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2019

NOON TALK @ DIATI

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Please bring  
your own mug.  
Coffee and tea  
will be  
provided  
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**Mercoledì 3 Aprile 2019  
ore 13.00**

**Politecnico di Torino  
Sala Riunioni, primo piano,  
DIATI ingresso 3**

**Jaeyoung Lee**

Assistant Professor at the University of Central Florida

## **Pedestrian Safety Research: Introduction to Macroscopic Approach and Safety-in-Numbers**

Prof. **Marco Bassani** moderates the discussion

### **ABSTRACT**

Walking has been encouraged not only because they are economically and environmentally sustainable; but also they can improve public health. At the same time, traffic injuries and fatalities involving pedestrians have been a serious public health problem. This presentation has the following main topics: (1) a macroscopic approach to explore pedestrian safety and (2) safety-in-numbers effects for pedestrians. The macroscopic safety analysis focuses not only on roadway design and traffic characteristics; but also on various factors including but not limited to socio-demographic and climate features. The safety-in-numbers effect is a phenomenon that the probability of crash involvements per pedestrian would be decreased if the number of pedestrian increases. Although a number of previous studies have confirmed the safety-in-numbers effect for pedestrians the effect might not exist in areas with extremely low walking activities. These two interesting topics related to pedestrian safety will be discussed in the presentation.



**POLITECNICO  
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Dipartimento di Ingegneria  
dell'Ambiente, del Territorio  
e delle Infrastrutture



### **BIOGRAPHY**

Dr. Jaeyoung Lee is an Assistant Professor and the Safety Director at the University of Central Florida. He is also a full Professor of Central South University, China. His main expertise and interests include traffic safety analysis and transportation planning. He received four Best Paper/Young Researcher Award from the TRB and the World Conference on Transport Research in 2016-2018. Dr. Lee has published more than 70 peer-reviewed papers in top journals, and presented his studies more than 120 times in national and international conferences. He is serving as the Co-Chair of the TRB Transportation Safety Planning. Also, he is a member of Transportation Safety Management and Alcohol, Other Drug and Transportation committees of the TRB. He is severing as an Associate Editor of the Transportation Safety & Environment, Journal of Advanced Transportation, Transportation Research Record, and an editorial board member of the Advances in Transportation Studies.

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Save the date for our next speaker-event, on May 8 2019, at 13:00.