

Juyong Lee

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Intro	<p>I am a Ph.D.(/M.S. integrated course; 3rd year) student, advised by Kimin Lee. My main research interest is to build capable and reliable AI agents, currently focusing on digital tasks (e.g., web tasks). I develop algorithms to improve the abilities of RL/LLM agents (e.g., learning representation for visual robustness [C1] and efficient contextualization [C4]) and design evaluation systems (e.g., generalization [C5] and safety [C6]).</p> <p>Keywords: Representation Learning, Reinforcement Learning, LLM Agent, Evaluation, AI Alignment</p>
Education	<p>Korea Advanced Institute of Science & Technology (KAIST) Ph.D.(/M.S.), Kim Jaechul Graduate School of AI Stanford University International Honors Program Pohang University of Science and Technology (POSTECH) B.S., Mathematics & Computer Science (double major) Daegu Science High School for Gifted</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, C: Conference, P: Preprint)</p> <p>[P2] Toward Self-Evolving Systems of LLM Agents through Exploration and Iterative Feedback Y. Yang*, S. Kang*, J. Lee, D. Lee, S. Yun, K. Lee; under-review</p> <p>[P1] Holistic Agent Leaderboard: The Missing Infrastructure for AI Agent Evaluation S. Kapoor*, B. Stroebel*, ..., J. Lee, ..., P. Liang, A. Narayanan; under-review</p> <p>[C7] State Your Intention to Steer Your Attention: An AI Assistant for Intentional Digital Living J. Choi, J. Lee, J. Kim, C. Kim, T. Min, W. B. Knox*, M. K. Lee*, K. Lee*; CHI 2026</p> <p>[C6] MobileSafetyBench: Evaluating Safety of Autonomous Agents in Mobile Device Control J. Lee*, D. Hahm*, J. Choi*, W. B. Knox, K. Lee; AAAI 2026 (AI Alignment Track)</p> <p>[C5] Benchmarking Mobile Device Control Agents across Diverse Configurations J. Lee, T. Min, M. An, D. Hahm, H. Lee, C. Kim, K. Lee; CoLLAs 2025</p> <p>[C4] Learning to Contextualize Web Pages for Enhanced Decision Making by LLM Agents D. Lee*, J. Lee*, K. Kim, J. Tack, J. Shin, Y. W. Teh, K. Lee; ICLR 2025</p> <p>[C3] Hyperbolic VAE via Latent Gaussian Distributions S. Cho, J. Lee, D. Kim; NeurIPS 2023</p> <p>[C2] A Rotated Hyperbolic Wrapped Normal Distribution for Hierarchical Representation Learning S. Cho, J. Lee, J. Park, D. Kim; NeurIPS 2022</p> <p>[C1] Style-Agnostic Reinforcement Learning J. Lee*, S. Ahn*, J. Park; ECCV 2022</p>
Talk	<p>Google DeepMind Montreal (2025) Hyundai Motor Group Tech Summit (2024) ICLR Workshop on Generative Models for Decision Making (Spotlight Presentation; 2024) AI EXPO KOREA (2024)</p>
Service	<p>Reviewer - ICLR 2025, TAG-DS 2025, AAAI 2026, ICLR 2026</p>
Skills	<p>Mathematics for AI (proficient), Python (proficient), PyTorch (proficient), JAX (basic), Kotlin (basic), English (fluent)</p>