

SANGHO LEE

sanghol@allenai.org | Homepage: <https://sangho-vision.github.io/>

EDUCATION

PRIOR @ Allen Institute for AI

Postdoctoral Researcher (Young Investigator)

Jan. 2023 - Present

Seoul National University

Doctor of Philosophy (Ph.D)

Department of Computer Science and Engineering

Advisor: Prof. Gunhee Kim

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

Mar. 2017 - Feb. 2023

Overall GPA: 4.27 / 4.3

Seoul National University

Bachelor of Science

Department of Computer Science and Engineering

Minor in Statistics

Graudated *summa cum laude*

Mar. 2010 - Feb. 2017

Overall GPA: 4.04 / 4.3

RESEARCH INTERESTS

Computer Vision, Machine Learning

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

PUBLICATIONS

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)

preprint

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

WORK EXPERIENCE

PRIOR @ Allen Institue for AI

Research Intern

March-June, August-December 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

Knowledge Representation and Reasoning (M1522.001300)

Fall 2018

Probabilistic Graphical Models (M1522.001300)

Fall 2017

Discrete Mathematics (4190.101)

Spring 2017