

MyoungGon Kim

Ph.D. student, Department of Computer Science and Engineering, Korea University, Seoul, Korea
m_gon_kim@korea.ac.kr • +82 10 2882 7489

RESEARCH INTERESTS

Human-Computer Interaction (**HCI**) for Extended Reality(XR)

- Redirected walking
- Mid-air manipulation

Computer Vision for XR

- Sensor Fusion
- Simultaneous Localization and Mapping (SLAM)

EXPERIENCE

Research Engineer in Navigation group, Robot team, Samsung Research Center Mar. 2018 ~ Jun. 2021
Samsung Electronics, Seoul, Korea

- Sensor fusion and SLAM development for autonomous driving robot

EDUCATION

Ph.D. student in Computer Science and Engineering Sep. 2021 ~ Present
Korea University, Seoul, Korea
Supervised by Prof. JungHyun Han

M.Eng. in Computer Science and Engineering Mar. 2016 ~ Feb. 2018
Korea University, Seoul, Korea
Supervised by Prof. JungHyun Han

B.S. in Computer Science and Engineering Mar. 2009 ~ Feb. 2016
B.E. in Software Technology and Enterprise Program
Korea University, Seoul, Korea

PUBLICATIONS

MyoungGon Kim, JiSeok Ryu, Jaemin Son, and JungHyun Han,
“Virtual object sizes for efficient and convenient mid-air manipulation”
Computer Graphics International (**CGI**), 12~16 March, 2022, published in The Visual Computer, 38.9-10
(2022): 3463-3474.

Joohwan Chae, Donghan Kim, Wooseok Jeong, Eunchan Jo, Won-Ki Jeong, JunYoung Choi, Seung-wook Kim, **MyoungGon Kim**, Jae-Won Lee, Hyechan Lee, JungHyun Han,
“Virtual Air Conditioner’s Airflow Simulation and Visualization in AR”, Proceedings of the 28th ACM
Symposium on Virtual Reality Software and Technology (**VRST**). 2022.

MyoungGon Kim and JungHyun Han,
“Effects of Switchable DOF for Mid-Air Manipulation in Immersive Virtual Environments”
International Journal of Human-Computer Interaction (**IJCHI**) 2018: 1-13.

MyoungGon Kim, SungIk Cho, Tanh Quang Tran, Seong-Pil Kim, Ohung Kwon, and JungHyun Han,
“Scaled Jump in Gravity-reduced Virtual Environments”
IEEE VR, 18~23 March, 2017, published in IEEE Transactions on Visualization and Computer Graphics
(**TVCG**), Vol. 23, No. 4, April 2017, pp. 1360-1368.

PATENTS

MyoungGon Kim, Aron Baik, Eunsoll Chang, Mideum Choi, Heejun Choi,
“Robot and method for controlling thereof”

- US patent no.: US20220308591A1, Sep. 29, 2022.
- WIPO patent no.: WO2022203150, Sep. 29, 2022.
- Korean patent no.: KR20220039101A, Mar. 23, 2021.

Eunsoll Chang, **MyoungGon Kim**, Jewoong Ryu, Aron Baik,
“Electronic apparatus and controlling method thereof”

- WIPO patent no.: WO2022114551A1, Jun. 02, 2022.
- Korean patent no.: KR10-2020-0159444, Nov. 25, 2020.

MyoungGon Kim, Jewoong Ryu, Aron Baik, Eunsoll Chang,
“Robot and controlling method thereof”

- US patent no.: not yet assigned (Application no.: 18120192)
- WIPO patent no.: WO2022059937A1, Mar. 24, 2022.
- Korean patent no.: KR20220039101A, Sep. 21, 2020.

RESEARCH PROJECTS

3D pose estimation for evaluating comfortable postures	Jan. 2023 ~ Present
• Funded by Korea Institute for Advancement of Technology (KIAT)	
Implementation of localization for XR controller by the attached RGBD sensor	Mar. 2022 ~ Dec. 2022
• Funded by Institute for Information & communication Technology Planning & evaluation (IITP)	
A comparison between performances of mid-air manipulations according to size of virtual objects in IVE and a solution	Jul. 2021 ~ Feb. 2022
• Funded by Korea Institute for Advancement of Technology (KIAT)	
3D object manipulation in mobile virtual environment	Mar. 2017 ~ Feb. 2018
• Funded by Samsung Electronics	
Redirected walking in vertical direction	Mar. 2016 ~ Feb. 2017
• Funded by National Research Foundation of Korea (NRF)	

HONORS

KU Achievement Award 2022	Feb. 14, 2023
• Granted by Graduate School of Korea University	
Software Technology and Enterprise Program Scholarship	Sep. ~ Dec. 2015
• Granted by Software Specialized Department, Korea University	
Venture Internship Scholarship	Sep. ~ Dec. 2013
• Granted by Office of International Affairs, Korea University	