

ZHIJIE YI

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About

I possess both design and programming skills, excelling in the use of programming to enhance design processes and in developing innovative tools for designers and the broader public. Proficient in qualitative research methods, I hold a particular passion for usability in human-computer interaction. My focus lies in merging design and programming knowledge to create accessible, user-friendly tools that encourage wider participation in design and creative endeavors.

Fields of Interest

- Let AI better assist people in creative programming and design
- The gap between human thinking and computer workflow in CSCW and HCI
- AI for programming and design education
- Participatory design, human-centered design, accessible design

Education

Beijing Normal University

Master of design

09/2022 – 06/2025

Beijing, China

Hengyang Normal University

Bachelor of arts

09/2015 – 06/2019

Hengyang, China

Publications

Conference

[1] **Zhijie Yi**, Yueteng Yu, Xiang Chang, Xinyu Yang, Mengdi Chu, Junrong Lu, Yiyao Liu, Jingli Qin, Ye Jin, Jialin Song, Guyue Zhou* and Jiangtao Gong*. From Driver to Passenger: Understanding Evaluation Gaps in "Fantastic" Driving Behaviour Delivery. (CSCW'2024 Submitted)

Journal

[2] Chiju Chao, Yu Chen, Hongfei Wu, Wenxuan Wu, **Zhijie Yi**, Liang Xu and Zhiyong Fu*. An Emotional Design Model for Future Smart Product Based on Grounded Theory. *Systems*. 2023; 11(7):377. <https://doi.org/10.3390/systems11070377>

Research Experience

Autonomous driving human-computer interaction modeling and design innovation

06/2023 – 01/2024

Tsinghua University, Institute for AI Industry Research

Supervisor: Prof. Jiangtao Gong

- Background: This study focuses on exploring the gap between driver and passenger perception and driving behavior evaluation from multiple stakeholder perspectives, and provides suggestions and strategies for the design of driving systems in autonomous driving scenarios.
- Main work: Used thematic analysis to code over 90 hours of interview data, Screened more than 217 documents and wrote a review framework, Constructing thesis framework, Deriving interaction models, Write and revise the main content of the paper, Draw all figures for the paper, Video production.
- Result: A full paper of 12,000 words and submitted to CSCW2024.

Design Futures - Futurescaping generator Research

05/2023 – 11/2023

Tsinghua University Academy of Fine Arts

Supervisor: Prof. Zhiyong Fu

- Background: As an innovative anticipatory action, the focus of design is turning to a future-oriented perspective. In this direction, it is necessary to analyze culture, images, models and design paradigms to explore how AIGC technology can help people better Design for the future.
- Main work: Use actor network diagrams to visualize more than 40 speculative design cases, Build an AIGC generative design interaction framework, Use chatGPT, midjourney and other tools to simulate the generator prototype, Adjust prompt word parameters and usability testing.
- Result: A prototype generation tool that can be used to analyze existing design cases and then deduce its future design development trends and provide future design solutions (based on actor-network diagram and chatGPT).

Research on human-machine empathic interaction of intelligent products

10/2022 – 02/2023

Tsinghua University Academy of Fine Arts

Supervisor: Prof. Zhiyong Fu

- Background: This study explores whether intelligent assistants can improve the efficiency of group discussions and obtains design suggestions to create more efficient and practical tools for collaborative tasks.
- Main work: Use grounded theory to code user perception corpus of more than 70 smart products, Searched the literature and sorted out more than 20 product emotional models, Use the Wizard of Oz method to organize Organized 4 group experiments workshop. Design scales and questionnaires. Organize validation focus groups.
- Reward: Participate in a paper together and start to become interested in scientific research.

Industry Experience

Applify AI WritingPal

Intern UX Designer

06/2023 – 09/2023

Boston, MA(remote work)

- Main work: Product interaction design. User interface design. User usability testing

OPPO

UX Designer

05/2019 – 01/2020

Guangzhou China

- Main work: User study. Product interaction design. UI interface design. User usability testing.

Skills

Quantitative research: Experimental Design, Questionnaires and Surveys Development

Qualitative research: Usability Test, User Interview, Grounded theory, Wizard of Oz Method, Cultural probe

Languages: Java, JavaScript(HTML,CSS), Mandarin(native), English

Technical Tools: Processing, p5js, GitHub, Latex, Figma, Adobe tools

Service

Reviewer of ACM SIGCHI Conference on Human Factors in Computing Systems (CHI2024)

10/2023

Honors & Awards

The 2nd Academic Scholarship For Postgraduate

12/2023

The 3rd Prize, China Creative Challenge Contest

11/2023

The 3rd Prize, Global Service JAM 2023

03/2023

References

Jiangtao Gong | *Tsinghua University*

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Tiange Zhou | *Beijing Normal University*

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