

## Daewon Choi

🏠 [ChoiDael.github.io](https://ChoiDael.github.io), ✉ [daeone0920@kaist.ac.kr](mailto:daeone0920@kaist.ac.kr), 🌐 [GitHub](#), 🎓 [Google Scholar](#)

**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

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**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*)

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**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§ (67 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

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**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

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**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

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**ACADEMIC SERVICES**

**Conference Reviewer**: ICLR (2026), ICML (2026), ACL (2026), CVPR (2026), ECCV (2026)

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**TECH. SKILLS**

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

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**REFERENCES**

**Prof. Jinwoo Shin**, Full Professor at KAIST  
E-mail: [jinwoos@kaist.ac.kr](mailto:jinwoos@kaist.ac.kr)

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Last Updated: May 11, 2026