



Chanyoung Jung

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Research Interest

On-device machine learning

My research interest lies in on-device machine learning, especially on the heterogeneous mobile processor computing and 3D vision tasks such as 3D object detection. I am passionate about utilizing resources of resource-constrained devices like mobile phones or edge devices more efficiently and creatively to run complex but practical tasks like 3D vision tasks. I have experience in efficiently utilizing mobile processors for inferencing vision foundation models and 3D object detection models on edge devices.

Education

YONSEI UNIVERSITY, Seoul, Republic of Korea

Mar. 2024 – Present

M.S Candidate in Computer Science

Mobile Embedded Systems Lab., Advised by Prof. Hojung Cha

YONSEI UNIVERSITY, Seoul, Republic of Korea

Mar. 2018 – Feb 2024

B.S in Computer Science, GPA: 4.24/4.50

Rank: 5/67

Experience

Undergraduate Research Assistant

Dec. 2022 – Dec. 2023

Mobile Embedded System Lab, Advised by Prof. Hojung Cha

Publications

ARIA: Optimizing Vision Foundation Model Inference on Heterogeneous Mobile Processors for Augmented Reality

Chanyoung Jung^{*}, Jeho Lee^{*}, Gunjoong Kim, Jiwon Kim, Seonghoon Park, and Hojung Cha (^{*}Co-first authors)

The 23rd ACM Annual International Conference on Mobile Systems, Applications, and Services (MobiSys '25)

June 23-27, 2025. Anaheim, California, USA.

Panopticus: Omnidirectional 3D Object Detection on Resource-constrained Edge Devices

Jeho Lee, Chanyoung Jung, Jiwon Kim, and Hojung Cha

The 30th ACM Annual International Conference on Mobile Computing and Networking (MobiCom '24)

November 18-22, 2024. Washington, D.C., USA.

Projects

Development of On-device DNN Inference System with Real-Time Aware Elastic Resource Allocation

Jul. 2024 – Present

National Research Foundation of Korea (NRF), Republic of Korea

Development of On-device DNN Inference System for Real-time 3D Perception with Mobile 360-degree Camera

May. 2024 – Present

National Research Foundation of Korea (NRF), Republic of Korea

Awards and Honors

■ Academic Prize – Graduated with High Honors, Yonsei University	Feb. 2024
■ Grand Prize – Software Capstone Design, Yonsei University	Jun. 2023
■ Academic Prize – Honors, Yonsei University	Feb. 2023
■ Academic Prize – Honors, Yonsei University	Aug. 2019
■ Academic Prize – High Honors, Yonsei University	Feb. 2019
■ Academic Prize – Highest Honors, Yonsei University	Aug. 2018

Skills

- **Programming Language:** Python, C/C++, Java
- **Languages:** Korean (Native), English (Intermediate), Japanese (Beginner)
- **Frameworks:** QNN, TensorFlow Lite, Android, PyTorch, TensorRT

Teaching Experience

Operating System (CAS3101)	Spring, 2024
Teaching Assistant – Yonsei University, Seoul, Republic of Korea	
5System Programming (CAS3107)	Fall, 2024
Teaching Assistant – Yonsei University, Seoul, Republic of Korea	