

# Jaeyoo Park

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## Education

### Seoul National University (SNU)

INTEGRATED M.S./PH.D PROGRAM IN ELECTRICAL AND COMPUTER ENGINEERING

- Advisor : Prof. Bohyung Han

Seoul, Korea

Sep. 2018 - Present

### Seoul National University (SNU)

B.S. IN ELECTRICAL AND COMPUTER ENGINEERING

- Compulsory Military Service

Seoul, Korea

Mar. 2012 - Aug. 2018

Aug. 2014 - Aug. 2016

## Research Interest

I am interested in computer vision and deep learning, with an emphasis on multi-modal understanding and video analysis. Since handling multi-modal data and videos can be costly, my research explores efficient processing under limited resources, including continual learning, self-supervised learning, and weakly-supervised learning. Recently, I also have been studying representation of text in images as a unique case of multi-modality, investigating its interaction with visual elements and developing methods for effective extraction and utilization.

## Publication

### Emergence of Text Readability in Vision Language Models

JAEYOO PARK, SANGHYUK CHUN, WONJAE KIM, SANGDOO YUN, BOHYUNG HAN

- EVAL-FoMo 2 Workshop, CVPR 2025.

CVPRW 2025

### Hierarchical Visual Feature Aggregation for OCR-Free Document Understanding

JAEYOO PARK, JINYOUNG CHOI, JEONGHYUNG PARK, BOHYUNG HAN

NeurIPS 2024

### Cross-Class Feature Augmentation for Class Incremental Learning

TAEHOON KIM, JAEYOO PARK, BOHYUNG HAN

- CLVision Workshop, CVPR2024.

AAAI 2024

### Multi-Modal Representation Learning with Text-Driven Soft Masks

JAEYOO PARK, BOHYUNG HAN

- Qualcomm Innovation Fellowship Korea 2023 Winner

CVPR 2023

### End-to-end Learning for Weakly Supervised Video Anomaly Detection using Absorbing Markov Chain

JAEYOO PARK\*, JUNHA KIM\*, BOHYUNG HAN

- Impact Factor : 4.886, Accepted, 2023. (\*:equal contribution)

CVIU

### Class-Incremental Learning by Knowledge Distillation with Adaptive Feature Consolidation

MINSOO KANG, JAEYOO PARK, BOHYUNG HAN

- Oral Presentation

CVPR 2022

### Class-Incremental Learning for Action Recognition in Videos

JAEYOO PARK, MINSOO KANG, BOHYUNG HAN

ICCV 2021

### Rotation-Invariant Local-to-Global Representation Learning for 3D Point Cloud

SEOHYUN KIM, JAEYOO PARK, BOHYUNG HAN

NeurIPS 2020

### Learning to Adapt to Unseen Abnormal Activities under Weak Supervision

JAEYOO PARK\*, JUNHA KIM\*, BOHYUNG HAN

- (\*:equal contribution)

ACCV 2020

## Work Experience

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### Amazon

APPLIED SCIENTIST INTERN

Seattle, WA

July 2025 – October 2025

- Conducted research on the **visual tokenizer for a multimodal foundation model**.
- **Manager** : Davide Modolo
- **Mentors** : Yanbei Chen, Siddharth Choudhary

### Naver AI Lab

RESEARCH INTERN

Seongnam, Korea

June 2024 – November 2024

- Conducted research on the **OCR capability of vision and language models**.
- CVPR 2025 Workshop Publication.
- **Mentors** : Sangdoon Yun, Sanghyuk Chun, Wonjae Kim

### SNU Computer Vision Lab

UNDERGRADUATE INTERN

Seoul, Korea

March 2018 – May 2018

- Developed a **weakly-supervised action localization framework** whose code is not released to the public:  
<https://github.com/bellos1203/STPN>

### Samsung Electro-Mechanics

SOFTWARE ENGINEERING INTERN

Suwon, Korea

Jan 2018 – Feb 2018

- Participated in developing **OIS(Optical Image Stabilization) algorithm** for camera module at Advanced Development Department

### Seoul Southern District Court

COURT GUARD ASSISTANT

Seoul, Korea

Aug. 2014 - Aug. 2016

- Compulsory Military Service

## Honors & Awards

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- 2025 **Top Reviewer**, NeurIPS 2025
- 2024 **Outstanding Reviewer**, CVPR 2024
- 2023 **Qualcomm Innovation Fellowship Korea 2023 Winner**, Qualcomm Technologies, Inc
- 2023 **Youlchon AI Star Scholarship**, Youlchon Foundation & SNU AI Institute
- 2021 **Outstanding Reviewer**, ICCV 2021

## Academic Services

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### Journal Reviewer

TPAMI, CVIU, MVAP

### Conference Reviewer

CVPR, NEURIPS, ECCV, ICCV, ICLR, ICML, AND IROS

## Invited Talks

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### Towards OCR-Free Document Understanding

1-HOUR INVITED TALK AT LOMIN

Seoul, Korea

Feb. 2025

## Industrial Projects

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### Multimodal Learning with Text in Images

COLLABORATION WITH SAMSUNG SDS

Nov 2023 – Oct 2024

- NeurIPS 2024 Publication

### Enhancing Joint Embedding for Image-Text Retrieval

COLLABORATION WITH SAMSUNG SDS

Jan 2022 – Dec 2022

- CVPR 2023 Publication

### Detecting Abnormal Events in Videos under Limited Supervision

COLLABORATION WITH SK TELECOM

Jul 2019 – Mar 2020

- ACCV 2020 Publication

## Teaching Experience

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### Introduction to Algorithms (ECE 430.329)

TEACHING ASSISTANT

Seoul National University

Fall 2018, Fall 2019

### Advanced Computer Vision Course

TEACHING ASSISTANT

- Object Segmentation, Action Recognition

Samsung Electronics

Apr 2019, Jul 2019

### Advanced Computer Vision Course

TEACHING ASSISTANT

- Object Segmentation

LG Electronics

Feb 2019

### Introduction to Deep Learning

TEACHING ASSISTANT

- Tensorflow basic, CNNs

Seoul Big Data Academy (SNU)

Jan 2019

## Extracurricular Activity

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### School Mentoring Program

PROGRAM LEADER

- Served as a leader of a volunteer program for freshmen international students

Seoul National University

Feb 2018 – Jun 2018

## Skills

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### Language

KOREAN, ENGLISH

### Programming

PYTHON, C++/C, MATLAB, TENSORFLOW, PYTORCH, L<sup>A</sup>T<sub>E</sub>X

## References

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### Advisor : Prof. Bohyung Han

SEOUL NATIONAL UNIVERSITY

- bhhan@snu.ac.kr
- <https://cv.snu.ac.kr/index.php/bhhan/>

### Affiliation : SNU Computer Vision Lab

SEOUL NATIONAL UNIVERSITY

- <https://cv.snu.ac.kr>