

# 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

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### **M.S. Electrical Engineering**

*March 2017 - present*

Korea Advanced Institute of Science and Technology, Daejeon, Korea

Advisor: Professor Changho Suh

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

*March 2012 - February 2017*

Korea Advanced Institute of Science and Technology, Daejeon, Korea

### **Exchange Student at NYU School of Engineering**

*January 2016 - May 2016*

New York University, NY, USA

## PUBLICATIONS (\*=EQUAL CONTRIBUTION)

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1. **Crash to Not Crash: Learn to Identify Dangerous Vehicles using a Simulator**  
AAAI, Honolulu, Hawaii, USA, January, 2018 (acceptance rate: 16.2%, oral presentation)  
**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

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### 1. Learning from Computer Simulations to Tackle Real World Problems

Invited talk @ Naver

*November 2018*

Invited talk @ Samsung Advanced Institute of Technology (SAIT)

*August 2018*

### 2. Simulated+Unsupervised Learning with Adaptive Data Generation and Birectional Mappings

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

*June 2018*

## WORK EXPERIENCE

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### 1. Software Engineer Intern: Naver D2 Startup Factory

*July 2015 - August 2015*

Electric Mobility Embedded System Development

### 2. Software Engineer Intern: Smilegate

*July 2015*

Real-time Multiplayer Game Server Development

## AWARDS

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

## TECHNICAL STRENGTHS

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<b>Computer Languages</b>	Python, C, C#, Matlab, Android Development
<b>Deep Learning</b>	Tensorflow, Pytorch