

EDUCATION

- **Seoul National University** Seoul, Korea (Republic of)
Integrated M.S./ Ph.D. in Electrical & Computer Engineering; GPA: 3.86/4.3 *March 2023 - Present*
- **Yonsei University** Seoul, Korea (Republic of)
B.S. in Computer Science; GPA: 3.69/4.3 *Mar 2017 - Aug 2022*
Courses: Multi-core and GPU Programming, Computer Architecture, Operating System, Advanced algorithms, Machine Learning

RESEARCH INTEREST

Distributed Deep Learning, Near-Storage Processing, FPGA, Large Language Models (LLMs)

PUBLICATIONS

“PeerAiD: Improving Adversarial Distillation from a Specialized Peer Tutor”

[*CVPR’24*], [accepted]

Jaewon Jung, **Hongsun Jang**, Jaeyong Song, and Jinho Lee

“Smart-Infinity: Fast Large Language Model Training using Near-Storage Processing on a Real System”

[*HPCA’24*, **Best Paper Award-Honorable Mention**] [paper]

Hongsun Jang, Jaeyong Song, Jaewon Jung, Jaeyoung Park, Youngsok Kim, and Jinho Lee

“Pipette: Automatic Fine-Grained Large Language Model Training Configurator for Real-World Clusters”

[*DATE’24*], [accepted]

Jinkyu Yim¹, Jaeyong Song¹, Yerim Choi, Jaebeen Lee, Jaewon Jung, **Hongsun Jang**, and Jinho Lee*

“GraNNDIS: Efficient Unified Distributed Training Framework for Deep GNNs on Large Clusters”

[*arXiv’23*], [arXiv]

Jaeyong Song, **Hongsun Jang**, Jaewon Jung, Youngsok Kim, and Jinho Lee

“Fast Adversarial Training with Dynamic Batch-level Attack Control”

[*DAC’23*], [paper]

Jaewon Jung, Jaeyong Song, **Hongsun Jang**, Hyeyoon Lee, Kanghyun Choi, Noseong Park, and Jinho Lee,

“Pipe-BD: Pipelined Parallel Blockwise Distillation”

[*DATE’23*], [paper], [arXiv], [code]

Hongsun Jang, Jaewon Jung, Jaeyong Song, Joonsang Yu, Youngsok Kim, and Jinho Lee

“Optimus-CC: Efficient Large NLP Model Training with 3D Parallelism Aware Communication Compression”

[*ASPLOS’23*], [paper], [arXiv]

Jaeyong Song¹, Jinkyu Yim¹, Jaewon Jung, **Hongsun Jang**, Hyung-jin Kim, Youngsok Kim, and Jinho Lee

HONORS AND AWARDS

- **The 30th IEEE International Symposium on High-Performance Computer Architecture** : March 2024
Best Paper Award-Honorable Mention
- **The 30th Samsung Humantech Paper Award**: February 2024
Participation Prize, Computer Science and Engineering
- Academic Excellence Award, Seoul National University (2023-1)
- Academic Excellence Award, Yonsei University (2022-2)
- Second Prize at Software Capstone Design, Yonsei University (2022-2, 2022-1)

EXPERIENCE

- **Samsung Electronics, Memory Solutions Team**
Engineering Internship (manager: Gitae Na) *May 2021 - Jun 2021*
- **Eugene Investment & Futures, Information Technology Team**
Field Practice Intern (manager: Manwoo Jang, Eunchang Choi) *Jan 2021 - Feb 2021*

TEACHING EXPERIENCE

- **Digital System Design and Practices (430.315A)**

Teaching Assistant, Fall 2023

- **Programming Methodology (430.211)**

Teaching Assistant, Spring 2023