



Visual & Geometric Intelligence Lab

Dept. of Computer Science Engineering
Seoul National University

Lab Website



Lab info.



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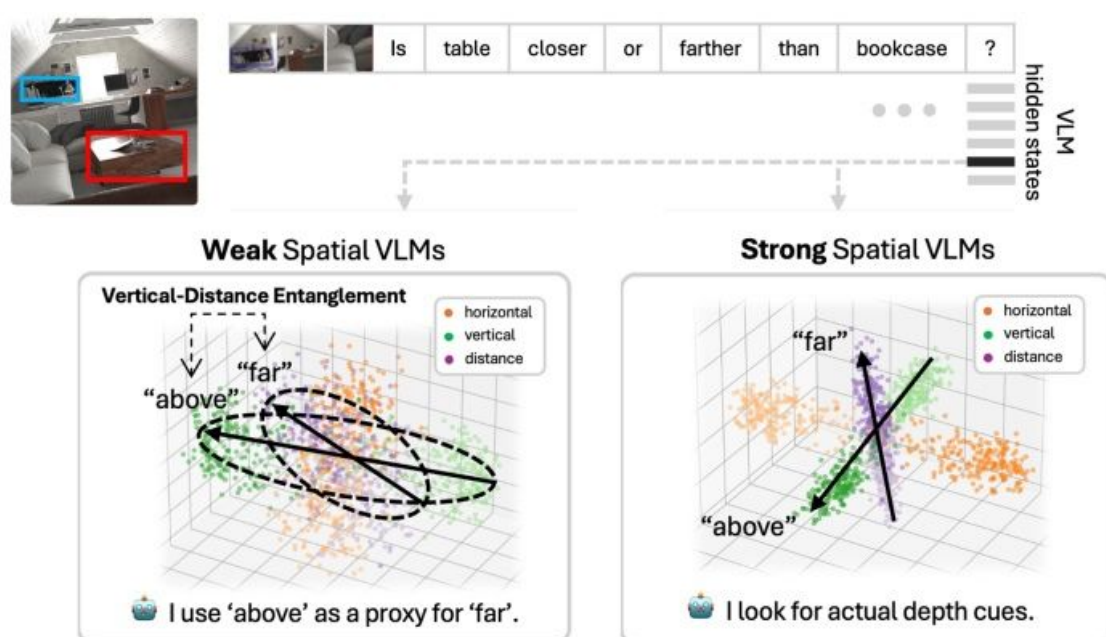
- Research Interests
 - 3D Reconstruction & Perception
 - Visual Generation & Editing
 - VLM for Robotics Applications
 - Various Computer Vision Topics 🤗
- Collaboration (as of 2026.09)
 - Nvidia, Microsoft, Adobe, Google Deepmind, Zoox
 - New York Univ. ETHZ, Hasselt Univ.
 - Hyundai Motor Group, Naver, Krafton, Samsung, SK Telecom, ETRI



1 Post Doc, 14 Ph.D, 9 M.S. students

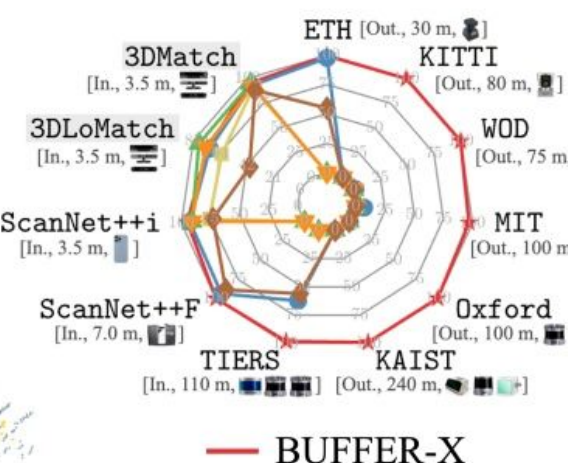
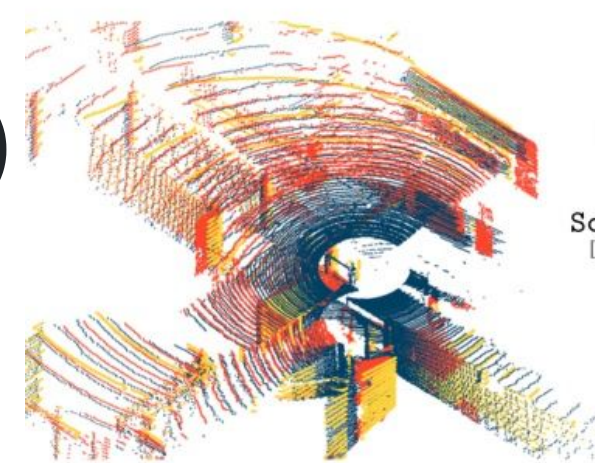
We are looking for **self-motivated students** for the internship! 🤗

3D Reconstruction and Perception



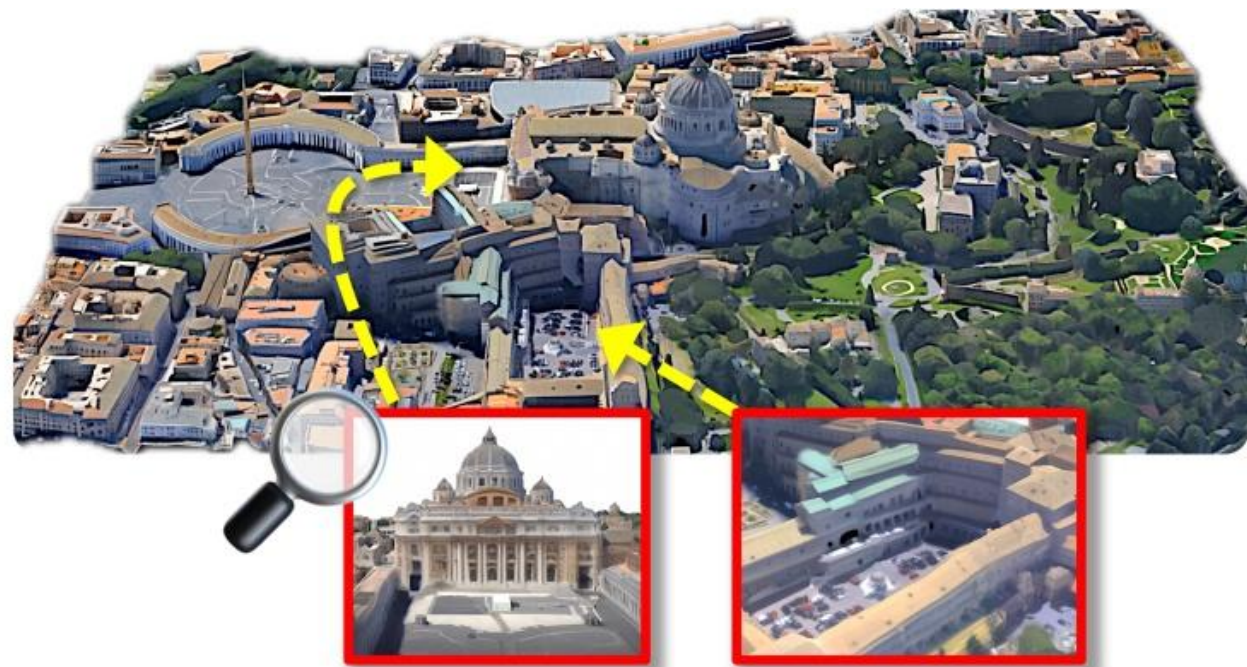
Why Far Looks Up (ECCV 2026 **Spotlight Oral**)

- Probing spatial representation in Vision-Language Models



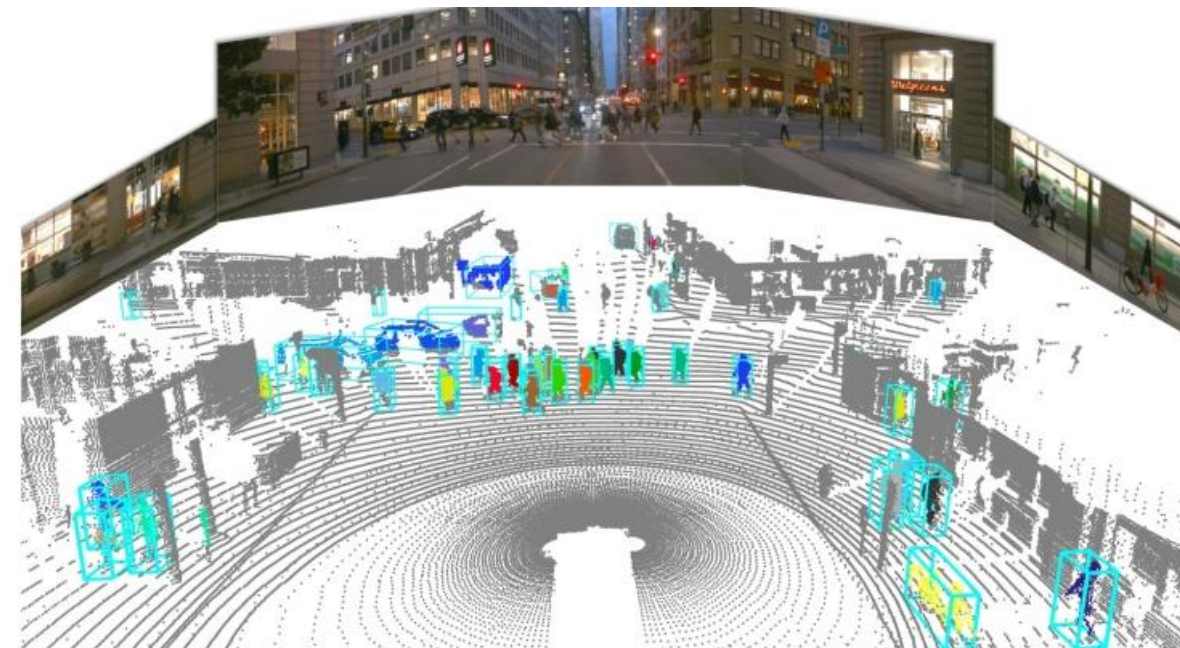
BUFFER-X (ICCV 2025 **Highlight**)

- Zero-shot point cloud registration in diverse scenes



Extend3D (CVPR 2026)

- Large scale 3D generation from an image



OpenBox (NeurIPS 2025 **Spotlight**)

- Image-guided semi-automatic 3D annotation

Visual Generation



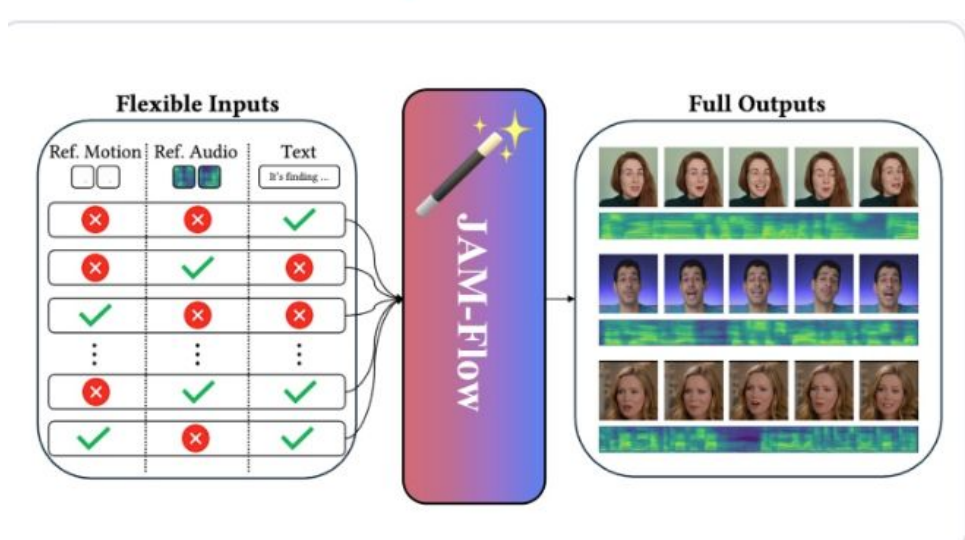
StudioRecon (SIGGRAPH 2026)

- 4D Scene synthesis from low-overlapped captures



MotionStream (ICLR 2026 **Full Oral**)

- Real-time Drag-based Video Editing



JAM-Flow (ECCV 2026)

- Joint Audio-Motion Synthesis with Flow Matching



Learning Zero-Shot Subject-Driven Video Generation Using 1% Compute (ECCV 2026)

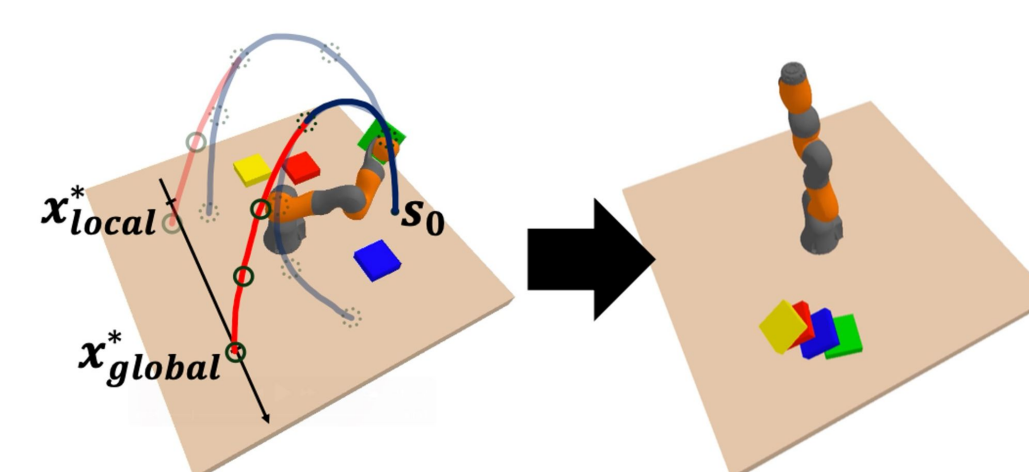
- via identity-motion disentanglement

Spatial AI



Berkeley RDI AgentX - AgentBeats Competition (**1st Place** in Game Agent)

- Agentic benchmark for task execution in minecraft (Phase 1)
- Minecraft game playing agent (Phase 2)



Tree-Guided Diffusion Planner (NeurIPS 2025)

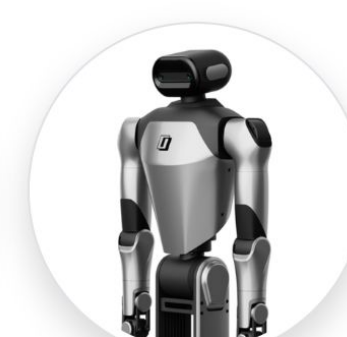
- A zero-shot test-time planning framework for diffusion models



Franka Panda
A high-performance, 7-DOF robot, featuring precise torque sensors



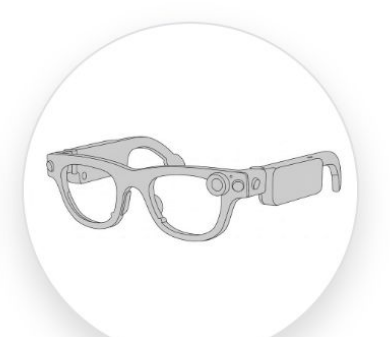
OpenManipulator
Robotic arm with a gripper



Galaxia R1 Pro
26-DOF dual-arm wheeled humanoid robot



XGRIDS Lixel L2 Pro
Handheld SLAM LIDAR scanner



Aria Gen2 Glasses
Real-time pose tracking and speech recognition