

# Jeho Lee

Ph.D. Student

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## RESEARCH INTERESTS

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- **Mobile Edge AI Systems**

resource-efficient on-device AI, edge-cloud collaborative AI

- **Application-oriented AI System Design**

3D perception, vision-language modeling, immersive computing (AR/MR, volumetric content streaming)

## EDUCATION

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**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

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**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

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**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

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**Development of On-device DNN Inference System for Real-time 3D Perception with Mobile 360-degree Camera** (Primary Student Researcher) May 2024 – Present  
Mid-Career Researcher Program Supported by National Research Foundation of Korea (NRF)

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

SKILLS

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**Programming:** Python, C/C++, Java, JavaScript  
**Languages:** Korean (Native), English (Intermediate)  
**Frameworks:** PyTorch, TensorRT, MMDetection3D, ROS, Android, Node.js

TEACHING EXPERIENCE

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**Teaching Assistant, Yonsei University** Spring 2023  
Operating Systems (CSI3101)

**Teaching Assistant, Yonsei University** Fall 2022  
Introduction to Computer Science (CSI2106)