

XIANGYU SU

PhD Candidate · Visual Computing Research Center · Shenzhen University

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XiangyuSu611



RESEARCH INTERESTS

My current research interests center on **Embodied Intelligence**, particularly task planning for digital humans in household scenarios, and for multi-robot systems on industrial production lines. I also have a research background in **Computer Graphics**, with a focus on material transfer from photographs to 3D models.

PUBLICATIONS

IMR-LLM: Industrial Multi-Robot Task Planning and Program Generation using Large Language Models ICRA 2026

Xiangyu Su, Juzhan Xu, Oliver van Kaick, Kai Xu, Ruizhen Hu

Human Activity Program Generation with Correction-by-Summarization Preprint 2025

Xiangyu Su, Jintian Lin, Juntao Jian, Hao Wang, Kai Xu, Ruizhen Hu

MTScan: Material Transfer from Partial Scans to CAD Models CVM 2025

Xiangyu Su, Sida Peng, Oliver van Kaick, Hui Huang, Ruizhen Hu

Photo-to-Shape Material Transfer for Diverse Structures ACM TOG / SIGGRAPH 2022

Ruizhen Hu, Xiangyu Su, Xiangkai Chen, Oliver van Kaick, Hui Huang

INTERNSHIP EXPERIENCE

SpeedBot Robotics Jun 2025 – Sep 2025

Focused on low-code automatic program generation for industrial robots.

Visual Computing Group, Tencent AI Lab Aug 2022 – Feb 2023

Focused on material transfer from real-world photographs to 3D models.

EDUCATION

Shenzhen University Sept 2023 – Present

Ph.D. in Computer Science and Technology

Lab: Visual Computing Research Center

Supervisor: Prof. Ruizhen Hu

Shenzhen University Sept 2020 – Jul 2023

M.Sc. in Computer Technology

Supervisor: Prof. Ruizhen Hu

AWARDS

Outstanding Innovative PhD Talent Scholarship

Nov 2025

Shenzhen University

Outstanding Student Scholarship

Nov 2022

Shenzhen University

Outstanding Student Scholarship

Nov 2021

Shenzhen University

PROFESSIONAL SKILLS

- **Harness engineering for LLM/VLM agents:** integrating memory, skills, and protocols
- **Vibe coding:** rapid prototyping with AI coding assistants (Claude Code, Cursor)
- **Programming languages:** Python, MATLAB, C/C++, Golang, Markdown, LaTeX
- **Languages:** Mandarin (native), English (fluent)