

Beomjin Seo

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WORK EXPERIENCE

Samsung Electronics, South Korea Jul 2022 – Present

AI Core Team / Samsung Research

- Model Training and Evaluation for On-device LMM (AI Core Team, Jan 2026 – Present)
- Training and Evaluating Large Language Models
 - trained LLMs on multi-node GPUs and evaluated them across multiple benchmarks
 - performed post-training for LLMs (data mix strategies, synthetic data generation pipelines, and agentic model development)
- Semantic Deep Search model for TV manuals
 - processed and prepared domain-specific datasets
 - trained task-specific deep search models and compressed model weights

KAIST AI graduate school Research Internship, South Korea Jul 2021 – Aug 2021

Research Intern, Edward's laboratory (mentor: Prof. Edward Choi)

- Worked on developing a multimodal dataset from Wikipedia and running a PoC with it.

KIST Europe Forschungsgesellschaft mbH, Saarbrücken, Germany Feb 2020 – Aug 2020

Research Intern, Smart Convergence Group (mentor: Dr. Sangrak Lim)

- Worked on QSAR model developments and molecular docking models via using graph attentional network models.

PROJECTS

LLM Pretraining for Efficient On-device Model Mar 2026 – Present

- Experimented with efficient training setups in multi-node GPU environments.
- Conducted distributed-training experiments using Megatron-LM.

LMM Pretraining for On-device Model Jan 2026 – Present

- Jointly trained and experimented with vision and text modalities.
- Proposed a training methodology that accounts for quantization.

LLM Post-training: from SFT to RL variants Mar 2025 – Dec 2025

- Ran experiments spanning SFT for large-scale models to RLVR and OPD-style methods.

Binding Affinity Prediction using Graph Neural Networks with Attention May 2020 – Aug 2020

- As a main researcher, developed a graph attentional model to predict binding affinity between proteins and ligands; our model outperformed other ML-based models.
- Offered a visual explanation of the model's inference through an attention map, confirming the model focused on meaningful binding positions.

EDUCATION

Kyung Hee University, Yongin, Republic of Korea Mar 2015 – Feb 2022

B.S in Software Convergence & Biomedical Engineering (GPA 4.1/4.5)

EXTRACURRICULAR ACTIVITIES

- Teaching Assistant, Kyung Hee University (Fall 2019) — Assisted with Python programming questions (SWCON104).
- Participation in the Software Festival, Kyung Hee University (Fall 2019) — with the MRI super-resolution project.
- Study Group Leader of Data Structure course (CSE204), Kyung Hee University (Fall 2019).
- Education Volunteering in Rwanda, Kyung Hee University (13–22 July 2019).