

# MYEONGKYU LEE

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## EDUCATION

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### **Kookmin University**

*2021 - Present*

- Master Candidate of Automotive and IT convergence
- Advisor: Ji Hyun Yang

GPA: 4.00/4.00

### **Kookmin University**

*2015 - 2021*

- Bachelor of Automotive Engineering
- Cumulative rank: **1st** out of 166

GPA: 3.98/4.00

## RESEARCH INTEREST

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- **Human-Vehicle Interaction**
- **Vehicle Ergonomics**
- **Vehicle/Driver Safety**
- **Autonomous Driving**

## RESEARCH EXPERIENCE (SELECTED)

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### **Artificial Intelligence adaptation on the steering wheel (on going)**

Seoul, S.Korea

*Sponsored by Hyundai Motors Group*

*Sep 2021-August 2022*

Main role: Researcher (Student Representative)

### **Development of take-over verification process (on going)**

Seoul, S.Korea

*Sponsored by Hyundai Motors Group*

*May 2021-May 2022*

- Main role: Researcher

### **Study of vehicle/physiological data characteristics according to state**

Seoul, S.Korea

*Sponsored by Hyundai Motors Group*

*Mar 2021-Nov 2021*

- Main role: Researcher

### **Study of vehicle/physiological data characteristics according to emotion**

Seoul, S.Korea

*Sponsored by Hyundai Motors Group*

*Mar 2020-Nov 2020*

- Main role: Researcher

### **Study of drivers' behavior characteristics under danger situation**

Seoul, S.Korea

*Sponsored by National Forensic Service*

*Mar 2020-Dec 2020*

- Main role: Researcher

### **Undetectable Communications for Drone Applications**

CA, USA

*Researcher at UC Irvine, USA*

*Dec 2019-Feb 2020*

Group led by Prof. Marco Leverato and by Anas Alsoliman (Ph.D student)

- Main role: Research assistance

## PUBLICATION AND PRESENTATION

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### 1. Publication

- **M. Lee**, S. Lee, S. Hwang, S. Lim and J. Yang\*, "Effect of emotion on galvanic skin response and vehicle control data during simulated driving", under review, Transportation Research Part F: Traffic Psychology and Behaviour. SSCI.
- **M. Lee**, S. Kim, J. Kim and J. Yang\*, "Simulator Study on the Response Time and Defensive Behavior of Drivers in a Cut-in Situation", accepted, International Journal of Automotive Technology. SCIE.

### 2. Presentation

- **M. Lee**, H. Shim, S. Kim, J. Choi, J. Yang\*, "Study of driver's response time in cut-in situation with driving simulator", Proceedings of 2021 Spring Conference of ESK, Seoul, 17-18, June, 2021.

## SKILLS

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### Programming skills:

MATLAB/SIMULINK, Python, HTML, CSS, Javascript, C, C++, LaTeX, SCANeR Studio Carmaker, Prescan

### Languages:

Korean(native), English(fluent)

## ACADEMIC ACHIEVEMENTS

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1. Graduated **1st** in my college from Automotive Convergence college in Kookmin University, 2021.

## MISCELLANEOUS

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I am preapring a Ph.D course in US.