

Jabin Koo

Integrated PhD Student, Department of Computer Science and Engineering
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Education

Pohang University of Science and Technology (POSTECH), Pohang, South Korea

Jul. 2021 – Present

Integrated MS / PhD, Dept. of Computer Science and Engineering

Machine Learning Lab, advised by Prof. Jungseul Ok

Gwangju Institute of Science and Technology (GIST), Gwangju, South Korea

Mar. 2015 – Jun. 2021

B.S., School of Electrical Engineering and Computer Science

Publications

Federated Variational Preference Alignment with Gumbel–Softmax Prior for Personalized User Preferences

Jabin Koo, Hoyoung Kim, Minwoo Jang, Jungseul Ok

International Conference on Machine Learning (ICML), 2026 [\[arXiv\]](#)

Making Models Unmergeable via Scaling-Sensitive Loss Landscape

Minwoo Jang, Hoyoung Kim, Jabin Koo, Jungseul Ok

International Conference on Machine Learning (ICML), 2026 [\[arXiv\]](#)

ChimeraLoRA: Multi-Head LoRA-Guided Synthetic Datasets

Hoyoung Kim, Minwoo Jang, Jabin Koo, Sangdoo Yun, Jungseul Ok

IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2026 [\[arXiv\]](#)

Towards Robust and Efficient Federated Low-Rank Adaptation with Heterogeneous Clients

Jabin Koo*, Minwoo Jang*, Jungseul Ok (*equal contribution)

Annual Meeting of the Association for Computational Linguistics (ACL) – **Oral**, 2025 [\[arXiv\]](#)

Fast Personalized Pruning in Federated Learning

Hoyoung Kim*, Jabin Koo*, Jinwoo Jeon, Namhoon Lee, Jungseul Ok (*equal contribution)

Korean Artificial Intelligence Association Summer Conference (KAIA) – **Best Paper Award**, 2022

Awards & Scholarships

Best Paper Award

2022

Korean Artificial Intelligence Association (KAIA) Summer Conference
Pruning in Federated Learning”

For “Fast Personalized

Academic Service

Reviewer

- Conference on Neural Information Processing Systems (NeurIPS), 2026
- International Conference on Learning Representations (ICLR), 2026
- ACL Rolling Review (ARR), March 2026 cycle

Patents

Alternating Freeze for Federated Learning in Local Devices

로컬 장치의 교차 동결 학습 방법 및 이를 실행하는 로컬 장치

Inventor: 구자빈 (Jabin Koo)

Application No. 10-2025-0159585, 2025

Adaptive Rank Selection for Federated Learning in Local Devices

로컬 장치의 적응형 학습 방법 및 이를 실행하는 로컬 장치

Inventor: 구자빈 (Jabin Koo)

Application No. 10-2025-0159549, 2025

Teaching Experience

Teaching Assistant, CSED 101: Programming and Problem Solving

Spring 2026

Pohang University of Science and Technology (POSTECH)

Teaching Assistant, CSED 515: Machine Learning

Fall 2024

Pohang University of Science and Technology (POSTECH)

Teaching Assistant, AI Expert Training Course

Summer 2023

POSCO (external industry training)