Zhijie Yi

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About

I possess both design and programming skills, excelling in leveraging programming to create creative tools for designers and the public. Proficient in qualitative research methods, I am particularly passionate about usability in human-computer interaction. My focus is on integrating design and programming expertise to develop innovative, highly usable tools that enhance user experiences. My current research is on how to make LLM better help people in creative programming, especially improving the matching between prompts and programming logic to form a more systematic AI-assisted programming interaction paradigm.

Research Interests

- 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
- Design crowdsourcing, participatory design, decentralized design

Education

Beijing Normal University **09/2022 – 06/2025**
Master of design *Beijing, China*

Hengyang Normal University **09/2015 – 06/2019**
Bachelor of arts *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. Constructing thesis framework. Deriving interaction models. Thesis writing. Illustrations drawings. Video production.
- Result: A full paper of 12,000 words and submitted to CSCW2024.

Design Futures - Futurescaping generator Research Project **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: 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. Use actor network diagrams to visualize more than 40 speculative design cases.
- 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 – 2/2023**
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 the Wizard of Oz method to organize workshops. Design scales and questionnaires. Organize validation focus groups. Use grounded theory methods to code product data.
- Reward: Participated in thesis work, understood the whole process of experiments and research, had a solid grasp of qualitative research methods, and began to become interested in research.

Work Experience

Applify AI WritingPal **06/2023 – 09/2023**
UX Designer *Boston, MA(remote work)*

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

OPPO **05/2019 – 01/2020**
UX Designer *Guangzhou China*

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

Skills & Tools

Languages: Java, JavaScript, Mandarin(native), English
Technical Tools: Processing, p5js, GitHub, 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* **gongjiangtao@air.tsinghua.edu.cn**
Tiange Zhou | *Beijing Normal University* **zhoutiange@mail.bnu.edu.cn**