Jungwoo Park

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LinkedIn | **GitHub** | **Google Scholar** | **Kaggle**

EDUCATION

Korea University *Seoul, South Korea*
Ph.D. in Computer Science and Engineering *Sep. 2024 – Present*
- Advisor: Prof. Jaewoo Kang

Kwangwoon University *Seoul, South Korea*
B.S. in Information Convergence *Mar. 2018 – Feb. 2024*
- Overall GPA of 4.17/4.5, Major GPA of 4.43/4.5
- Full-ride merit scholarships × 2, one-quarter tuition scholarships × 3

RESEARCH INTERESTS

LLMs, Pre-Training, Mechanistic Interpretability

PUBLICATIONS

1. Yein Park, **Jungwoo Park**, Jaewoo Kang, "ASGuard: Activation-Scaling Guard to Mitigate Targeted Jailbreaking Attack," *Submitted to ICLR 2026*

2. Sihyeon Park, **Jungwoo Park**, Hyunjae Kim, Jaewoo Kang, Bumsoo Kim, "Efficient Patch Search in Whole Slide Images via Morphological Momentum Prototype Learning," *Submitted to ICLR 2026*

3. Taewhoo Lee, Minju Song, Chanwoong Yoon, **Jungwoo Park**, Jaewoo Kang, "The Curious Case of Analogies: Investigating Analogical Reasoning in Large Language Models," *Submitted to AAAI 2026*

4. Jaehoon Yun*, Jiwoong Sohn*, **Jungwoo Park***, Hyunjae Kim, Xiangru Tang, Yanjun Shao, Yonghoe Koo, Minhyeok Ko, Qingyu Chen, Mark Gerstein, Michael Moor, Jaewoo Kang, "Med-PRM: Medical Reasoning Models with Stepwise, Guideline-verified Process Rewards," *EMNLP 2025*

5. **Jungwoo Park**, Taewhoo Lee, Chanwoong Yoon, Hyeon Hwang, Jaewoo Kang, "Outlier-Safe Pre-Training for Robust 4-Bit Quantization of Large Language Models," *ACL 2025*

6. Yein Park, Chanwoong Yoon, **Jungwoo Park**, Minbyul Jeong, Jaewoo Kang, "Does Time Have Its Place? Temporal Heads: Where Language Models Recall Time-specific Information," *ACL 2025*

7. Hyunjae Kim, Hyeon Hwang, Jiwoo Lee, Sihyeon Park, Dain Kim, Taewhoo Lee, Chanwoong Yoon, Jiwoong Sohn, **Jungwoo Park**, Olga Reykhart, Thomas Fetherston, Donghee Choi, Soo Heon Kwak, Qingyu Chen, Jaewoo Kang, "Small language models learn enhanced reasoning skills from medical textbooks," *NPJ digital medicine 8.1 (2025): 240*

8. **Jungwoo Park***, Young Jin Ahn*, Kee-Eung Kim, Jaewoo Kang, "Monet: Mixture of Monosemantic Experts for Transformers," *ICLR 2025*

9. Yein Park, Chanwoong Yoon, **Jungwoo Park**, Donghyeon Lee, Minbyul Jeong, Jaewoo Kang, "ChroKnowledge: Unveiling Chronological Knowledge of Language Models in Multiple Domains," *ICLR 2025*

10. Youngjin Ahn*, **Jungwoo Park***, Sangha Park, Jonghyun Choi, Kee-Eung Kim, "SyncVSR: Data-Efficient Visual Speech Recognition with End-to-End Crossmodal Audio Token Synchronization," *Interspeech 2024*

PROJECTS

Jax/Flax Re-implementation of DeiT and DeiT-III [GitHub] *Mar. 2024*
- Reproduction of ViT training on ImageNet-1k and ImageNet-21k with DeiT and DeiT-III recipes.
- Trained on a TPU v4-64 pod slice, supported by the TPU Research Cloud program.

Jax/Flax Inference Codes for LLMs on TPU [GPT-NeoX] [StarCoder] *Jun. 2023*
- Implementation of GPT-NeoX (Polyglot) and StarCoder (GPTBigCode) models using Jax/Flax.
- Applied Tensor Parallelism to facilitate up to 30B models on a TPU-v3-8 node.

Korean GPT-2 Pre-Training [GitHub] [Demo] *Sep. 2020*
- A pure PyTorch implementation of GPT-2 for simple, easy and comprehensible code.
- Trained 300M model with 30GB korean corpus (5B tokens) on 2×V100 GPUs for 24 days.

COMPETITIONS	**Kaggle Competitions**	
	Kaggle Master (highest rank of 54th)	

- Feedback Prize - Evaluating Student Writing [Overview] [GitHub] — *Mar. 2022*
  ***Gold Medal** (4th place / 2,058 teams)*
- Google - American Sign Language Fingerspelling Recognition [Overview] [GitHub] — *Aug. 2023*
  ***Gold Medal** (5th place / 1,315 teams)*
- G2Net Detecting Continuous Gravitational Waves [Overview] [GitHub] — *Jan. 2023*
  Silver Medal (12th place / 936 teams)
- Learning Equality - Curriculum Recommendations [Overview] — *Mar. 2023*
  Silver Medal (13rd place / 1,057 teams)
- Benetech‑Making Graphs Accessible [Overview] — *Jun. 2023*
  Silver Medal (26th place / 608 teams)
- Google AI4Code – Understand Code in Python Notebooks [Overview] [GitHub] — *Nov. 2022*
  Silver Medal (39th place / 1,135 teams)
- Feedback Prize - Predicting Effective Arguments [Overview] [GitHub] — *Aug. 2022*
  Silver Medal (40th place / 1,557 teams)
- CommonLit Readability Prize [Overview] [GitHub] — *Aug. 2021*
  Silver Medal (42nd place / 3,633 teams)
- Bristol-Myers Squibb – Molecular Translation [Overview] [GitHub] — *Jun. 2021*
  Silver Medal (50th place / 874 teams)
- Riiid Answer Correctness Prediction [Overview] [GitHub] — *Jan. 2021*
  Silver Medal (78th place / 3,406 teams)
- Humpback Whale Identification [Overview] — *Mar. 2019*
  Bronze Medal (189th place / 2,120 teams)
- Quick, Draw! Doodle Recognition Challenge [Overview] — *Dec. 2018*
  Bronze Medal (74th place / 1,309 teams)

AWARDS	**Academic Awards**	

- **Dean's List** in the 5th semester of B.S. — *Oct. 2022*
- **Dean's List** in the 3rd semester of B.S. — *Oct. 2021*

ACADEMIC REVIEWING	**2025**: ICLR, ARR, ICCV
	2024: ICLR

LANGUAGE	**Korean:** Native
	English: Fluent (TOEIC 920)