# Hoyoung Kim

Graduate School of Artificial Intelligence
POSTECH (Pohang University of Science and Technology)

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## EDUCATION

**POSTECH**                                                                            *Pohang, South Korea*
*Integrated M.S./Ph.D in Graduate School of Artificial Intelligence*              Oct, 2020 - Present

**POSTECH**                                                                            *Pohang, South Korea*
*B.S in Computer Science and Engineering*                                          Mar, 2016 - Aug, 2020

## PUBLICATIONS

**International**

1. Active Label Correction for Semantic Segmentation with Foundation Models
   **Hoyoung Kim**, Sehyun Hwang, Suha Kwak, Jungseul Ok
   *International Conference on Machine Learning (ICML),* 2024

2. Active Learning for Semantic Segmentation with Multi-class Label Query
   Sehyun Hwang, Sohyun Lee, **Hoyoung Kim**, Minhyeon Oh, Jungseul Ok, and Suha Kwak
   *Neural Information Processing Systems (NeurIPS),* 2023

3. Adaptive Superpixel for Active Learning in Semantic Segmentation
   **Hoyoung Kim**, Minhyeon Oh, Sehyun Hwang, Suha Kwak, and Jungseul Ok
   *International Conference on Computer Vision (ICCV),* 2023

4. Robust Deep Learning from Crowds with Belief Propagation
   **Hoyoung Kim\***, Seunghyuk Cho\*, Dongwoo Kim, and Jungseul Ok
   *International Conference on Artificial Intelligence and Statistics (AISTATS),* 2022

**Domestic**

1. Fast Personalized Pruning in Federated Learning
   **Hoyoung Kim\***, Jabin Koo\*, Jinwoo Jeon, Namhoon Lee, and Jungseul Ok
   *Conference of Korean Artificial Intelligence Association (CKAIA),* 2022

2. Effect of Privacy Preserving in Personalized Federated Learning with Heterogeneous Data from Wearable Devices
   Hyejin Park\*, Byungchan Ko\*, Jaechang Kim\*, **Hoyoung Kim**, Jinwoo Jeon, and Jungseul Ok
   *Proceedings of Korea Software Congress (KSC),* 2021

## AWARDS

- BK 2023 best paper award

- CKAIA 2022 best paper award

## TEACHING ASSISTANT

- CSED515 Machine Learning (2021 Fall, 2022 Fall)

- CSED273 Digital System Design (2023 Spring)

- Hyundai Steel (Jan, 2022)

- POSCO (Aug, 2023)