

# Juyong Lee

Email

Google Scholar

GitHub

LinkedIn

---

Intro	<p>I am a Ph.D./M.S. integrated course; 3rd year) student, being advised by <b>Kimin Lee</b>. My main research interest is <b>autonomous replication and adaptation</b>. To this end, I study complex sequential decision making, such as by developing efficient algorithms for RL/LLM agents in open-ended environments (e.g., computer use) and designing new benchmarks (e.g., generalization and safety/alignment evaluation in digital device control).</p> <p><b>Keywords:</b> Reinforcement Learning, LLM Agent, AI Alignment, Evaluation</p>
Education	<p>Korea Advanced Institute of Science &amp; Technology (KAIST) Ph.D./M.S. int.), Kim Jaechul Graduate School of AI Stanford University International Honors Program Pohang University of Science and Technology (POSTECH) B.S., Mathematics &amp; Computer Science (double major) Daegu Science High School</p>
Work Experience	<p>Research Engineer (Contractor via YunoJuno) - Google DeepMind (2025 - 2026) Sergeant - Republic of Korea Army (2019 - 2020)</p>
Publication	<p>(*: equal contribution, J: Journal, C: Conference, P: Preprint)</p> <p>[P5] <b>Holistic Agent Leaderboard: The Missing Infrastructure for AI Agent Evaluation</b> S. Kapoor*, B. Stroebl*, ..., <b>J. Lee</b>, ..., P. Liang, A. Narayanan; <a href="#">under-review</a></p> <p>[P4] <b>State Your Intention to Steer Your Attention: An AI Assistant for Intentional Digital Living</b> J. Choi, <b>J. Lee</b>, J. Kim, C. Kim, T. Min, W. B. Knox, M. K. Lee, K. Lee; <a href="#">under-review</a></p> <p>[P3] <b>Automated Skill Discovery for Language Agents through Exploration and terative Feedback</b> Y. Yang*, S. Kang*, <b>J. Lee</b>, D. Lee, S. Yoon, K. Lee; <a href="#">under-review</a></p> <p>[P2] <b>MobileSafetyBench: Evaluating Safety of Autonomous Agents in Mobile Device Control</b> <b>J. Lee</b>*, D. Hahm*, J. Choi*, W. B. Knox, K. Lee; <a href="#">under-review</a></p> <p>[C5] <b>Benchmarking Mobile Device Control Agents across Diverse Configurations</b> <b>J. Lee</b>, T. Min, M. An, C. Kim, K. Lee; CoLLAs 2025</p> <p>[C4] <b>Learning to Contextualize Web Pages for Enhanced Decision Making by LLM Agents</b> D. Lee*, <b>J. Lee</b>*, K. Kim, J. Tack, J. Shin, Y. W. Teh, K. Lee; ICLR 2025</p> <p>[P1] <b>Unsupervised Reinforcement Learning with Foundation Models as Teachers</b> T. Nam*, <b>J Lee</b>*, J. Zhang, S. Hwang, J. Lim, K. Pertsch; NeurIPS 2023'W: ALOE</p> <p>[C3] <b>Hyperbolic VAE via Latent Gaussian Distributions</b> S. Cho, <b>J. Lee</b>, D. Kim; NeurIPS 2023</p> <p>[C2] <b>A Rotated Hyperbolic Wrapped Normal Distribution for Hierarchical Representation Learning</b> S. Cho, <b>J. Lee</b>, J. Park, D. Kim; NeurIPS 2022</p> <p>[C1] <b>Style-Agnostic Reinforcement Learning</b> <b>J. Lee</b>*, S. Ahn*, J. Park; ECCV 2022</p> <p>[J1] <b>A 3D Cell Printed Muscle Construct with Tissue-Derived Bioink for the reatment of Volumetric Muscle Loss</b> Y. Choi, ..., <b>J. Lee</b>, ..., J. Rhie, D. Cho; Biomaterials 2019</p>
Talk	<p>Tech summit, Hyundai motor group (2024) Mentor open seminar, Upstage-Naver Partnership for BoostCamp AI Tech Program (2024) Spotlight presentation, ICLR Workshop on Generative Models for Decision Making (2024) Technology presentation, AI EXPO KOREA (2024)</p>
Service	<p>Reviewer - ICLR 2025, NeurIPS 2025'W: NeuReps, TAG-DS 2025, AAAI 2026, ICLR 2026</p>
Skills	<p>Mathematics for AI (proficient), PyTorch (proficient), Python (proficient), C++ (intermediate), English (fluent)</p>