

Dohwan Ko

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

- [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	2024
	Semester High Honors , Korea University	2020
	Veritas Program Scholarship , Korea University	2017
ACADEMIC SERVICES	Reviewer of NeurIPS (Advances in Neural Information Processing Systems)	2025
	Reviewer of ICCV (International Conference on Computer Vision)	2025
	Reviewer of CVPR (Computer Vision and Pattern Recognition)	2024-2025
	Reviewer of ECCV (European Conference on Computer Vision)	2024
	Reviewer of ACL ARR (Association for Computational Linguistics Rolling Review)	2024-2025
SKILLS	Language <ul style="list-style-type: none"> • Korean (<i>native</i>) • English (<i>intermediate</i>) Programming C, Python, PyTorch, git, \LaTeX	