

Jeho Lee

Ph.D. Student

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RESEARCH INTERESTS

- **On-device AI Systems**
- **Vision AI System Optimization**
autonomous systems, augmented reality

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

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	Aug 2023
CSIRO, Pulenvale, Australia Research Intern – Data61 Robotics and Autonomous Systems Group	Jul 2019 – Aug 2019

PROJECTS

Development of On-device DNN Inference System for Real-time 3D Perception with Mobile 360-degree Camera (Primary Student Researcher)

Mid-Career Researcher Program Supported by National Research Foundation of Korea (NRF)

Panoptic3D: Multi-view, Multi-modal Dataset for Mobile 3D Perception (Project Leader)

Inference Acceleration of Vision Foundation Model using Heterogeneous Mobile Processors for AR/MR

SKILLS

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

Languages: Korean (Native), English (Intermediate)

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

TEACHING EXPERIENCE

Teaching Assistant, Yonsei University
Operating Systems (CSI3101)

Spring 2023

Teaching Assistant, Yonsei University
Introduction to Computer Science (CSI2106)

Fall 2022