

Daewon Choi

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RESEARCH INTERESTS My research focuses on addressing *practical problems* — such as efficiency and safety — of multimodal and language foundation models. I aim to develop algorithms that make these models reliably deployable under real-world constraints, with a current focus on inference-time techniques that improve efficiency and robustness without costly retraining.

Keywords: Large Language Models, Multimodal Foundation Models, Efficiency, Safety

EDUCATION **M.S & Ph.D. in Artificial Intelligence** Feb. 2024 - Present
KAIST, Daejeon, South Korea
Advisor: Prof. **Jinwoo Shin**

B.S. in Industrial Management Engineering and Computer Science Feb. 2020 - Feb. 2024
Korea University, Seoul, South Korea
GPA: 4.29/4.5 (*Great Honors*)

PUBLICATIONS C: Conference, W: Workshop, P: Preprint

*: Equal contribution, †: Corresponding author, §: Research Lead

[C6] **HAMLET: Switch your Vision-Language-Action Model into a History-Aware Policy**

Myungkyu Koo*, [Daewon Choi](#)*, Taeyoung Kim, Kyungmin Lee,
Changyeon Kim, Younggyo Seo†, Jinwoo Shin†
International Conference on Learning Representations (ICLR), 2026

[C5] **Think Clearly: Improving Reasoning via Redundant Token Pruning**

[Daewon Choi](#), Jimin Lee, Jihoon Tack, Woomin Song, Saket Dingliwal,
Sai Muralidhar Jayanthi, Bhavana Ganesh, Jinwoo Shin, Aram Galstyan, Sravan Babu Bodapati
In Findings of the Association for Computational Linguistics: EMNLP 2025

[C4] **Mamba Drafters for Speculative Decoding**

[Daewon Choi](#), Seunghyuk Oh, Saket Dingliwal, Jihoon Tack, Kyuyoung Kim, Woomin Song,
Seojin Kim, Insu Han, Jinwoo Shin, Aram Galstyan, Shubham Katiyar, Sravan Babu Bodapati
In Findings of the Association for Computational Linguistics: EMNLP 2025

[C3] **Adversarial Robustification via Text-to-Image Diffusion Models**

[Daewon Choi](#)*, Jongheon Jeong*, Huiwon Jang, Jinwoo Shin
European Conference on Computer Vision (ECCV), 2024
Oral presentation (200/8585=2.3%)

[C2] **Modality-agnostic Self-supervised Learning with Meta-Learned Masked Auto-encoder**

Huiwon Jang*, Jihoon Tack*, [Daewon Choi](#), Jongheon Jeong, Jinwoo Shin
Conference on Neural Information Processing Systems (NeurIPS), 2023

[C1] **3D GAN Inversion with Pose Optimization**

Jaehoon Ko*, Kyusun Cho*, [Daewon Choi](#), Kwangrok Ryoo, Seungryong Kim
Winter Conference on Applications of Computer Vision (WACV), 2023

[P2] **RLDX-1 Technical Report**

Dongyoung Kim*§, Huiwon Jang*§, Myungkyu Koo*, Suhyeok Jang*, Taeyoung Kim*,
[Daewon Choi](#), . . . , Jinwoo Shin§ (68 authors)
arXiv preprint, 2026

[P1] **AE-NeRF: Auto-Encoding Neural Radiance Fields for 3D-Aware Object Manipulation**

Mira Kim*, Jaehoon Ko*, Kyusun Cho, Junmyeong Choi, [Daewon Choi](#), Seungryong Kim
arXiv preprint, 2022

WORK EXPERIENCE

Research Collaboration, Amazon AGI
Research on LLM inference Nov. 2024 - Present

Undergraduate Research Intern, ALIN-LAB (Meta-Learning Team)
KAIST, Daejeon, South Korea Feb. 2023 - Feb. 2024
Advised by Prof. Jinwoo Shin

Undergraduate Research Intern, CVLAB (3D Vision Team)
Korea University, Seoul, South Korea Jan. 2022 - Dec. 2022
Advised by Prof. Seungryong Kim

SELECTED HONORS

Scholarships and Fellowships

National Science & Technology Scholarship 2022-2023
Korea University Alumni Association Scholarship 2021, 2022

Awards

1st Place, Korea University AI Hackathon 2023
Dean's List, Korea University College of Engineering 2021S

ACADEMIC SERVICES

Conference Reviewer: NeurIPS'26, ICLR'26, ICML'26, ACL'26, CVPR'26, ECCV'26

TECH. SKILLS

ML/DL: Pytorch, HuggingFace Transformers, Diffusion Models
Programming: Python, C, C++
Database: SQL, Docker
Others: React.js

REFERENCES

Prof. Jinwoo Shin, Full Professor at KAIST
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Last Updated: May 11, 2026