

# SANGHO LEE

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## EDUCATION

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### Seoul National University

Ph.D Student

Department of Computer Science and Engineering

Advisor: Prof. Gunhee Kim

*Mar. 2017 - Present (Graduation: Feb. 2023)*

Overall GPA: 4.27 / 4.3

### Seoul National University

Bachelor of Science

Department of Computer Science and Engineering

Minor in Statistics

*Mar. 2010 - Feb. 2017*

Overall GPA: 4.04 / 4.3

## RESEARCH INTERESTS

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Computer Vision, Machine Learning

Focus on high-level video understanding and reasoning by exploring the spatio-temporal representations and semantics of target videos

## PUBLICATIONS

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### 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 International 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**

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**PRIOR @ Allen Institue for AI**

Research Intern

March-June, August-December 2022

**AWARDS**

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Ranked 2nd place in the MovieQA challenge at ICCV 2017: The Joint Video and Language Understanding Workshop

Ranked 8th place out of 655 teams (Top 2%) in the Google Cloud & YouTube-8M Video Understanding Challenge 2017

**ACADEMIC EXPERIENCE**

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**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