Jaeyoo Park

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Education

Seoul National University (SNU)   *Seoul, Korea*
Integrated M.S./Ph.D program in Electrical and Computer Engineering   *Sep. 2018 - Present*
- Advisor : **Prof. Bohyung Han**

Seoul National University (SNU)   *Seoul, Korea*
B.S. in Electrical and Computer Engineering   *Mar. 2012 - Aug. 2018*
- Compulsory Military Service   *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. From the fact that frameworks handling multi-modal data and videos cost much, my research topics also include dealing with data under limited conditions, such as continual learning, self-supervised learning, and weakly-supervised learning.

Publication

Cross-Class Feature Augmentation for Class Incremental Learning   *AAAI 2024*
Taehoon Kim, **Jaeyoo Park**, Bohyung Han

Multi-Modal Representation Learning with Text-Driven Soft Masks   *CVPR 2023*
Jaeyoo Park, Bohyung Han
- Qualcomm Innovation Fellowship Korea 2023 Winner

End-to-end Learning for Weakly Supervised Video Anomaly Detection using Absorbing Markov Chain   *CVIU*
Jaeyoo Park*, Junha Kim*, Bohyung Han
- **Impact Factor : 4.886**, Accepted, 2023. (*:equal contribution)

Class-Incremental Learning by Knowledge Distillation with Adaptive Feature Consolidation   *CVPR 2022*
Minsoo Kang, **Jaeyoo Park**, Bohyung Han
- **Oral** Presentation

Class-Incremental Learning for Action Recognition in Videos   *ICCV 2021*
Jaeyoo Park, Minsoo Kang, Bohyung Han

Rotation-Invariant Local-to-Global Representation Learning for 3D Point Cloud   *NeurIPS 2020*
Seohyun Kim, **Jaeyoo Park**, Bohyung Han

Learning to Adapt to Unseen Abnormal Activities under Weak Supervision   *ACCV 2020*
Jaeyoo Park*, Junha Kim*, Bohyung Han
(*:equal contribution)

Honors & Awards

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

Journal Reviewer
TPAMI, CVIU, MVAP
Conference Reviewer
CVPR, NeurIPS, ECCV, ICCV, ICLR, ICML, and IROS

Industrial Projects

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

Work Experience

SNU Computer Vision Lab   *Seoul, Korea*

UNDERGRADUATE INTERN   *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   *Suwon, Korea*

SOFTWARE ENGINEERING INTERN   *Jan 2018 – Feb 2018*

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

Seoul Southern District Court   *Seoul, Korea*

COURT GUARD ASSISTANT   *Aug. 2014 - Aug. 2016*

- Compulsory Military Service

Teaching Experience

Introduction to Algorithms (ECE 430.329)   *Seoul National University*

TEACHING ASSISTANT   *Fall 2018, Fall 2019*

Advanced Computer Vision Course   *Samsung Electronics*

TEACHING ASSISTANT   *Apr 2019, Jul 2019*

- Object Segmentation, Action Recognition

Advanced Computer Vision Course   *LG Electronics*

TEACHING ASSISTANT   *Feb 2019*

- Object Segmentation

Introduction to Deep Learning   *Seoul Big Data Academy (SNU)*

TEACHING ASSISTANT   *Jan 2019*

- Tensorflow basic, CNNs

Extracurricular Activity

School Mentoring Program   *Seoul National University*

PROGRAM LEADER   *Feb 2018 – Jun 2018*

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

Skills

Language

KOREAN, ENGLISH

Programming

PYTHON, C++/C, MATLAB, TENSORFLOW, PYTORCH, LATEX

References

Advisor : Prof. Bohyung Han

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

Affiliation : SNU Computer Vision Lab

SEOUL NATIONAL UNIVERSITY

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