

SHUAI YANG

Email: yangshuai03_3996@zju.edu.cn | Phone: (+86) 130-0268-5674 | Scholar

🎓 EDUCATION

Zhejiang University (ZJU), Hangzhou, China

2021 – 2026 (expected)

- **Major:** Information Engineering (Shannon Excellence Class)
- **Elite Program:** Advanced Honor Class of Engineering Education, Chu Kochen Honors College
- **Academic Performance:** Major GPA: 92.02, Rank: 5/128 (Top 5%)
- **Research Interests:** Embodied AI, Vision-Language Models, Vision-Language-Action Models

👤 EXPERIENCE

(MANIPULATION: 🤖 MULTIMODAL: 😊)

1. Vision-Language-Action Instruction Tuning: From Understanding to Manipulation 🤖 2025

- Presenting the first VLA instruction tuning dataset and bench to facilitate language-steered manipulation.
- Introducing **InstructVLA**, which is capable of interactive manipulation with language reasoning abilities.

2. GenManip: A Simulator for Generalizable Tabletop Manipulation 🤖 (Accepted by CVPR) 2025
Gao Ning*, Yilun Chen*, **Shuai Yang***

- Building the first tabletop manipulation benchmark that focuses on reasoning in IsaacSim, and collecting large-scale, well-labeled 3D assets, including rigid and articulated objects.

3. Transferring Latent Motion Across Time for Multi-Frame Prediction in Manipulation 🤖 2025
Hao Li*, **Shuai Yang***

- Developing the first VLA model that utilizes temporal information for enhanced manipulation.

4. Grounded 3D-LLM with Referent Tokens 😊 2024
Yilun Chen*, **Shuai Yang***, Haifeng Huang*

- Presenting the first large-scale phrase level 3D scene-language correspondence dataset, facilitating contrastive language-scene pre-training and harmonizing inputs into a unified embedding space.
- Introducing the first generalist LLM for Grounded 3D Scene understanding.

5. MMScan 😊 (Accepted by NeurIPS 2024) 2023–2024
Ruiyuan Lyu*, Tai Wang*, Jingli Lin*, **Shuai Yang***

- Building the first largest multimodal 3D scene dataset and benchmark with hierarchical annotations.

6. Omni-Chart-600K 😊 (Accepted by NAACL 2025) 2025
Shulei Wang*, **Shuai Yang***, Wang Lin*

- Purposing a large-scale chart dataset that focuses on the diversity of the chart and the CoT understanding.

7. PointLLM V2 (Accepted by TPAMI 2025) 😊 2024
Runsen Xu*, **Shuai Yang***

- Enhancing the overall captioning and dialogue performance of PointLLM V1 while equipping it with part-referencing capabilities and embodied understanding.

Service

Reviewer: NeurIPS, ICLR

👤 INTERNSHIPS

- Research intern at ShangHai AI Lab -Open Robot Lab. (2024-2025)
- Research intern at CMU Safety AI Lab, focusing on developing safe autonomous driving agents. (2024)

👤 HONORS & AWARDS

- 2021-2022 Academic Year First-Class Scholarship, Zhejiang University (3%)
- 2023 Interdisciplinary Contest In Modeling Meritorious Winner (7%)
- 2022-2023 Academic Year Samsung Scholarship (5%)
- 2025 Excellent Bachelor's Thesis