SANGHO LEE

■ sanghol@allenai.org | 🏠 https://sangho-vision.github.io | 📠 sanghol | 🏲 Scholar

RESEARCH INTERESTS

Computer Vision, Machine Learning

Multimodal representation learning, especially for high-level video understanding and reasoning

EMPLOYMENT

PRIOR @ Allen Institute for AI

Aug. 2024 - Present

Research Scientist

PRIOR @ Allen Institute for AI

Jan. 2023 - Jul. 2024

Postdoctoral Researcher (Young Investigator)

PRIOR @ Allen Institue for AI

Research Intern Mar. 2022 - Jun. 2022, Aug. 2022 - Dec. 2022

EDUCATION

Seoul National University

Mar. 2017 - Feb. 2023

Doctor of Philosophy (Ph.D)

Overall GPA: 4.27 / 4.3

Department of Computer Science and Engineering

Advisor: Prof. Gunhee Kim

Thesis: Improving Efficiency in Large-Scale Self-Supervised Video Representation Learning

Seoul National University

Mar. 2010 - Feb. 2017

Bachelor of Science

Overall GPA: 4.04 / 4.3

Department of Computer Science and Engineering

Minor in Statistics

Graudated summa cum laude

PUBLICATIONS

Finding NeMo: Negative-mined Mosaic Augmentation for Referring Image Segmentation Seongsu Ha*, Chaeyun Kim*, Donghwa Kim*, Junho Lee, Sangho Lee, and Joonseok Lee (*: equal contribution)

The 18th European Conference on Computer Vision (ECCV 2024)

Unified-IO 2: Scaling Autoregressive Multimodal Models with Vision, Language, Audio, and Action

Jiasen Lu*, Christopher Clark*, **Sangho Lee***, Zichen Zhang*, Savya Khosla, Ryan Marten, Derek Hoiem, and Aniruddha Kembhavi (*: equal contribution)

Conference on Computer Vision and Pattern Recognition 2024 (CVPR 2024)

Can Language Models Laugh at YouTube Short-form Videos?

Dayoon Ko, Sangho Lee, and Gunhee Kim

The 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP 2023)

ACAV100M: Automatic Curation of Large-Scale Datasets for Audio-Visual Video Representation Learning

Sangho Lee*, Jiwan Chung*, Youngjae Yu, Gunhee Kim, Thomas Breuel, Gal Chechik, and Yale Song (*: equal contribution)

International Conference on Computer Vision 2021 (ICCV 2021)

CVPR 2021: The Third Workshop on Learning from Unlabeled Videos

Unsupervised Representation Learning via Neural Activation Coding

Yookoon Park, Sangho Lee, Gunhee Kim, and David Blei

The Thirty-eighth International Conference on Machine Learning (ICML 2021)

Parameter Efficient Multimodal Transformers for Video Representation Learning

Sangho Lee, Youngjae Yu, Gunhee Kim, Thomas Breuel, Jan Kautz, and Yale Song

The Ninth International Conference on Learning Representations (ICLR 2021)

CVPR 2021: The Second Intertional Workshop on Large Scale Holistic Video Understanding

Self-Supervised Learning of Compressed Video Representations

Youngjae Yu*, Sangho Lee*, Gunhee Kim, and Yale Song (*: equal contribution)

The Ninth International Conference on Learning Representations (ICLR 2021)

A Memory Network Approach for Story-based Temporal Summarization of 360° Videos

Sangho Lee, Jinyoung Sung, Youngjae Yu, and Gunhee Kim

Conference on Computer Vision and Pattern Recognition 2018 (CVPR 2018)

ECCV 2018 Workshop on 360° Perception and Interaction

A Deep Ranking Model for Spatio-temporal Highlight Detection from a 360° Video

Youngjae Yu, Sangho Lee, Joonil Na, Jaeyoun Kang, and Gunhee Kim

The Thirty-Second AAAI Conference on Artificial Intelligence (AAAI-18)

A Read-Write Memory Network for Movie Story Understanding

Seil Na, Sangho Lee, Jisung Kim, and Gunhee Kim

International Conference on Computer Vision 2017 (ICCV 2017)

ICCV 2017: The Joint Video and Language Understanding Workshop

Encoding Video and Label Priors for Multi-label Video Classification on YouTube-8M dataset

Seil Na, Youngjae Yu, Sangho Lee, Jisung Kim, and Gunhee Kim

CVPR 2017 Workshop on YouTube-8M Large-Scale Video Understanding

PROFESSIONAL ACTIVITIES

Workshop Organization and Committee

Workshop on on Video-Language Models at NeurIPS 2024 (1st)

Journal Review

Transactions on Machine Learning Research (TMLR) 2024/2023

Conference Review

CVPR 2024/2022/2021

ICCV 2023

ECCV 2024/2022

NeurIPS 2024/2023

ICML 2024

ICLR 2025/2024/2023/2021

AAAI 2023

Workshop Paper Review

NeurIPS Workshop on Self-Supervised Learning – Theory and Practice 2024/2023/2022

AWARDS

Excellent Ph.D. Thesis Award

Feb. 2023

Selected as the best doctoral thesis by Department of Computer Science and Engineering, Seoul National University

Naver Ph.D. Fellowship

Dec. 2021

Awarded to outstanding graduate students in the field of Computer Science for their exceptional academic research

Youlchon AI Star Fellowship

Sep. 2021

An award for those who made distinguished research achievements in core AI fields

MovieQA Challenge @ ICCV 2017 Workshop

Oct. 2017

ICCV 2017 Workshop on the Joint Video and Language Understanding Workshop Ranked 2nd place

Google Cloud & YouTube-8M Video Understanding Challenge

Jul. 2017

CVPR 2017 Workshop on YouTube-8M Large-Scale Video Understanding Ranked 8th place out of 655 teams (Top 2%)

ACADEMIC EXPERIENCE

Graduate	Teaching	Assistant	at	SNU
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Knowledge Representation and Reasoning (M1522.001300)

Probabilistic Graphical Models (M1522.001300)

Fall 2017

Discrete Mathematics (4190.101)

Spring 2017