

Jian Luo

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Academic Homepage

RESEARCH INTERESTS

Human-Computer Interaction, Human-AI Alignment, Intent-Driven Generative User Interfaces, Generative Applications, and Mobile Interaction

EDUCATION

The Hong Kong University of Science and Technology (Guangzhou)

Guangzhou, China

MPhil Candidate, Information Hub, Internet of Things Thrust

Aug. 2025 – Present

Research focus: Human-Computer Interaction and Human-AI Alignment, with an emphasis on intent-driven generative user interfaces and mobile applications. GPA: 4.0/4.0

Tiangong University

Tianjin, China

B.A., Broadcasting and Television (New Media Creativity Track)

Sep. 2020 – Jun. 2024

Double First-Class Initiative university; ranked 2/80; Presidential Scholarship recipient.

RESEARCH EXPERIENCE

BerryPicker: Intent-Driven Generative Applications from Fragmented Inputs

Guangzhou, China

Second Contributor, Collaborative Research Project with Huawei Terminal, HKUST(GZ)

Sep. 2025 – Jan. 2026

- Investigated how end users can create and continuously evolve applications from fragmented materials such as screenshots, links, and notes, rather than from fully specified requirements.
- Contributed to the design of an interaction pipeline supporting fragment collection, AI-based semantic clustering and task inference, lightweight intent alignment, and application generation.
- Participated in system framing, interaction design, and study design for intent-driven generative applications in human-AI collaboration.

PEAR: Peer-Function Agents for Research Ideation

Guangzhou, China

Research Project, HKUST(GZ)

2026 – Present

- Explored the *criticality gap* in current AI research assistants, focusing on why they are often helpful yet insufficiently critical in early-stage research ideation.
- Designed PEAR, a multi-agent system that operationalizes peer functions into coordinated AI roles to support evidence-grounded critique, structured disagreement, and constructive reframing.
- Developed a research plan combining formative study and comparative evaluation to examine whether the system better surfaces novelty, method, and reviewer-facing risks during idea vetting and project shaping.

Proactive Health and Emotional Companionship for Middle-Aged and Older Adults

Guangzhou, China

Research Project Lead, School of Future Technology, HKUST(GZ)

2025 – Present

- Lead an interdisciplinary project exploring proactive health support and emotional companionship technologies for middle-aged and retired adults.
- Coordinate project scoping, interaction design, and prototype development across intelligent hardware, interface design, and user-facing system experience.
- Focus on age-friendly interaction design and the role of AI-mediated interfaces in supporting long-term well-being and everyday engagement.

Diminished Reality for Context-Aware Perceptual Regulation

Guangzhou, China

Research Project, HKUST(GZ)

2025 – Present

- Explore diminished reality as an HCI paradigm for selectively reducing visual information to support attention guidance, cognitive load reduction, and context-sensitive interaction.
- Develop the conceptual framing of diminished reality beyond technical object removal, with emphasis on perceptual regulation and user experience design.
- Contribute to scenario design, conceptual development, and empirical planning for future evaluation in immersive and interactive settings.

SELECTED HONORS & AWARDS

- RBM Full Scholarship, HKUST(GZ) (2025–2027; RMB 240,000 in total).
- Presidential Scholarship, Tiangong University.
- Outstanding Project Award, National College Student Innovation and Entrepreneurship Training Program (Project Lead): Social Inclusion Service Design for Children with Autism.
- Outstanding Project Award, Provincial College Student Innovation and Entrepreneurship Training Program (Project Lead): Online Digital Reading Museum Design for Dunhuang Mural Culture.
- Key Incubation Project, Innovation Space, Tiangong University (Project Lead): Ruyi Media Co., Ltd. (Tianjin).
- First Author, National Third Prize and Provincial First Prize, Engineering Challenge, 2022 RAICOM Robotics Developer Competition.
- National Silver Award, 2023 China International College Students' "Internet+" Innovation and Entrepreneurship Competition.
- National Excellence Awards (1) and Finalist Awards (2), 2023 Shanghai International College Students Advertising Festival; Best Finalist Work (1), 2023 Chuangyi Xingqiu Academy.
- Bronze Award, 2023 Contemporary Good Design Award, Mainland China Division.
- Two Silver Awards and Three Bronze Awards, 2023 London Chinese Art Exchange Exhibition Global Finals.

SELECTED SKILLS

Proficient: Interaction Design; UX Research; Design Prototyping; Figma; XR Design; Vibe Coding

Learning: Arduino Hardware Development; XR Development; Interactive Storytelling