Sangmin Lee

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RESEARCH INTERESTS

Generative models (diffusion, flow matching) and their distillation into fast one-step models, applied to multi-agent coordination. My current focus is efficient collaboration among diffusion-based language model agents through latent-space communication, including subagent orchestration and agent harness design.

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST) Sep 2026 – Present
Ph.D. in AI Computing *Daejeon, Korea*
Advisor: Prof. Sung-Eui Yoon, Scalable Graphics, Vision, and Robotics (SGVR) Lab

Korea Advanced Institute of Science and Technology (KAIST) Sep 2024 – Aug 2026
M.S. in Computer Science *Daejeon, Korea*
Advisor: Prof. Sung-Eui Yoon

Korea Advanced Institute of Science and Technology (KAIST) Mar 2019 – Sep 2024
B.S. in Computer Science *Daejeon, Korea*
Minor in Electrical Engineering; Certificate in AI track

Daejeon Dongsin Science High School Mar 2017 – Feb 2019
Early graduation (completed in two years) *Daejeon, Korea*

PUBLICATIONS AND PREPRINTS

[1] **MoSDOT: Multi-Agent Coordination via Support-Preserving Distillation**
Sangmin Lee, Youngju Na, Chanmi Lee, Sung-Eui Yoon
Neural Information Processing Systems (NeurIPS), 2026 [arXiv] [project page]
Aligns source noise with joint-action modes through semi-discrete optimal transport, then distills the flow-based teacher into decentralized one-step policies.

[2] **Rectified Flow Distillation via 2nd Order Inversion for Consistent Text-to-3D Generation**
Sangmin Lee, Taeyeon Kim, Youngju Na, Jumin Lee, Sung-Eui Yoon
CKAIA, 2025 (Korean domestic conference) [paper]
Replaces stochastic guidance in rectified-flow score distillation with deterministic guidance from second-order ODE inversion.

RESEARCH EXPERIENCE

Institute for Basic Science (IBS), Data Science Group Dec 2022 – Dec 2023
Undergraduate Research Intern
Advisor: Prof. Meeyoung Cha. Protein thermostability prediction with protein language models.

HONORS AND AWARDS

Awards

- 1st Place (Grand Prize), 2nd Medical AI (MAI) Competition 2025
- 1st Place (Minister of Science and ICT Award), AI Competition on Biological Research Resources 2024

Programming Contests

- Silver Prize, Korea Olympiad in Informatics (KOI) 2016

TEACHING

- Counseling Assistant, KAIST CA Program (academic and career counseling) Fall 2026
- Teaching Assistant, CS30300 Operating Systems and Lab, KAIST Fall 2025
- Teaching Assistant, CS50700 Artificial Intelligence and Machine Learning, KAIST Spring 2025