

Jungin Park

PH.D. CANDIDATE · YONSEI UNIVERSITY

Digital Image Media Lab., C129, The 3rd Engineering Building, Yonsei-ro 50, Seodaemun-gu, Seoul, Rep. of KOREA

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Interests

- Main Topics** Computer vision, video understanding, multimodal learning.
- Current Focus** Vision-language/video-language model, parameter-efficient transfer learning, large-scale foundation model.

Education

Yonsei University

PH.D. CANDIDATE IN DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING

- Advised by Prof. Kwanghoon Sohn

Seoul, S.Korea

Mar. 2018 - Present

Yonsei University

B.E. IN DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING

Seoul, S.Korea

Mar. 2012 - Feb. 2018

Publication

SELECTED PUBLICATIONS

“Dual-path Adaptation from Image to Video Transformers”

JUNGIN PARK*, JIYOUNG LEE*, AND KWANGHOON SOHN

Jun. 2023

- IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR).

“Probabilistic Representations for Video Contrastive Learning”

JUNGIN PARK, JIYOUNG LEE, IG-JAE KIM, AND KWANGHOON SOHN

Jun. 2022

- IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR).

“Bridge to Answer: Structure-aware Graph Interaction Network for Video Question Answering”

JUNGIN PARK, JIYOUNG LEE, AND KWANGHOON SOHN

Jun. 2021

- IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR).

“SumGraph: Video Summarization via Recursive Graph Modeling”

JUNGIN PARK*, JIYOUNG LEE*, IG-JAE KIM, AND KWANGHOON SOHN (* INDICATES EQUAL CONTRIBUTION.)

Aug. 2020

- European Conference on Computer Vision (ECCV).

INTERNATIONAL CONFERENCE

“Knowing Where to Focus: Event-aware Transformer for Video Grounding”

JINHYUN JANG, JUNGIN PARK, JIN KIM, HYEONGJUN KWON, AND KWANGHOON SOHN

Oct. 2023

- IEEE/CVF International Conference on Computer Vision (ICCV).

“Dual-path Adaptation from Image to Video Transformers”

JUNGIN PARK*, JIYOUNG LEE*, AND KWANGHOON SOHN

Jun. 2023

- IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR).

“PartMix: Regularization Strategy to Learn Part Discovery for Visible-Infrared Person Re-identification”

MINSU KIM, SEUNGRYONG KIM, JUNGIN PARK, SEONGHEON PARK, AND KWANGHOON SOHN

Jun. 2023

- IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR).

“Language-free Training for Zero-shot Video Grounding”

DAHYE KIM, JUNGIN PARK, JIYOUNG LEE, SEONGHEON PARK, AND KWANGHOON SOHN

Jan. 2023

- IEEE/CVF Winter Conference on Applications of Computer Vision (WACV).

“PointFix: Learning to Fix Domian Bias for Robust Online Stereo Adaptation”

KWONYOUNG KIM, JUNGIN PARK, JIYOUNG LEE, DONGBO MIN, AND KWANGHOON SOHN

Oct. 2022

- European Conference on Computer Vision (ECCV).

“Probabilistic Representations for Video Contrastive Learning”

JUNGIN PARK, JIYOUNG LEE, IG-JAE KIM, AND KWANGHOON SOHN

Jun. 2022

- IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR).

“Pin the Memory: Learning to Generalize Semantic Segmentation”

JIN KIM, JIYOUNG LEE, JUNGIN PARK, DONGBO MIN, AND KWANGHOON SOHN

Jun. 2022

- IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR).

“Self-Balanced Learning for Domain Generalization”

JIN KIM, JIYOUNG LEE, JUNGIN PARK, DONGBO MIN, AND KWANGHOON SOHN

Sep. 2021

- IEEE International Conference on Image Processing (ICIP).

“Bridge to Answer: Structure-aware Graph Interaction Network for Video Question Answering”

JUNGIN PARK, JIYOUNG LEE, AND KWANGHOON SOHN

Jun. 2021

- IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR).

“Cross-Domain Grouping and Alignment for Domain Adaptive Semantic Segmentation”

MINSU KIM, SUNGHUN JOUNG, SEUNGRYONG KIM, JUNGIN PARK, IG-JAE KIM, AND KWANGHOON SOHN

Dec. 2020

- Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI).

“SumGraph: Video Summarization via Recursive Graph Modeling”

JUNGIN PARK*, JIYOUNG LEE*, IG-JAE KIM, AND KWANGHOON SOHN (* INDICATES EQUAL CONTRIBUTION.)

Aug. 2020

- European Conference on Computer Vision (ECCV).

“Context-Aware Emotion Recognition Networks”

JIYOUNG LEE, SEUNGRYONG KIM, SUNOK KIM, JUNGIN PARK, AND KWANGHOON SOHN

Oct. 2019

- IEEE International Conference on Computer Vision (ICCV).

“Video Summarization by Learning Relationships between Action and Scene”

JUNGIN PARK, JIYOUNG LEE, SANGRYUL JEON, SEUNGRYONG KIM, AND KWANGHOON SOHN

Oct. 2019

- IEEE International Conference on Computer Vision Workshop (ICCV Workshop-CoView).

“Graph Regularization Network with Semantic Affinity for Weakly-supervised Temporal Action Localization”

JUNGIN PARK, JIYOUNG LEE, SANGRYUL JEON, SEUNGRYONG KIM, AND KWANGHOON SOHN

Sep. 2019

- IEEE International Conference on Image Processing (ICIP), Oral Presentation

“Learning to Detect, Associate, and Recognize Human Actions and Surrounding Scenes in Untrimmed Videos”

JUNGIN PARK, SANGRYUL JEON, SEUNGRYONG KIM, JIYOUNG LEE, SUNOK KIM, AND KWANGHOON SOHN

Oct. 2018

- ACM Multimedia Workshop - The 1st Workshop and Challenge on Comprehensive Video Understanding in the Wild (ACMMM Workshop).

PREPRINT

“Language-Guided Recursive Spatiotemporal Graph Modeling for Video Summarization”

JUNGIN PARK, JIYOUNG LEE, AND KWANGHOON SOHN

Dec. 2022 (Submitted)

- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI). (Under Review)

“SimOn: A Simple Framework for Online Temporal Action Localization”

TUAN N. TANG, JUNGIN PARK, KWONYOUNG KIM, AND KWANGHOON SOHN

Nov. 2022

- arXiv preprint arXiv:2211.04905

Honors & Awards

2023 Academic Research Fellowship,

Yonsei University

2019 Outstanding 100 National Research Projects, Research Assistant

Ministry of Science
and ICT, S. Korea

2019 3rd Award, The 2nd Workshop and Challenge on Comprehensive Video Understanding in the Wild (CoVieW 2019 ICCV Challenge)

ICCVW

2019 2nd Award, Workshop on Frontiers of Electrical Engineering (FREE) 2019

Yonsei University

Talks

2023	Poster Presentation , Korean Conference on Computer Vision (KCCV)	KCVS
2023	Doctoral Colloquium , Korean Conference on Computer Vision (KCCV)	KCVS
2022	Poster Presentation , Korean Conference on Computer Vision (KCCV)	KCVS
2022	AI Tech Talk , Naver CLOVA	Naver Corporation
2021	AI Author Meetup , Naver AI LAB	Naver Corporation
2021	Online Presentation , Korean Conference on Computer Vision (KCCV)	KCVS

Research Projects

Development of Multimodal-based General-purpose Social Artificial Intelligence Technology

Seoul, S.Korea

FUNDED BY YONSEI UNIVERSITY-YONSEI SIGNATURE RESEARCH CLUSTER.

Apr. 2022 - Present

- Developed an algorithm for computer vision with multi-modal data.

Development of Complex Situational Awareness and Prediction Technology through Multi-modal Data Fusion and Social Artificial Intelligence

Seoul, S.Korea

FUNDED BY MINISTRY OF SCIENCE, MID-LEVEL RESEARCH.

Mar. 2021 - Present

- Developed an algorithm for computer vision with multi-modal data.

Development of AI Technology for Continuously Improves according to the Changing Situation in the Real World

Seoul, S.Korea

FUNDED BY INSTITUTE OF INFORMATION & COMMUNICATION TECHNOLOGY.

Apr. 2020 - Mar. 2022

- Developed an algorithm for computer vision with meta-learning.

Fundamental Research of Vision Algorithms for Comprehensive and Thorough Video Understanding

Seoul, S.Korea

FUNDED BY MINISTRY OF SCIENCE, ICT, AND FUTURE PLANNING.

May. 2018 - Dec. 2020

- Developed an algorithm for understanding untrimmed videos.

Patent

“Video Question Answering Apparatus and Method based on Graph Interaction”

JUNGIN PARK AND KWANGHOON SOHN

Jan. 2021

- Korea Patent, 10-2022-0011919

“Video Summarization Apparatus and Method through Recursive Graph Modeling”

JUNGIN PARK AND KWANGHOON SOHN

Dec. 2020

- Korea Patent, 10-2198480. PCT/KR2020/010755

“Video Action Recognition and Localization Apparatus and Method”

JUNGIN PARK AND KWANGHOON SOHN

Oct. 2020

- Korea Patent, 10-2174658, PCT/KR2019/004798

Professional Activities

Reviewer

IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE (TPAMI)
 IEEE/CVF CONFERENCE ON COMPUTER VISION AND PATTERN RECOGNITION (CVPR)
 IEEE/CVF INTERNATIONAL CONFERENCE ON COMPUTER VISION (ICCV)
 EUROPEAN CONFERENCE ON COMPUTER VISION (ECCV)
 AAAI CONFERENCE ON ARTIFICIAL INTELLIGENCE (AAAI)
 IEEE/CVF WINTER CONFERENCE ON APPLICATIONS OF COMPUTER VISION (WACV)
 THE BRITISH MACHINE VISION CONFERENCE (BMVC)

Teaching

Yonsei University, Dept. of Electrical and Electronic Engineering

Seoul, S.Korea

TEACHING ASSISTANT.

Sep. 2018 - Jun. 2019

- Electrical and electronic engineering experiments: fundamentals, Digital signal processing.

Skills

Programming Python, C/C++, Ruby, MATLAB, OpenCV, LaTeX, Linux
Deep learning PyTorch, Tensorflow, Keras
Languages Korean, English