



Hyoungjoo Kim

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<https://hyoungjook.github.io>



RESEARCH INTERESTS

Software Systems for Heterogeneous Computer Systems

EDUCATION

- **Carnegie Mellon University**, Pittsburgh, Pennsylvania *2023 - Present*
Ph.D. Student in Computer Science
Advisor: Phillip B. Gibbons
- **Seoul National University**, Seoul, Korea *2017 - 2023*
B.S. in Electrical and Computer Engineering
GPA: 4.28/4.3
The period includes two years of mandatory military service in South Korea.

PROFESSIONAL EXPERIENCES

- **FriendliAI**, Seoul, Korea *2022 - 2023*
Research Intern, Part-time
– *BPipe*: Accelerating the training of LLMs by rebalancing memory utilizations

PUBLICATIONS

- Taebum Kim, **Hyoungjoo Kim**, Gyeong-In Yu, Byung-Gon Chun
BPipe: Memory-Balanced Pipeline Parallelism for Training Large Language Models
International Conference on Machine Learning (ICML), 2023 (Oral Presentation)
- **Hyoungjoo Kim**
Modeling the GPU Instruction Scheduling Performance using Microbenchmarks
Bachelor's Thesis, Seoul National University, 2023; Advised by Jangwoo Kim

TEACHING EXPERIENCES

- Teaching Assistant - Seoul National University, "Operating Systems" *Spring 2023*

SELECTED HONORS AND AWARDS

- Overseas PhD Scholarship, Korea Foundation for Advanced Studies *2023 - 2028*
- The Presidential Science Scholarship, Korea Student Aid Foundation *2017 - 2023*
- International Physics Olympiad, Gold Medal *2016*
- Samsung Humantech Paper Award, Silver Prize *2016*