

Gwangho Kim

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Research Interests

I am interested in understanding the **generalization and memorization of diffusion models**, with a particular emphasis on their ability to generalize beyond finite training data. I am also interested in related topics, including **reward alignment, guidance, membership inference, and data attribution**.

Education

Hanyang University, Seoul, South Korea

Mar. 2025 - Present

M.S. IN COMPUTER SCIENCE

GPA 97.9/100

- Research interests: Machine Learning and Generative Models
- GPA: 4.29 / 4.5

Hanyang University, Seoul, South Korea

Mar. 2018 - Sep. 2024

B.S. IN COMPUTER SCIENCE & MATHEMATICS

GPA 94.7/100

- Double Major in Computer Science and Mathematics
- GPA: 3.97 / 4.5
- Military Service (2019 - 2020)

Publications

Parallel Tempering Initial Sampling in Inference-Time Reward Alignment

ICML 2026 Workshop on Structured Probabilistic Inference & Generative Modeling (SPIGM).
Myeongjun Oh, **Gwangho Kim**, Sungyoon Lee. 2026.

Localizing Memorized Regions in Diffusion Models via Coordinate-Wise Curvature Differences

International Conference on Machine Learning (ICML 2026).
Gwangho Kim, Sungyoon Lee. 2026.

Honors & Awards

Fall 2023 **Hanyang Brain Academic Excellence Scholarship**, Hanyang University
2018, 2021 **Freshmen Merit-Based Scholarship**, Hanyang University

Teaching Experience

Fall 2025 **INTRODUCTION TO MACHINE LEARNING THEORY**, Teaching Assistant
Spring 2025 **AI Thesis Research**, Teaching Assistant

Academic Service

REVIEWER: ICML SPIGM Workshop (2026)