

# Dohwan Ko

ikodoh@korea.ac.kr  
<https://github.com/ikodoh>

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EDUCATION	<b>Korea University</b> Ph.D. in Computer Science and Engineering Advisor: Hyunwoo J. Kim	Seoul, Republic of Korea Mar. 2023 - Current
	<b>Korea University</b> M.S. in Computer Science and Engineering Advisor: Hyunwoo J. Kim	Seoul, Republic of Korea Mar. 2021 - Feb. 2023
	<b>Korea University</b> B.S. in Computer Science and Engineering	Seoul, Republic of Korea Mar. 2017 - Feb. 2021
RESEARCH INTERESTS	Computer Vision, Video and Multi-Modal Understanding, Foundation Models, Large Language Models, Self-Supervised Learning and Representation Learning	
WORKING EXPERIENCE	<b>NAVER</b> <ul style="list-style-type: none"><li>• Internship at User Feedback Platform</li><li>• Detecting Malicious Comments</li></ul>	Seongnam, Republic of Korea Jul. 2020 - Aug. 2020
PUBLICATIONS	<ol style="list-style-type: none"><li>[1] <b>Large Language Models are Temporal and Causal Reasoners for Video Question Answering</b> Dohwan Ko*, Ji Soo Lee*, Wooyoung Kang, Byungseok Roh, Hyunwoo J. Kim. Empirical Methods in Natural Language Processing (<i>EMNLP</i>), 2023. [paper]</li><li>[2] <b>Open-Vocabulary Video Question Answering: A New Benchmark for Evaluating the Generalizability of Video Question Answering Models</b> Dohwan Ko, Ji Soo Lee, Miso Choi, Jaewon Chu, Jihwan Park, Hyunwoo J. Kim. International Conference on Computer Vision (<i>ICCV</i>), 2023. [paper]</li><li>[3] <b>MELTR: Meta Loss Transformer for Learning to Fine-tune Video Foundation Models</b> Dohwan Ko*, Joonmyung Choi*, Hyeong Kyu Choi, Kyoung-Woon On, Byungseok Roh, Hyunwoo J. Kim. Conference on Computer Vision and Pattern Recognition (<i>CVPR</i>), 2023. [paper]</li><li>[4] <b>Randomly Shuffled Convolution for Self-Supervised Representation Learning</b> Youngjin Oh*, Minkyu Jeon*, Dohwan Ko, Hyunwoo J. Kim. <i>Information Sciences</i>, 2022. [paper]</li><li>[5] <b>Video-Text Representation Learning via Differentiable Weak Temporal Alignment</b> Dohwan Ko, Joonmyung Choi, Juyeon Ko, Shinyeong Noh, Kyoung-Woon On, Eun-Sol Kim, Hyunwoo J. Kim. Conference on Computer Vision and Pattern Recognition (<i>CVPR</i>), 2022. [paper]</li><li>[6] <b>Search-and-Attack: Temporally Sparse Adversarial Perturbations on Videos</b> Hwan Heo*, Dohwan Ko*, Jaewon Lee*, Youngjoon Hong, Hyunwoo J. Kim. <i>IEEE ACCESS</i>, 2021. [paper]</li></ol>	
TEACHING EXPERIENCE	<b>Deep Learning (COSE474)</b> Teaching Assistant at Korea University	Seoul, Republic of Korea Sep. 2022 - Dec. 2022
	<b>Artificial Intelligence (COSE361)</b> Teaching Assistant at Korea University	Seoul, Republic of Korea Mar. 2022 - Jun. 2022

HONORS &  
AWARDS

**Semester High Honors**, Korea University  
**Veritas Program Scholarship**, Korea University

2020  
2017

SKILLS

**Language**

- Korean (*native*)
- English (*intermediate*)

**Programming** C, Python, PyTorch, git,  $\LaTeX$