Chanhyuk Lee

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RESEARCH INTERESTS

I am interested in developing new methods for generative intelligence beyond autoregressive modeling. My current research focuses on modeling discrete data with continuous diffusion and flow models, with an emphasis on efficient language generation and reasoning in continuous latent spaces. My broader interests include exploring neural network parameter spaces, particularly for model merging to build generalist models and for weight-space memories in LLMs.

EDUCATION

M.S. in Computer Science Mar. 2025 – Feb. 2027 (Expected)
Korea Advanced Institute of Science and Technology (KAIST)
School of Computing
Advisor: Prof. Seunghoon Hong

B.S. in Computer Science and Chemistry (Double Major) Mar. 2019 – Feb. 2025
Korea Advanced Institute of Science and Technology (KAIST)

PUBLICATIONS

C: Conference **W**: Workshop **P**: Preprint [*]Equal contribution [†]Equal advising

P3. **Large Flow Language Models**
Arnav Chavan[*], Chanhyuk Lee[*], Udbhav Bamba[*], Jaehoon Yoo, Seunghoon Hong, Aditi Raghunathan, Jinwoo Kim.
arXiv preprint, 2026

W3. **One-Step Generation via Riemannian Wasserstein Gradient Flows**
David Li, Chanhyuk Lee, Jaehoon Yoo, Nikita Gushchin, Floor Eijkelboom, Eric Moulines, Maxim Panov, Alexander Korotin, Seunghoon Hong, Jinwoo Kim.
NeurIPS 2026 DiffuLM Workshop

P2. **Thinking with Looped Flows**
Ayhan Suleymanzade, Chanhyuk Lee, Floor Eijkelboom, Nicholas M. Boffi, İsmail İlkan Ceylan[†], Jinwoo Kim[†].
arXiv preprint, 2026

C5. **PatchKV: Weight-Space Compensation of KV Cache**
Chanryeol Lee, Chanhyuk Lee, Yeonwoo Choi, Donggyun Kim[†], Seunghoon Hong[†]
NeurIPS, 2026

C4. **Flow Map Language Models: One-step Language Modeling via Continuous Denoising**
Chanhyuk Lee, Jaehoon Yoo, Manan Agarwal, Sheel Shah, Jerry Huang, Aditi Raghunathan, Seunghoon Hong, Nicholas M. Boffi[†], Jinwoo Kim[†].
NeurIPS, 2026; COLM 2026 NonAR-LM Workshop Spotlight

W2. **Self-conditioned Flow Map Language Models via Fixed-point Flows**
Jaehoon Yoo, Wonjung Kim, Floor Eijkelboom, Chanhyuk Lee, Nicholas M. Boffi, Seunghoon Hong[†], Jinwoo Kim[†].
COLM 2026 NonAR-LM Workshop Oral

W1. **Posterior Refinement: Fast Language Generation via Any-Order Flow Maps**
Manan Agarwal[*], Sheel Shah[*], Chanhyuk Lee, Jaehoon Yoo, Jerry Huang, Seunghoon Hong, Aditi Raghunathan, Jinwoo Kim[†], Nicholas M. Boffi[†].
COLM 2026 NonAR-LM Workshop Spotlight

C3. **Infinite Mask Diffusion for Few-Step Distillation**
Jaehoon Yoo, Wonjung Kim, Chanhyuk Lee, Seunghoon Hong.
ICML 2026

C2. **AdaRank: Adaptive Rank Pruning for Enhanced Model Merging**
Chanhyuk Lee, Jiho Choi, Chanryeol Lee, Donggyun Kim, Seunghoon Hong.
ICLR 2026

C1. **Universal Few-Shot Spatial Control for Diffusion Models**
Kiet T. Nguyen, Chanhyuk Lee, Donggyun Kim, Donghoon Lee, Seunghoon Hong.
NeurIPS 2025

P1. **Revisiting Weight Averaging for Model Merging**
Jiho Choi*, Donggyun Kim*, Chanhyuk Lee, Seunghoon Hong.
arXiv preprint, 2024.

EXPERIENCE

Graduate Research Assistant Mar. 2025 – Present
Vision and Learning Lab, KAIST CS
Advisor: Prof. Seunghoon Hong
Research on diffusion language models, model merging, parameter alignment.

Undergraduate Researcher Jul. 2024 – Feb. 2025
Vision and Learning Lab, KAIST CS
Advisor: Prof. Seunghoon Hong
Research on model merging and few-shot learning.

Undergraduate Researcher Jan. 2024 – Jun. 2024
CVML Lab, KAIST AI
Advisor: Prof. Hyunjung Shim
Research on efficient neural networks via weight quantization.

Military Service, Republic of Korea Army Jan. 2022 – Jul. 2023

Undergraduate Researcher Jan. 2020 – Jun. 2021
M-Design Lab, KAIST Chemistry
Advisor: Prof. Hyungjun Kim
Research on simulating acid-base proton transfer via DFT.

ACADEMIC SERVICE

Conference Reviewer: NeurIPS (2026–), ICLR (2026–)
Workshop Reviewer: COLM 2026 NonAR-LM

INVITED TALKS

Flow Map Language Models: One-step Language Modeling via Continuous Denoising
– **KAIST-Mila Prefrontal AI Workshop** (host: Sungsoo Ahn, Sungjin Ahn, Seunghoon Hong)
– **NVIDIA** (host: Boris Ginsburg)
– **Discrete Diffusion Reading Group** (host: Subham Sahoo, Zhihan Yang, Justin Deschenaux)

TEACHING

Teaching Assistant, KAIST School of Computing
Introduction to Deep Learning (CS371) Fall 2025
Elements of AI (CS103) Spring 2025

Teaching Assistant, Samsung Electronics
Samsung Research AI Expert Program 2025-2026

Student Mentoring
Yeonwoo Choi, Undergraduate Student @ KAIST 2026
Chanryeol Lee, Undergraduate Student @ KAIST **[C2]** → M.S. Student @ KAIST 2024–2025

HONORS

KAIST School of Computing Best TA Award 2025
Samsung Humantech Paper Awards (High School Track) 2018

SKILLS

Programming Languages: Python, C/C++
Languages: Korean (Native), English (Fluent, TOEFL iBT: 110)

REFERENCES

Seunghoon Hong, Associate Professor at KAIST
seunghoon.hong@kaist.ac.kr