

Donghyun Lee

CONTACT INFORMATION	Building 944, NPRC Center	Phone: (+82) 010-5787-4336
	Gwanak-ro 1, Gwanak-gu Seoul 08826, Republic of Korea	E-mail: eudh1206@snu.ac.kr Github: https://github.com/99DHL
EDUCATION	Seoul National University <i>M.S./Ph.D. Student in Computer Science and Engineering</i> <ul style="list-style-type: none">Advisor: Professor Jae W. Lee	Mar. 2022 - Present Seoul, Korea
	Yonsei University <i>Bachelor of Science in Electrical and Electronic Engineering</i> <ul style="list-style-type: none">Awarded Highest Honors at Graduation (GPA: 4.14 / 4.30)	Mar. 2018 - Feb. 2022 Seoul, Korea
RESEARCH INTERESTS	System for ML, HW/SW optimization for emerging AI applications, GPU kernel optimization	
PUBLICATIONS	FastPoint: Accelerating 3D Point Cloud Model Inference via Sample Point Distance Prediction Donghyun Lee, Dawoon Jeong, Jae W. Lee, and Hongil Yoon IEEE/CVF International Conference on Computer Vision (ICCV), Honolulu, Hawaii, October 2025	
	FACIL: Flexible DRAM Address Mapping for SoC-PIM Cooperative On-device LLM Inference Seong Hoon Seo, Junghoon Kim, Donghyun Lee, Seonah Yoo, Seokwon Moon, Yeonhong Park, and Jae W. Lee The 31st IEEE International Symposium on High Performance Computer Architecture (HPCA), Las Vegas, NV, March 2025.	
	Frugal 3D Point Cloud Model Training via Progressive Near Point Filtering and Fused Aggregation Donghyun Lee, Yejin Lee, Jae W. Lee, and Hongil Yoon European Conference on Computer Vision (ECCV), Milan, Italy, September 2024.	
	Liquid: Mix-and-Match Multiple Image Formats to Balance DNN Training Pipeline Woohyeon Baek*, Jonghyun Bae*, Donghyun Lee, Hyunwoong Bae, Yeonhong Park, and Jae W. Lee 14th ACM SIGOPS Asia-Pacific Workshop on Systems (APSys), Seoul, South Korea, August 2023.	
	Not All Neighbors Matter: Point Distribution-Aware Pruning for 3D Point Cloud Yejin Lee, Donghyun Lee, JungUk Hong, Jae W. Lee, and Hongil Yoon 37th AAAI Conference on Artificial Intelligence (AAAI), Washington, DC, February 2023.	

TEACHING EXPERIENCE	Computer Architecture (Instructor: Prof. Jae W. Lee)	
	Seoul National University, Sep. - Dec. 2023 Teaching Assistant <ul style="list-style-type: none"> Undergraduate course taught in English 	
COMMUNITY SERVICE	Student Volunteer , International Symposium on Code Generation and Optimization 2022	
INTERNSHIPS	Undergraduate Student Intern	Jul. - Aug. 2021
	Architecture and Code Optimization Lab (ARC Lab)	Seoul, Korea
	<ul style="list-style-type: none"> Implement block-sparse GEMM CUDA kernel for sparse DNN training 	
	Undergraduate Student Intern	Apr. 2020 - Jun. 2021
	Compiler Research Laboratory (Corelab)	Seoul, Korea
	<ul style="list-style-type: none"> Contributed to FlexC graph compiler project 	
HONORS AND AWARDS	The 31st Samsung Humantech Paper Award: Encouragement Prize , Samsung Electronics Co., Ltd.	
	2024 Accelerator Programming Winter School , CUDA competition, 1 st place, SNU THUNDER Research Group & Manycoresoft	
	Highest Honors at Graduation (Top 1% of class) , Yonsei University	
COMPUTER SKILLS	Laanguages: C/C++, CUDA, Verilog, Python	
	Applications/Frameworks: Pytorch, Tensorflow, MLX	