

Yosub Shin

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Education

University of Hawai‘i at Mānoa, Honolulu, HI — May 2024 – Present

Ph.D. Student, Computer Science (ICS Department)

Recipient of NSF CISE Graduate Fellowship (CSGrad4US), 2024 — \$159K over 3 years

University of Illinois at Urbana-Champaign, Urbana, IL — Dec 2015

Bachelor of Science in Computer Science, *Highest Honors*

GPA: 3.90 / 4.00

Recipient of Presidential Science Scholarship (Korea Student Aid Foundation) (2008)

Research & Competitions

CTB@ICML 2026 Workshop

m2sv: A Scalable Benchmark for Map-to-Street-View Spatial Reasoning

Yosub Shin, Michael Buriek, Igor Molybog.

arXiv:2601.19099

EMM-QA@ICML 2026 Workshop

What Matters in Data Curation for Multimodal Reasoning? Insights from the DCVLR Challenge

Yosub Shin, Michael Buriek, Boris Sobolev, Pavel Bushuyeu, Vikas Kumar, Haoyang Xu, Samuel Watson, Igor Molybog.

arXiv:2601.10922

NeurIPS 2025 – DCVLR (Data Curation for Vision Language Reasoning) Competition

Winner (1st place). Curated a vision-language reasoning dataset achieving top performance across benchmarks. Presented results in person at the NeurIPS competition workshop.

Press coverage

Preprints & Under Review

Beyond Audio and Pose: A General-Purpose Framework for Video Synchronization

Yosub Shin, Igor Molybog. arXiv preprint, 2025.

arXiv:2506.15937

Projects

Dexterous Cable Insertion — Intrinsic AI for Industry Challenge — Mar – May 2026

- Built end-to-end LeRobot pipeline (Gazebo, ROS 2) for contact-rich cable insertion—from scripted oracle demos to learned policies reaching ~50% full-insertion rate in sim
- Scaled sim demonstration generation to 1K+ tier-filtered episodes with DART corrective rollouts; parallel collection/eval and ablations over resolution, cameras, action horizons, and control frequency

Bilateral Teleoperation (SO-101) — Mechanical Engineering course project — Spring 2026

github.com/YosubShin/lerobot/tree/bilateral-teleop

- Assembled and tuned dual SO-101 arms; extended LeRobot with bilateral teleop delivering haptic contact feedback, motion assist, and gravity hold on low-cost Feetech servos
- Implemented 60 Hz per-joint controller (current-gated regimes, velocity lookahead) so operators feel follower stalls during teleoperation

koa-cli — Open-source HPC CLI — 2024 – Present github.com/YosubShin/koa

- Multi-cluster Slurm job submission from local workstation with reproducible repo snapshots, run manifests, and Streamlit dashboard; adopted by UH ICS peers

Experience

Scenery, San Francisco, CA — Feb 2023 – May 2024

Senior Software Engineer

- Designed an AI Editor that auto-cuts hours-long raw footage
- Launched AI transcription + auto-subtitles, boosting free-to-paid conversion

JagalJagal, Seoul, South Korea — Jun 2021 – Jan 2023

Founder, CEO

- Built *TeraSync*, reducing video sync time per episode by 90% (20 hours to 2 hours) via GPU parallelism
- Grew from \$0 to \$70K revenue in under one year

Samsara (NYSE: IOT), San Francisco, CA — Feb 2016 – Dec 2020

Senior Software Engineer II

- Joined as 10th engineer; delivered 8+ Fleet features contributing to \$150M+ ARR
- Owned compliance platform architecture for a 20-person team supporting over 10% ELD market share
- Led routing team; deterministic vehicle routing system using FSMs and immutable audit logs (US Patent 11145208)

Skills

- **Programming:** Python, Go, TypeScript
- **Machine Learning & Robotics:** PyTorch; VLMs; imitation learning (ACT, diffusion); sim (Gazebo, ROS 2); LeRobot, bilateral teleoperation
- **Systems:** GPU training; distributed computing; SLURM; HPC
- **Languages:** English, Korean

Awards

HackIllinois, Urbana, IL — Mar 2015

OculuScooter; 1st place hardware hack among 900 participants