

Jeho Lee

Ph.D. Candidate

Department of Computer Science and Engineering, Yonsei University
Seoul, Republic of Korea

🏠 [jeho-lee.github.io](https://github.com/jeho-lee) [in linkedin.com/in/jeho-lee](https://www.linkedin.com/in/jeho-lee) ✉ jeholee@yonsei.ac.kr

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

Conference and Journal Publications (*Co-first authors)

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
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)

Other Publications

Poster: Mixture of Class-aware Experts for Efficient AIoT Inference

Hyemin Jeong, **Jeho Lee**, Seunghyeok Jeon, Hojung Cha
ACM International Conference on Mobile Systems, Applications and Services (MobiSys 2025)

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 On-Device Intelligence for 3D Perception: Challenges and Innovations	Spring 2024
Teaching Assistant, Yonsei University Operating Systems (CSI3101)	Spring 2023
Teaching Assistant, Yonsei University Introduction to Computer Science (CSI2106)	Fall 2022

MENTORING EXPERIENCE

Hyemin Jeong , Master student at Yonsei Univ., a MobiSys 2025 poster	2025 – Present
Chanyoung Jung , Master student at Yonsei Univ., a MobiSys 2025 paper	2024 – Present
Chanyoung Jung , Undergraduate student at Yonsei Univ., a MobiCom 2024 paper	2022 – 2023
Software Capstone Design , Yonsei Univ.	Spring 2021, Fall 2021, Spring 2022, Spring 2023, Fall 2023

ACADEMIC SERVICES

Student Volunteer, MobiSys 2024