

# Juheon Yi

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## RESEARCH INTERESTS

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- Mixed Reality (MR)
- Mobile/embedded deep learning systems
- Mobile computing

## EDUCATION

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<b>Seoul National University</b> Ph.D. in Computer Science and Engineering (Advisor: Prof. Youngki Lee)	<b>Seoul, Korea</b> <i>Sep 2020 – Present</i>
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<b>Seoul National University</b> M.S. in Electrical and Computer Engineering (Advisor: Prof. Sunghyun Choi)	<b>Seoul, Korea</b> <i>Sep 2016 – Aug 2018</i>
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<b>Seoul National University</b> B.S. in Electrical and Computer Engineering	<b>Seoul, Korea</b> <i>Mar 2012 – Aug 2016</i>
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## EMPLOYMENT

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<b>Institute of Computer Technology, Seoul National University</b> Researcher, as part of the alternative military service	<b>Seoul, Korea</b> <i>Jun 2020 – Aug. 2020</i>
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<b>Institute of New Media and Communications, Seoul National University</b> Researcher, as part of the alternative military service	<b>Seoul, Korea</b> <i>Sep 2018 – May 2020</i>
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## HONORS AND AWARDS

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- Microsoft Research Asia Ph.D. Fellowship 2020  
- Awarded to top 12 Ph.D. students in the Asia-Pacific region
- Honorable mention, AI Star Fellowship 2020, AI Institute of Seoul National University (AIIS)
- Presidential Science Scholarship, Korea Student Aid Foundation (KOSAF), 2012-2016  
- Awarded to top 100 freshmen in Korea

## PUBLICATIONS

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### Conference

- [ACM MobiCom 2020] **Juheon Yi** and Youngki Lee, “Heimdall: Mobile GPU Coordination Platform for Augmented Reality Applications,” ACM International Conference on Mobile Computing and Networking 2020.  
(Acceptance rate: 17.8% = 39/218, winter round)
- [ACM MobiCom 2020] Kyungjin Lee, **Juheon Yi**, Youngki Lee, Sunghyun Choi, and Young Min Kim, “GROOT: A Real-time Streaming System for High-Fidelity Volumetric Videos,” ACM International Conference on Mobile Computing and Networking 2020.  
(Acceptance rate: 17.8% = 39/218, winter round)
- [ACM MobiCom 2020] **Juheon Yi**, Sunghyun Choi, and Youngki Lee, “EagleEye: Wearable Camera-based Person Identification in Crowded Urban Spaces,” ACM International Conference on Mobile Computing and Networking 2020.  
(Acceptance rate: 17.2% = 24/139, summer round)

- **[IEEE SECON 2018] Juheon Yi**, Weiping Sun, Jonghoe Koo, Seongho Byeon, Jaehyuk Choi, and Sunghyun Choi, "BlueScan: Boosting Wi-Fi Scanning Efficiency Using Bluetooth Radio," IEEE International Conference on Sensing, Communication and Networking 2018.  
(Acceptance rate: 23.2% = 49/211)
- **[ACM Multimedia 2017] Jonghoe Koo, Juheon Yi**, Joongheon Kim, Mohammad A. Hoque, and Sunghyun Choi, "REQUEST: Seamless Dynamic Adaptive Streaming over HTTP for Multi-Homed Smartphone under Resource Constraints," ACM Multimedia 2017.  
(Acceptance rate: 28.3% = 191/675)

#### **Journal**

- **[IEEE TMC 2020] Juheon Yi**, Seongwon Kim, Joongheon Kim, and Sunghyun Choi, "Supremo: Cloud-Assisted Low-Latency Super-Resolution in Mobile Devices," accepted to IEEE Transactions on Mobile Computing, September 2020.
- **[IEEE TMC 2019] Jonghoe Koo, Juheon Yi**, Joongheon Kim, Mohammad A. Hoque, and Sunghyun Choi, "Seamless Dynamic Adaptive Streaming in LTE/Wi-Fi Integrated Network under Smartphone Resource Constraints," IEEE Transactions on Mobile Computing, July 2019.

#### **PROFESSIONAL SERVICES**

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##### **Reviewer**

- Journal: IEEE Transactions on Mobile Computing (TMC), ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)
- Conference: IEEE DySPAN 2018, IEEE WCNC 2019, IEEE WCNC 2020

#### **LANGUAGE SKILLS**

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##### **English**

- TOEFL iBT 113/120 (expired)

#### **TEACHING EXPERIENCE**

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- SNU 4190.406B Mobile Systems and Applications, Fall 2020 (head TA)
- SNU M2608.001200 Introduction to Data Communication Network, Fall 2017 (head TA)
- SNU 033.017 Basic Calculus 2, Fall 2014 (English lecture for foreign students)
- SNU 033.016 Basic Calculus 1, Spring 2014 (English lecture for foreign students)