

Sang-Ho An

M.S. student

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Education

M.S. in Computer Science, Kookmin University, Seoul, Republic of Korea
Supervisor: Prof. [Jang Ho Kim]

Mar. 2024 – Present

B.S. in Computer Science, Kookmin University, Seoul, Republic of Korea

Mar. 2018 – Feb. 2024

Military Service

Republic of Korea Army (ROKA)

Mar. 2020 - Sep. 2021

Research Areas & Expertise

• Model Compression

- Network Pruning: Structured/unstructured pruning for model efficiency and deployment optimization
- Hardware-aware Pruning: Structured pruning techniques for accelerated inference
- Knowledge Distillation: Teacher-student frameworks and feature transfer techniques
- Quantization: Reducing the bit precision of weights and activations (e.g., FP32 to INT8) to decrease model size and accelerate inference

• Computer Vision, Natural Language Processing, Parameter-Efficient Fine-Tuning, Machine Unlearning

Programming Skills & Tools

Primary Languages

- Python, C++, Nim

Deep Learning & ML

- PyTorch, TensorFlow
- Weights & Biases (wandb)
- ONNX, TorchScript

Scientific Computing

- NumPy, SciPy, Pandas
- Matplotlib, Plotly

Optimization & Deployment

- TensorRT, ONNX Runtime
- OpenVINO, cuBLAS

Edge AI Experience

- NVIDIA Jetson (Orin, Xavier, Spark)
- Intel NUC
- Edge Device Deployment

Development Tools

- Git, Docker
- Linux/Ubuntu

Publications

- 2025 “Quantization-Aware Training With Dynamic and Static Pruning”, **Sangho An**, Jongyun Shin, Jangho Kim [[IEEE Access 2025, Accepted](#)]
- 2025 “Sparse Structure Exploration and Re-optimization for Vision Transformer”, **Sangho An**, Jinwoo Kim, Jangho Kim et al [[UAT 2025, Accepted](#)]
- 2025 “Exploring Diverse Sparse Network Structures via Dynamic pruning with Weight Alignment”, Jinwoo Kim, Jongyun Shin, **Sangho An**, Jangho Kim, [[CIKM 2025, Accepted, \(Oral\)](#)]

Publications (Under Review)

- 2025 “Hardware-Aware Grouped Pruning for Efficient Vision Transformers”, **Sangho An**, Hyunjoon Cho, Jangho Kim
2025 “Unlearning-Aware Optimization”, Hyunjoon Cho, **Sangho An**, Jangho Kim
2025 “ESFP: Effective Soft Prompt Fine-Tuning using Parameter-efficient Mixture-of-Experts”, Jongyun Shin, **Sangho An**, Jangho Kim
2025 “Temporal-Aware Quantization via Sequence-Wise Quantizer Bounds Ensembling for Real-World Video Super-Resolutions”, Jinwoo Chung, **Sangho An**, Jangho Kim
2025 “SharedKD: In-Place Knowledge Distillation for Efficient 3D Object Detection”, Hyunjoon Cho, **Sangho An**, Jangho Kim

Recent Talks

- 2025 “The Conference on Uncertainty in Artificial Intelligence (UAI)” at UAI 2025, Rio de Janeiro, Brazil
2025 “MIPAL 2025 Summer Collaborative Research Workshop” at Konjiam Resort, Korea
2025 “The Conference on Information and Knowledge Management (CIKM)” at CIKM 2025, COEX, Seoul, Korea

Research Project

- 2024.4 “Model Lightweighting Research was supported by **Hyundai Motor Company**”
~2025.3
- 2024.12 “Autonomous Driving Technology Research was supported by **Hyundai Motor Company**”
~2025.11
- 2024.3 “Algorithm Development for Shade Matching was supported by **Small and Medium Business Administration**”
~2025.3
- 2024.11 “Model Lightweighting Research was supported by **LG CTO**”
~2025.11
- 2025.07 “Anomaly Detection Research was supported by **POSCO**”
~ Present
- 2025.09 “Large Model Lightweighting Research was supported by **Hyundai Motor Company**”
~ Present

Patent

- 2024 “동적 및 정적 프루닝 기법을 활용한 양자화 인식 학습 장치 및 학습 방법”, 김장호, 안상호, [10-2024-0068090]

Study Groups

SYTEARK Machine Learning Study Group [[SYTEARK](#); [MLStudy](#), [ML2022](#), [ML2021](#)]

2019 – 2024

- Weekly rotational presentations on machine learning journals, topics, and personal research

Teaching Experience

- 2025 Fall TA *Computer Programming II, 1131001, Kookmin University, Seoul, Republic of Korea*