

Jeho Lee

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RESEARCH INTERESTS

- **Mobile Edge AI Systems**

On-device 3D perception, On-device LLM/VLM, Edge-cloud collaborative AI

- **3D Vision Methods and Applications**

Multi-view 3D object detection, 3D reconstruction, VLM-powered 3D perception

EDUCATION

Yonsei University, Seoul, Korea

Mar 2020 – Present

Ph.D. Student in Computer Science (Advisor: Hojung Cha)

Ajou University, Suwon, Korea

Mar 2015 – Feb 2020

B.S. in Computer Engineering

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: Model-driven Development Tool for Usability-enhanced Web Interaction Techniques

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

Aug 2023

Visiting Student – Viterbi School of Engineering

CSIRO, Pulenvale, Australia

Jul 2019 – Aug 2019

Research Intern – Data61 Robotics and Autonomous Systems Group

PROJECTS

Development of On-device DNN Inference System for Real-time

May 2024 – Present

3D Perception with Mobile 360-degree Camera (Primary Student Researcher)

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

Panoptic3D: Omnidirectional 3D Perception Testbed and Dataset (Project Leader)

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

Spring 2023

Operating Systems (CSI3101)

Teaching Assistant, Yonsei University

Fall 2022

Introduction to Computer Science (CSI2106)