Xiang Pan

(+86) 182-5889-9004 pan.xiang.7p@kyoto-u.ac.jp pan-xiang.github.io

Research Interests

My research lies at the intersection of human–robot interaction and embodied AI. I develop expressive robot manipulation strategies that make robot behavior more transparent, legible, and natural in human-shared environments. Currently, I study how robots can infer and respond to human intentions using large language models (LLMs), vision-language models (VLMs), and insights from psychology to enable socially appropriate interaction.

Employment

02/2026 – Present

Kyoto University – Kyoto, Japan
Postdoctoral Researcher
Supervisor: Prof. Takayuki Kanda

Education

04/2022 – 01/2026

Kyoto University – Kyoto, Japan
Ph.D. in Social Informatics
Supervisor: Prof. Takayuki Kanda

10/2020 – 08/2021

Northeast Normal University – Changchun, China
Japanese Language Studies

09/2017 – 06/2020

Zhejiang University – Hangzhou, China
M.S. in Instrument and Meter Engineering
Supervisor: Prof. Hong Zhou

09/2013 – 07/2017

Anhui University of Technology – Ma'anshan, China
B.S. in Electronic and Information Engineering
Supervisor: Prof. Bing Wang

Full Papers in Conference Proceedings

2026

Communicating Object Relations through Robot Gestures.
Xiang Pan*, Malcolm Doering, Takayuki Kanda. In Proceedings of the 2026 ACM/IEEE International Conference on Human-Robot Interaction.
CORE A*; acceptance rate: 23.2% (129/557).

2025

Communicating Physical Properties through Robot Object Manipulation.
Xiang Pan*, Malcolm Doering, Stela H. Seo, Takayuki Kanda. In Proceedings of the 2025 ACM/IEEE International Conference on Human-Robot Interaction.
CORE A*; acceptance rate: 25% (100/400).

2024

What Is Your Other Hand Doing, Robot? A Model of Behavior for Shopkeeper Robot's Idle Hand.
Xiang Pan*, Malcolm Doering, Takayuki Kanda. In Proceedings of the 2024 ACM/IEEE International Conference on Human-Robot Interaction.
CORE A*; acceptance rate: 24.7% (87/352).

2019 **Efficient Barcode Localization Method for Low-Quality Images.**
Xiang Pan, Dong Li, Weijia Wu, Hong Zhou. In Proceedings of the 2019 International Conference on Graphics and Signal Processing.

Invention Patents

2024 **High Voltage LED Chip Set, LED Light Source for Plant Light Supplementation and Illuminating Device.**
Xiang Pan, Xuke Li. US Patent (US12051677B2), Granted.

2023 **LED Light Source for Plant Light Supplementation and Lamp Comprising the Same.**
Xuke Li, **Xiang Pan**. European Patent (EP3767167B1), Granted.

2022 **LED Light Source for Supplemental Lighting for Plants and Lamp with Light Source.**
Xuke Li, **Xiang Pan**. US Patent (US11419278B2), Granted.

Teaching Experience

2025 **Information System Analysis**
Teaching Assistant

Academic Service

Organization

2026 Multi-Agentic Systems in HRI (MAgicS-HRI): Bridging Design and Real-World Challenges for End Users, ACM/IEEE International Conference on Human-Robot Interaction, Workshop Organizer

2026 MUSE: Multimodal Human Motion Understanding for Embodied and Interactive Intelligence, International Conference on Intelligent Robotics and Applications, Special Session Organizer

Journal Review

IEEE Robotics and Automation Letters (RA-L)

ACM Transactions on Human-Robot Interaction (THRI)

Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)

Conference Review

2025, 2026 ACM/IEEE International Conference on Human-Robot Interaction (HRI)

2023 ACM Conference on Human Factors in Computing Systems (CHI)

2025, 2026 ACM Conference on Designing Interactive Systems (DIS)

2025, 2026 ACM Interaction Design and Children Conference (IDC)

2025 IFIP TC13 International Conference on Human-Computer Interaction (INTERACT)

2025 IEEE World Haptics Conference (WHC)

2026	ACM Conference on Automotive User Interfaces and Interactive Vehicular Applications (AutoUI)
2024	IEEE International Conference on Robot and Human Interactive Communication (RO-MAN)
2024, 2026	International Conference on Human-Agent Interaction (HAI)

Student Volunteer

2022	IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)

Invited Talks

2025	**Communicating Object Relations through Robot Gestures.** Invited Speaker, Center for Digital Media Computation, Xiamen University
2024	**Communicating Physical Properties through Robot Object Manipulation.** Invited Speaker, Center for Digital Media Computation, Xiamen University

Selected Awards

2021	**Japanese Government (MEXT) Scholarship** Ministry of Education, Culture, Sports, Science and Technology
2020	**Excellent Postgraduate Student Award** Zhejiang University
2018	**Outstanding Graduate Student Leader Award** Zhejiang University
2017	**Outstanding Graduate Student Award** Anhui Province
2017	**Youth May Fourth Medal** Anhui University of Technology (highest undergraduate honor; 10 recipients university-wide)