Hyoungjoo Kim

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https://hyoungjook.github.io

Research Interests

Designing Software Systems for Heterogeneous Computer Systems equipped with Accelerators

Education

- **Carnegie Mellon University**, Pittsburgh, Pennsylvania   *2023 - Expected 2028*
  Ph.D. in Computer Science
  Advisor: Phil 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

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*