on <Human Factors Ergonomics>; Responsible for Unity VR Development section and UX Maps section of the course; Designed course exams for 2 courses totaling 6 credits; Conducted a classroom experiment and presented 1 conference paper.	Sub-topic Leader
2023-Current	<b>Research on navigation optimization in the context of indoor-outdoor environmental transitions</b> <i>Chongqing Postgraduate Research and Innovation Fund Project 2023</i> <u>Main duties:</u> Conducted the indoor roads on spatial cognition and navigation optimization part of the study.	
2022-2023	<b>Research on mobile phone operating system aging specification</b> <i>OPPO MOBILE Telecommunications Corp., Ltd co-operation project</i> <u>Main duties:</u> Participated in the development of mobile phone operating system aging standards, responsible for aging text and screen size specifications.	
2020-2021	<b>Modular home smart table design</b> <i>The 5<sup>th</sup> Chongqing Student Research Training Program</i> <u>Main duties:</u> Led a 5-member team to complete user research, sample design, development, evaluation work, responsible for mechanical structure design, electronic control system design.	Project Leader

Teaching & Conferences Work

2024	<b>&lt;Ergonomics&gt; 2024 Spring</b> <i>National College of Excellence for Engineers (Chongqing Univ.)</i>	Course Assistant
2023, 2024	<b>&lt;Human Factor &amp; Ergonomics&gt; 2023 Autumn, 2024 Autumn</b> <i>College of Management Science and Real Estate (Chongqing Univ.)</i>	Course Assistant
2023	<b>Urban and Rural Human Factors Workshop</b> <i>College of Management Science and Real Estate (Chongqing Univ.)</i>	Conference Service
2023	<b>The 2nd Academic Conference of the AI Interaction and UX Branch of the Chinese Ergonomics Society (IIE&amp;IWC)</b> <i>Chinese Ergonomics Society (CES)</i> <u>Main duties:</u> Receipt and dispatch of manuscripts, preliminary review, organization of review by members of the Academic Committee, supervision of publication	Conference Service Manager

Work Experience

2020.07-08	<b>ARTOP Group Industrial Design Co.</b> <u>Main duties:</u> Joined the <Chongqing Dazu Long Shui Enterprise Gift Design> project team as a three-person team leader, organizing the team to output design proposal	Industrial Design Intern
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Skills

**Expertise:** Statistics, User Study, Persona, Usability Evaluation and Test, Survey Study, Experiment Design, UX/UI design,

**Related Skills:** Hardware microcontroller development (stm32, K60 et.al.), motor control, basic mechanical design, design hand drawing, application development

**Applications:** Unity, Keil, Photoshop, Illustrator, Blender, AutoCAD, UG, SPSS, MS office, Xd

**Coding:** Proficient in Matlab, Python, C (C++、C#), R; Familiar with Batch command, HTML