

HOON KIM

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<https://gnsrla12.github.io/>

I am an M.S. student in the EE Dept. at Korea Advanced Institute of Science and Technology (KAIST). I am advised by Prof. Changho Suh and a member of Information System Laboratory. My major interest currently lay in utilizing computer simulation and deep learning to tackle real-world problems.

EDUCATION

M.S. Electrical Engineering

Mar. 2017 - present

Korea Advanced Institute of Science and Technology, Daejeon, Korea

Advisor: Professor Changho Suh

B.S. Double Major: Electrical Engineering and Computer Science

Mar. 2012 - Feb. 2017

Korea Advanced Institute of Science and Technology, Daejeon, Korea

Exchange Student at NYU School of Engineering

Jan. 2016 - May. 2016

New York University, NY, USA

PUBLICATIONS (*=EQUAL CONTRIBUTION)

1. **Crash to not crash: Learn to identify dangerous vehicles using a simulator**

AAAI, Honolulu, Hawaii, USA, January, 2018 (acceptance rate: 16.2%)

Hoon Kim*, Kangwook Lee*, Gyeongjo Hwang and Changho Suh

2. **Simulated+Unsupervised Learning With Adaptive Data Generation and Bidirectional Mappings**

ICLR, BC, Canada, April, 2018

Kangwook Lee*, **Hoon Kim***, and Changho Suh

3. **SGD on Random Mixtures: Private Machine Learning under Data Breach Threats**

ICLR Workshop, BC, Canada, April, 2018

Kangwook Lee, Kyoungmin Lee*, **Hoon Kim***, Changho Suh, and Kannan Ramchandran

4. **SGD on Random Mixtures: Private Machine Learning under Data Breach Threats**

SysML, Stanford, CA, USA, February, 2018

Kangwook Lee, Kyoungmin Lee*, **Hoon Kim***, Changho Suh, and Kannan Ramchandran

5. **Crash to not crash: Playing video games to predict vehicle collisions**

ICML Workshop on Machine Learning for Autonomous Vehicles, Sydney, Australia, August, 2017

Kangwook Lee*, **Hoon Kim***, and Changho Suh

INVITED TALKS

1. **Domain Adaptation from Simulation to Real World**

Aug. 2018

Invited talk @ Samsung Advanced Institute of Technology (SAIT)

2. **Simulated+Unsupervised Learning with Adaptive Data Generation and Birectional Mappings** *June 2018*

Invited talk @ Institute of Electronics Engineers of Korea (IEEK), Summer Conference

WORK EXPERIENCE

1. **Software Engineer Intern: Naver D2 Startup Factory** *July 2015 - Aug. 2015*
Electric Mobility Embedded System Development
2. **Software Engineer Intern: Smilegate** *July 2015*
Real-time Multiplayer Game Server Development

AWARDS

1. Won second place (\$10,000) in KAIST E5 Start-up Challenge, 2015

TECHNICAL STRENGTHS

Computer Languages	Python, C, C#, Matlab, Android Development
Deep Learning	Tensorflow, Pytorch