

Kyungjin Lee

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EDUCATION

Seoul National University Ph.D. in Computer Science and Engineering Advisor: Youngki Lee	Seoul, Korea Mar. 2021 - Feb. 2025 (expected)
Seoul National University M.S. in Electrical and Computer Engineering Advisor: Young Min Kim and Sunghyun Choi	Seoul, Korea Mar. 2018 - Feb. 2020
Seoul National University B.S. in Electrical and Computer Engineering	Seoul, Korea Mar. 2013 - Feb. 2018

PUBLICATIONS

Conference & Journal Papers

- [C6] Ego3DPose: Capturing the 3D Cues from Binocular Egocentric Views
Taeho Kang, **Kyungjin Lee**, Jinrui Zhang, Youngki Lee
ACM SIGGRAPH Conference and Exhibition on Computer Graphics and Interactive Techniques in Asia 2023 (SIGGRAPH Asia'23).
- [C5] FarfetchFusion: Towards Fully Mobile Live 3D Telepresence Platform [\[PDF\]](#)
Kyungjin Lee, Juheon Yi, Youngki Lee
ACM International Conference on Mobile Computing and Networking 2023 (MobiCom'23).
- [C4] Bubbleu: Exploring Augmented Reality Game Design with Uncertain AI-based Interaction [\[PDF\]](#)
Minji Kim, **Kyungjin Lee**, Rajesh Balan, Youngki Lee
ACM Conference on Human Factors in Computing Systems 2023 (CHI'23).
- [C3] FlexPatch: Fast and Accurate Object Detection for On-device High-Resolution Live Video Analytics [\[PDF\]](#)
Kichang Yang, Juheon Yi, **Kyungjin Lee**, Youngki Lee
IEEE International Conference on Computer Communications 2022 (INFOCOM'22).
- [C2] GROOT: A Real-time Streaming System for High-Fidelity Volumetric Videos [\[PDF\]](#) [\[Code\]](#)
Kyungjin Lee, Juheon Yi, Youngki Lee, Sunghyun Choi, Young Min Kim
ACM International Conference on Mobile Computing and Networking 2020 (MobiCom'20).
- [C1] Sensor fusion in upper limb area networks: A survey [\[PDF\]](#)
Aaron Duivenvoorden*, **Kyungjin Lee***, Maxime Raison, Sofiane Achiche (* Co-primary)
Global Information Infrastructure and Networking Symposium 2017 (GIIS'17).

AWARDS & HONORS

Google PhD Fellowship Mobile Computing [Link]	2023
BK21 Best Graduate Student Award 2022, Seoul National University Awarded to Top 2 Outstanding Students	2022
Academic Achievement Scholarship, Seoul National University	2013, 2015, 2016

SKILLS

Languages Korean (native), English (bilingual)

Programming C/C++, Python, Swift, Objective-C/C++, CUDA, OpenCL, Metal, Java

Tools Docker, Git

Frameworks Tensorflow, Pytorch

WORK EXPERIENCE

- Human-Centered Computer Systems Lab, Seoul National University** Seoul, Korea
Affiliated Researcher (Advisor: Youngki Lee) Mar. 2020 – Feb. 2021
- Worked on mobile 3D point cloud video streaming systems [C2].
- Multimedia & Wireless Networking Lab, Seoul National University** Seoul, Korea
Graduate Research Student (Advisor: Young Min Kim and Sunghyun Choi) Mar. 2018 – Feb. 2020
- Worked on mobile 3D point cloud video streaming systems [C2].
 - Developed a 5G mmWave link-level simulator with Matlab.
 - System level ideation and design of future 6G network system.
- Polytechnique Montreal** Montreal, Canada
Research Intern (Advisor: Maxime Raison and Sofiane Achiche) Jan. 2017 - May. 2017
- Developed an optimized prototype for upper limb movement detection using an Arduino, Bluetooth Low Energy module, EMG sensors and IMUs.
 - Published a survey paper on sensor fusion techniques for upper limb area networks [C1].
- Seoul National University** Seoul, Korea
Research Intern (Advisor: Yonghwan Lee) Sep. 2016 – Dec. 2016
- Participated in electronic shelf label development using Zigbee (IEEE 802.15.4)

ACADEMIC SERVICES

- ACM UbiComp/IMWUT Reviewer** 2021
- ACM Computing Surveys Reviewer** 2023
- IEEE Transactions on Mobile Computing** 2023

TEACHING EXPERIENCE

- Teaching Assistant, Seoul National University** Fall, 2021
4190.406B Mobile Computing and Applications
Tutorial on Android Programming
- Teaching Assistant, Seoul National University** Fall, 2018
M2608.001200 Introduction to Data Communication Network

MENTORED STUDENTS

- Minji Kim [C4]** 2022-2023
Now PhD Student in Human-centered Computer Systems Lab
- Kichang Yang [C3]** 2021-
Now PhD Student in Human-centered Computer Systems Lab
- Euijun Jung** 2023-
MS Student in Human-centered Computer Systems Lab
- Taeho Kang [C6]** 2023-
MS Student in Human-centered Computer Systems Lab
- Interns**
- Yuna Lee (SNU Undergraduate, Winter 2023-), Sangwon Park (SNU Undergraduate, Winter 2023-), Sieun Kim (SNU Undergraduate, Spring 2023-), Jaeyeon Park (Yonsei Undergraduate, Summer 2022-), Sieun Kim (Georgia Tech Undergraduate, Summer 2022), Tijana Wekker (Lucerne University of Applied Sciences and Arts Undergraduate, Summer 2022), Kyunghwan Kim (GIST Undergraduate, Winter 2021), Dongbin Kim (SNU Undergraduate, Winter 2021), Donggyu Son (SNU Undergraduate, Winter 2021), Jungin Choi (SNU Undergraduate, Summer/Winter 2020), Dain Lee (SNU Undergraduate, Summer 2020)