

Ji Hyun Yang, Ph.D.

Assistant Professor

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RESEARCH INTERESTS

- **Human-Vehicle Interaction**, operator cognition modeling in manned/unmanned systems, visual perception and human uncertainty modeling in transportation/military systems
- **Active Safety** for ground and aerial transportation systems, fatigue detection and analysis

EDUCATION

Massachusetts Institute of Technology, Cambridge, MA

Ph.D., Department of Aeronautics and Astronautics

September 2007

Major area: **Humans and Automation**, Chair: Professor Eric Feron

Thesis: *Analysis and Detection of Driver Fatigue Caused by Sleep Deprivation*

S.M., Department of Aeronautics and Astronautics

September 2003

Thesis: *Development of a Performance-based Approach for Collision Avoidance and Mitigation*

Seoul National University, Seoul, Korea

B.S., Department of Mechanical and Aerospace Engineering, *summa cum laude*

February 2001

PROFESSIONAL EXPERIENCE

Kookmin University, Seoul, Korea

Assistant Professor

March 2013 – present

- Department of Automotive Engineering

Naval Postgraduate School, Monterey, CA

Research Associate Professor

August 2011 – February 2013

- MOVES (Modeling Virtual Environment and Simulation) Institute

National Research Council Fellow & Research Scientist Principal

April 2008 – August 2011

- MOVES Institute & Human Systems Integration Laboratory, Operations Research Department

Massachusetts Institute of Technology, Cambridge, MA

Graduate Research Assistant

September 2001 – August 2007

- Department of Aeronautics and Astronautics & Laboratory of Information and Decision Systems

- Ford-MIT alliance program

- Internships at Ford Motor Company on July 2005 – August 2006, July 2004, July 2003, January 2002