

# Dohwan Ko

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EDUCATION	<b>Korea University</b> M.S. & Ph.D. integrated in Computer Science and Engineering Advisor: Hyunwoo J. Kim	Seoul, Republic of Korea Mar. 2021 - Current
	<b>Korea University</b> B.S. in Computer Science and Engineering	Seoul, Republic of Korea Mar. 2017 - Feb. 2021
RESEARCH INTERESTS	<ul style="list-style-type: none"><li>• Computer Vision</li><li>• Video and Multi-Modal Understanding</li><li>• Foundation Models</li><li>• Large Language Models and Vision-Language Models</li><li>• Self-Supervised Learning and Representation Learning</li></ul>	
WORKING EXPERIENCE	<b>Meta</b> • Research Scientist Intern in Meta Reality Lab	Menlo Park, CA Mar. 2025 - Jun. 2025
	<b>NEC Labs America</b> • Research Scientist Intern in Media Analytics Team	San Jose, CA Jun. 2024 - Aug. 2024
	<b>NAVER</b> • Internship at User Feedback Platform • Detecting Malicious Comments	Seongnam, Republic of Korea Jul. 2020 - Aug. 2020
PUBLICATIONS	<p>[1] <b>Bidirectional Likelihood Estimation with Multi-Modal Large Language Models for Text-Video Retrieval</b> <u>Dohwan Ko</u><sup>*</sup>, Ji Soo Lee<sup>*</sup>, Minhyuk Choi, Zihang Meng, Hyunwoo J. Kim. International Conference on Computer Vision (<i>ICCV</i>), 2025. [paper]</p> <p>[2] <b>ST-VLM: Kinematic Instruction Tuning for Spatio-Temporal Reasoning in Vision-Language Models</b> <u>Dohwan Ko</u><sup>*</sup>, Sihyeon Kim<sup>*</sup>, Yumin Suh, Vijay Kumar B G, Minseo Yoon, Manmohan Chandraker, Hyunwoo J. Kim preprint 2025. [paper]</p> <p>[3] <b>LLaMo: Large Language Model-based Molecular Graph Assistant</b> Jinyoung Park, Minseong Bae, <u>Dohwan Ko</u>, Hyunwoo J. Kim. Advances in Neural Information Processing Systems (<i>NeurIPS</i>), 2024. [paper]</p> <p>[4] <b>Large Language Models are Temporal and Causal Reasoners for Video Question Answering</b> <u>Dohwan Ko</u><sup>*</sup>, Ji Soo Lee<sup>*</sup>, Wooyoung Kang, Byungseok Roh, Hyunwoo J. Kim. Empirical Methods in Natural Language Processing (<i>EMNLP</i>), 2023. [paper]</p> <p>[5] <b>Open-Vocabulary Video Question Answering: A New Benchmark for Evaluating the Generalizability of Video Question Answering Models</b> <u>Dohwan Ko</u>, Ji Soo Lee, Miso Choi, Jaewon Chu, Jihwan Park, Hyunwoo J. Kim. International Conference on Computer Vision (<i>ICCV</i>), 2023. [paper]</p> <p>[6] <b>MELTR: Meta Loss Transformer for Learning to Fine-tune Video Foundation Models</b> <u>Dohwan Ko</u><sup>*</sup>, Joonmyung Choi<sup>*</sup>, Hyeong Kyu Choi, Kyoung-Woon On, Byungseok Roh, Hyunwoo J. Kim.</p>	

Computer Vision and Pattern Recognition (CVPR), 2023. [paper]

[7] **Randomly Shuffled Convolution for Self-Supervised Representation Learning**

Youngjin Oh\*, Minkyu Jeon\*, Dohwan Ko, Hyunwoo J. Kim.

Information Sciences, 2022. [paper]

[8] **Video-Text Representation Learning via Differentiable Weak Temporal Alignment**

Dohwan Ko, Joonmyung Choi, Juyeon Ko, Shinyeong Noh, Kyoung-Woon On, Eun-Sol Kim, Hyunwoo J. Kim.

Computer Vision and Pattern Recognition (CVPR), 2022. [paper]

[9] **Search-and-Attack: Temporally Sparse Adversarial Perturbations on Videos**

Hwan Heo\*, Dohwan Ko\*, Jaewon Lee\*, Youngjoon Hong, Hyunwoo J. Kim.

IEEE ACCESS, 2021. [paper]

TALKS AND  
SEMINARS

**Transformer and Visual Question Answering**  
Korea University

Nov. 2023

TEACHING  
EXPERIENCE

**Deep Learning** (COSE474)  
Teaching Assistant at Korea University

Seoul, Republic of Korea  
Sep. 2022 - Dec. 2022

**Artificial Intelligence** (COSE361)  
Teaching Assistant at Korea University

Seoul, Republic of Korea  
Mar. 2022 - Jun. 2022

HONORS &  
AWARDS

**Outstanding Paper Award**, Korea University  
**Semester High Honors**, Korea University  
**Veritas Program Scholarship**, Korea University

2024  
2020  
2017

ACADEMIC  
SERVICES

Reviewer of **NeurIPS** (Advances in Neural Information Processing Systems)  
Reviewer of **ICCV** (International Conference on Computer Vision)  
Reviewer of **CVPR** (Computer Vision and Pattern Recognition)  
Reviewer of **ECCV** (European Conference on Computer Vision)  
Reviewer of **ACL ARR** (Association for Computational Linguistics Rolling Review)

2025  
2025  
2024-2025  
2024  
2024-2025

SKILLS

**Language**  
• Korean (*native*)  
• English (*intermediate*)  
**Programming** C, Python, PyTorch, git,  $\text{\LaTeX}$