Juheon Yi

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RESEARCH INTERESTS

- **Mobile/embedded deep learning systems**
- **Augmented Reality (AR)**
- **Wireless networking**

EDUCATION

Seoul National University	**Seoul, Korea**
Ph.D. in Computer Science and Engineering (Advisor: Prof. Youngki Lee)	*Sep 2020 –Present*

Seoul National University   **Seoul, Korea**
M.S. in Electrical and Computer Engineering (Advisor: Prof. Sunghyun Choi)   *Sep 2016 –Aug 2018*
- **Thesis: Edge-Assisted Real-Time Image Super-Resolution in Mobile Devices**

Seoul National University   **Seoul, Korea**
B.S. in Electrical and Computer Engineering   *Mar 2012 – Aug 2016*

EMPLOYMENT

Institute of Computer Technology, Seoul National University   **Seoul, Korea**
Researcher, as part of the alternative military service in Korea   *Jun 2020 – Aug. 2020*

Institute of New Media and Communications, Seoul National University   **Seoul, Korea**
Researcher, as part of the alternative military service in Korea   *Sep 2018 – May 2020*

HONORS AND AWARDS

- Honorable mention, AI Institute of Seoul National University (AIIS) AI Star Fellowship 2020
  - Awarded to Top 10 finalists
- Presidential Science Scholarship, Korea Student Aid Foundation (KOSAF)
  - Full scholarship ($10,000 / year) for under graduate studies
  - Granted to only 100 out of the entire nation's natural science and engineering freshmen in 2012

PUBLICATIONS

Conference
- **[ACM MobiCom 2020]** <u>**Juheon Yi**</u> 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, <u>**Juheon Yi**</u>, 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]** <u>**Juheon Yi**</u>, 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]** <u>**Juheon Yi**</u>, 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, <u>**Juheon Yi**</u>, 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 2019]** Jonghoe Koo, <u>**Juheon Yi**</u>, 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

Reviewer
- Journal: IEEE Transactions on Mobile Computing
- Conference: IEEE DySPAN 2018, IEEE WCNC 2019, IEEE WCNC 2020

LANGUAGE SKILLS

English
- TOEFL iBT 113/120 (expired)

TEACHING EXPERIENCE
- SNU 4190.406B Mobile Systems and Applications, Fall 2020
- 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)