

# MoonJeong Park

PH.D. STUDENT @ MACHINE LEARNING LAB.

Machine Learning Laboratory, POSTECH, 77 Cheongam-ro, Pohang, Gyeongbuk, South Korea 37673

✉ mjeongp@postech.ac.kr | 🏠 jeong27.github.io/ | 🎓 Google Scholar

## Education

### POSTECH (Pohang University of Science and Technology)

PH.D STUDENT IN GRADUATE SCHOOL OF ARTIFICIAL INTELLIGENCE

- Advisor: Prof. Dongwoo Kim
- Cumulative GPA: 3.8 / 4.3

Pohang, South Korea

Feb. 2022 - Present

### POSTECH (Pohang University of Science and Technology)

M.S IN COMPUTER SCIENCE AND ENGINEERING

- Advisor: Prof. Dongwoo Kim
- Cumulative GPA: 4.0 / 4.3

Pohang, South Korea

Feb. 2020 - Feb. 2022

### DGIST (Daegu Gyeongbuk Institute of Science and Technology)

B.S. IN SCHOOL OF UNDERGRADUATE STUDIES

- Cumulative GPA: 3.66 / 4.3

Daegu, South Korea

Mar. 2014 - Sep. 2019

## Publication

### • The Oversmoothing Fallacy: A Misguided Narrative in GNN Research

2025

MOONJEONG PARK, SUNGHYUN CHOI, JAESEUNG HEO, EUNHYEOK PARK, AND DONGWOO KIM

arxiv preprint

### • Influence Functions for Edge Edits in Non-Convex Graph Neural Networks

2025

JAESEUNG HEO, KYEONGHEUNG YUN, SEOKWON YOON, MOONJEONG PARK, JUNGSEUL OK, DONGWOO KIM

arxiv preprint

### • CoPL: Collaborative Preference Learning for Personalizing LLMs

2025

YOUNGBIN CHOI, SEUNGHYUK CHO, MINJONG LEE, MOONJEONG PARK, YESONG KO, JUNGSEUL OK, AND DONGWOO KIM

ICLR Workshop on Bidirectional Human↔AI alignment (Bi-Align)

### • Taming Gradient Oversmoothing and Expansion in Graph Neural Networks

2024

MOONJEONG PARK AND DONGWOO KIM

arxiv preprint

### • Posterior Label Smoothing for Node Classification

2024

JAESEUNG HEO, MOONJEONG PARK AND DONGWOO KIM

arxiv preprint

### • Mitigating Oversmoothing Through Reverse Process of GNNs for Heterophilic Graphs

2024

MOONJEONG PARK, JAESEUNG HEO AND DONGWOO KIM

International Conference on Machine Learning (ICML)

### • SpReME: Sparse Regression for Multi-Environment Dynamic Systems

2023

MOONJEONG PARK\*, YOUNGBIN CHOI\* AND DONGWOO KIM (\*EQUAL CONTRIBUTION)

AAAI Workshop on When Machine Learning meets Dynamical Systems: Theory and Applications (MLmDS)

### • MetaSSD: Meta-Learned Self-Supervised Detection

2022

MOONJEONG PARK, JUNGSEUL OK, YO-SEB JEON AND DONGWOO KIM

IEEE International Symposium on Information Theory (ISIT)

- **Large-scale tucker Tensor factorization for sparse and accurate decomposition**

2022

JUN-GI JANG\*, MOONJEONG PARK\*, AND LEE SAEI (\*EQUAL CONTRIBUTION)

*The Journal of Supercomputing (SUPE)*

- **VEST: Very Sparse Tucker Factorization of Large-Scale Tensors**

2021

MOONJEONG PARK\*, JUN-GI JANG\*, AND LEE SAEI (\*EQUAL CONTRIBUTION)

*IEEE International Conference on Big Data and Smart Computing (BigComp), Best Paper Award (1st Place)*

## Experience

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### Machine Learning Lab, POSTECH

*Pohang, South Korea*

RESEARCH ASSISTANT

*Mar. 2020 - Present*

- Participate in research projects about graph neural networks.

### Data Mining Lab, Seoul National University

*Seoul, South Korea*

RESEARCH INTERNSHIP

*June. 2018 - January. 2019*

- Advisor: Prof. U Kang.
- A Study on Sparse Tucker Factorization for Large-scale Tensor.

### Multi-Scale Robotics Lab, ETH Zurich

*Switzerland*

RESEARCH INTERNSHIP

*June. 2016 - July. 2016*

- Advisor: Prof. Bradley Nelson.
- A Study on Fabrication of Microrobot to Acquire Single Cell.

### Rehabilitation Engineering Lab, DGIST

*Daegu, South Korea*

RESEARCH INTERNSHIP

*June. 2015 - July. 2015*

- Advisor: Prof. Pyung-Hun Jang.
- A Study on Robot Rehabilitation Based on Brain Plasticity.

## Honors & Awards

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2025 **Excellence Award at BK21 Paper Award**, POSTECH GSAI

*Pohang, S. Korea*

2021 **Best Paper Award, 1st Place**, IEEE BigComp

*Jeju, S. Korea*

## Teaching Experience

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- **Teaching Assistant in External Courses**

POSCO, AI Expert Training Course (Aug. 2020, May. 2021, May. 2022)

- **Teaching Assistant in POSTECH**

CSED515, Machine Learning (Spring 2023)

CSED703, Deep Generative Model (Fall 2022)

AIGS101, Artificial Intelligence Basics I (Spring 2021)