


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
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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 <ul style="list-style-type: none">• Python, C++, Nim Deep Learning & ML <ul style="list-style-type: none">• PyTorch, TensorFlow• Weights & Biases (wandb)• ONNX, TorchScript Scientific Computing <ul style="list-style-type: none">• NumPy, SciPy, Pandas• Matplotlib, Plotly	Optimization & Deployment <ul style="list-style-type: none">• TensorRT, ONNX Runtime• OpenVINO, cuBLAS Edge AI Experience <ul style="list-style-type: none">• NVIDIA Jetson (Orin, Xavier, Spark)• Intel NUC• Edge Device Deployment Development Tools <ul style="list-style-type: none">• Git, Docker• Linux/Ubuntu
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Publications

2025	<i>“Quantization-Aware Training With Dynamic and Static Pruning”</i> , Sangho An, Jongyun Shin, Jangho Kim [IEEE Access 2025, Accepted]
2025	<i>“Sparse Structure Exploration and Re-optimization for Vision Transformer”</i> , Sangho An, Jinwoo Kim, Jangho Kim et al [UAI 2025, Accepted]
2025	<i>“Exploring Diverse Sparse Network Structures via Dynamic pruning with Weight Alignment”</i> , 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*