

Jeho Lee

Ph.D. Student (forth year, expected graduation: Feb 2027)
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RESEARCH INTERESTS

- On-device AI
- Mobile and Edge Computing Systems

EDUCATION

Yonsei University, Seoul, Korea <i>Ph.D. Student in Computer Science (Advisor: Hojung Cha)</i>	Mar 2020 – Present
Ajou University, Suwon, Korea <i>B.S. in Computer Engineering</i>	Mar 2015 – Feb 2020 GPA: 4.0/4.5

PUBLICATIONS

ARIA: Optimizing Vision Foundation Model Inference on Heterogeneous Mobile Processors for Augmented Reality
Chanyoung Jung*, **Jeho Lee***, Gunjoong Kim, Jiwon Kim, Seonghoon Park, Hojung Cha (*Co-first authors)
ACM International Conference on Mobile Systems, Applications and Services (MobiSys 2025)

Panopticus: Omnidirectional 3D Object Detection on Resource-constrained Edge Devices
Jeho Lee, Chanyoung Jung, Jiwon Kim, Hojung Cha
ACM International Conference on Mobile Computing and Networking (MobiCom 2024)

Vulture: Cross-Device Web Experience with Fine-Grained Graphical User Interface Distribution
Seonghoon Park, **Jeho Lee**, Yonghun Choi, Hojung Cha
IEEE Conference on Computer Communications (INFOCOM 2024)

OmniLive: Super-Resolution Enhanced 360° Video Live Streaming for Mobile Devices
Seonghoon Park, Yeonwoo Cho, Hyungchol Jun, **Jeho Lee**, Hojung Cha
ACM International Conference on Mobile Systems, Applications and Services (MobiSys 2023)

Crow API: Cross-device I/O Sharing in Web Applications
Seonghoon Park, **Jeho Lee**, Hojung Cha
IEEE Conference on Computer Communications (INFOCOM 2023)

MAUI: Enhancing Assistive Web Interaction through GUI Abstraction
Jeho Lee, Seonghoon Park, Yoonha Cha, Hojung Cha
Under Review, IEEE Transactions on Human-Machine Systems (THMS)

EXPERIENCE

University of Southern California, Los Angeles, USA Visiting Student – Viterbi School of Engineering	Summer 2023
CSIRO, Pulenvale, Australia Research Intern – Data61 Robotics and Autonomous Systems Group	Summer 2019

PROJECTS

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

National Research Foundation of Korea (NRF) May 2024 – Present

Task Relation Graph Prediction based on RNN

Samsung Electronics, Republic of Korea Mar 2023 – Feb 2024

SKILLS

Programming: Python, C/C++, Java, JavaScript

Languages: Korean (Native), English (Intermediate)

Frameworks: Android, QNN, TensorRT, PyTorch, MMDetection3D, ROS, Node.js

TEACHING EXPERIENCE

Guest Lecturer, Yonsei University Spring 2024

On-Device Intelligence for 3D Perception: Challenges and Innovations

Teaching Assistant, Yonsei University Spring 2023

Operating Systems (CSI3101)

Teaching Assistant, Yonsei University Fall 2022

Introduction to Computer Science (CSI2106)

MENTORING EXPERIENCE

Chanyoung Jung, Master student at Yonsei Univ., a MobiSys 2025 paper 2024 – Present

Chanyoung Jung, Undergraduate student at Yonsei Univ., a MobiCom 2024 paper,
now Master student at Yonsei Univ. 2022 – 2023

Software Capstone Design, Yonsei Univ. Spring 2021, Fall 2021, Spring 2022, Spring 2023, Fall 2023

ACADEMIC SERVICES

Student Volunteer, MobiSys 2024