Bumjun Kim

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Education

Yonsei University *Mar 2025 – Present*
Ph.D. in Artificial Intelligence *Seoul, Korea*

- GPA: 4.25/4.30

Hongik University *Mar 2018 – Feb 2025*
B.S. in Computer Engineering *Seoul, Korea*

- GPA: 3.89/4.50

Publications

Peer Reviewed *(* equal contribution, † corresponding author)*

1. **Dependency-Aware Parallel Decoding via Attention for Diffusion LLMs**
   Bumjun Kim*, Dongjae Jeon*, Moongyu Jeon, Albert No†
   ICML 2026
2. **Rainbow Padding: Mitigating Early Termination in Instruction-Tuned Diffusion LLMs**
   Bumjun Kim*, Dongjae Jeon*, Dueun Kim*, Wonje Jeung, Albert No†
   ICLR 2026
3. **Memorization In Stable Diffusion Is Unexpectedly Driven by CLIP Embeddings**
   Bumjun Kim, Albert No†
   CVPR 2026 Findings

Preprints

1. **Understanding the Reversal Curse Mitigation in Masked Diffusion Models through Attention and Training Dynamics**
   Sangwoo Shin, **Bumjun Kim**, Kyelim Lee, Moongyu Jeon, Albert No†
   arXiv, 2026

Honors & Awards

Science and Technology Scholarship (Undergraduate) *Sep 2022 – Feb 2025*
Hyundai Motor Chung Mong-Koo Foundation
Received full tuition support plus a stipend of approximately USD 1,500 per semester.

Google Solution Challenge *May 2024*
Top 100 Finalist

Biohealth Data Competition – Dentistry Track *Dec 2023*
Encouragement Award

Yongin City SW/AI Hackathon *Oct 2023*
Grand Prize (Director's Award, Yongin Industry Promotion Agency)

Research Experience

Ph.D. Researcher *Mar 2025 – Present*
Artificial Intelligence & Information Systems Laboratory (AI-ISL) *Seoul, Korea*
Advisor: Prof. Albert No

- Conduct research on diffusion language models, including early termination mitigation, dependency-aware parallel decoding, and reversal-curse behavior, resulting in one ICLR 2026 paper and two arXiv preprints.
- Build training and evaluation pipelines for LLaDA and Dream to study generation dynamics and validate methods such as Rainbow Padding.

Undergraduate Researcher *Jul 2023 – Feb 2025*
Artificial Intelligence & Information Systems Laboratory (AI-ISL) *Seoul, Korea*
Advisor: Prof. Albert No

- Investigated memorization in image diffusion models, leading to a CVPR 2026 Findings paper identifying CLIP embeddings as a key driver of memorization in Stable Diffusion.
- Built large-scale analysis pipelines for memorization and privacy experiments across Stable Diffusion variants.

Selected Activities

21st Cohort, Data Analysis, BOAZ *Jul 2023 – Jul 2024*
Intercollegiate Big Data Organization

Member, GDG on Campus Hongik Univ. *Sep 2023 – Feb 2025*
Hongik University