Phillip Yuseung Lee

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Education

Korea Advanced Institute of Science and Technology (KAIST) Mar 2025 - Present
Ph.D. in Graduate School of AI Advisor: Minhyuk Sung

Korea Advanced Institute of Science and Technology (KAIST) Sep 2023 - Feb 2025
M.S. in Graduate School of AI Advisor: Minhyuk Sung

Korea Advanced Institute of Science and Technology (KAIST) Mar 2017 - Sep 2023
B.S. in Computer Science

Research Interests

Computer Vision, Multimodal Understanding, Generative Models

Publications

Perspective-Aware Reasoning in Vision-Language Models via Mental Imagery Simulation
Phillip Y. Lee, Jihyeon Je, Chanho Park, Mikaela Angelina Uy, Leonidas Guibas, Minhyuk Sung
Preprint, 2025

Unconditional Priors Matter! Improving Conditional Generation of Fine-Tuned Diffusion Models
Prin Phunyaphibarn, **Phillip Y. Lee**, Jaihoon Kim, Minhyuk Sung
Preprint, 2025

GrounDiT: Grounding Diffusion Transformers via Noisy Patch Transplantation
Phillip Y. Lee*, Taehoon Yoon*, Minhyuk Sung (* equal contribution)
NeurIPS 2024 (Acceptance Rate: 25.8%)

ReGround: Improving Textual and Spatial Grounding at No Cost
Phillip Y. Lee, Minhyuk Sung
ECCV 2024 (Acceptance Rate: 27.9%)

SyncDiffusion: Coherent Montage via Synchronized Joint Diffusions
Phillip Y. Lee, Kunho Kim, Hyunjin Kim, Minhyuk Sung
NeurIPS 2023 (Acceptance Rate: 26.1%)

Talks & Achievements

Oral Presentation on ReGround Oct 2024
Presented at *ECCV 2024 Unlearning and Model Editing Workshop.*

Oral Presentation on SyncDiffusion Dec 2023
Presented at *NeurIPS 2023 Machine Learning for Creativity and Design Workshop.*

KAIST's Research Highlight of 2023 – SyncDiffusion May 2024
Selected as one of 29 Research Highlights in *2024 KAIST Annual R&D Report.*

Work Experience

Visual AI Group, KAIST Jun 2022 - Jun 2023
Student Researcher

Omnious.AI Dec 2021 - Feb 2022
Intern (Machine Learning Engineer)

Cyper-Physical Systems Lab, KAIST Jan 2021 - Aug 2021
Student Researcher

Teaching Experience

CS479: Machine Learning for 3D Data Fall 2023, KAIST
Teaching Assistant

CS492(D): Diffusion Models and Their Applications Fall 2024, KAIST
Teaching Assistant

CS479: Machine Learning for 3D Data Spring 2025, KAIST
Teaching Assistant

Academic Service

NeurIPS 2024, ICLR 2025, ICML 2025, TPAMI 2025 Reviewer

Skills

Programming Languages	Python, Java, C
Deep Learning Frameworks	PyTorch
Languages	Korean (Native), English (Fluent)