

## **Dr. Jangwoon Park**

Texas A&M University-Corpus Christi  
Science & Engineering, Engineering

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### **Education**

PhD, Pohang University of Science and Technology, 2013.

BS, Ajou University, 2007.

### **Licensures and Certifications**

Certificate of Attendance, TAMUCC. (2016 - Present).

### **Professional Employment**

Assistant Professor, Texas A&M University -- Corpus Christi. (September 2016 - Present).

Post-doc research fellow, University of Michigan Transportation Research Institute. (February 2014 - June 2016).

Post-doctoral research associate, Pohang University of Science and Technology. (February 2013 - January 2014).

### **Professional Memberships**

Human Factors and Ergonomics Society  
Society of Automobile Engineers International

## **TEACHING**

### **Teaching Experience**

ENGR 1211, FOUNDATIONS OF ENGINEERING I

### **Teaching Awards and Honors**

Award for Professional Development and Review (APRDeL), Texas A&M University - Corpus Christi. (2017).

## **SCHOLARLY AND CREATIVE ACTIVITIES**

### **Publications**

Refereed

Conference Proceedings

Park, J., Ebert, S., Reed, M., Hallman, J. (2016). *Effects of occupant and vehicle factors on three-point belt fit in rear seats*. International Research Council on the Biomechanics of Injury.

Park, J., Kim, H., Jones, M., Sheila, E., Park, B., Reed, M. (2016). *Development of an automatic seat-dimension extraction system*. SAE International.

Park, J., Lee, H., Choi, Y., Park, K., Kim, M., You, H. (2014). *Development of an ergonomic bus seat profile design protocol* (1st ed., vol. 58, pp. 1825-1828). Human Factors and Ergonomics Society.

Park, J., Lee, B., Choi, Y., Sah, S., Jung, K., You, H. (2013). *Development of statistical geometric models for a driver's hip and eye locations* (1st ed., vol. 57, pp. 1978-1982). Human Factors and Ergonomics Society.

Park, J., Choi, Y., Lee, B., Sah, S., Jung, K., You, H. (2013). *Sitting strategy analysis based on driving postures and seating pressure distributions* (1st ed., vol. 57, pp. 1983-1986). Human Factors and Ergonomics Society.

Lee, W., Park, J., Jeong, J., Jeon, E., Kim, H., Park, S., You, H. (2012). *Analysis of the facial anthropometric data of Korean pilots for oxygen mask design* (1st ed., vol. 56, pp. 1927-1931). Human Factors and Ergonomics Society.

#### Journal Articles

Park, J., Ebert, S., Reed, M., Hallman, J. (2016). Statistical models for predicting automobile driving postures for men and women including effects of age. *Human Factors*, 58(2), 261-278.

Park, J., Ebert, S., Reed, M., Hallman, J. (2015). A statistical model including age to predict passenger postures in the rear seats of automobiles. *Ergonomics*, 59(6), 796-805.

Lee, J., Yang, C., Park, G., Park, J., You, H., Bae, S. (2014). Analysis of wearing apparel conditions and clothing preferences for development of a suit for disabled males in wheelchairs. *Journal of the Korean Society of Clothing and Textiles*, 38(5), 733-742.

Park, K., Park, J., Yang, C., Jeon, E., You, H. (2014). Development of a sizing system of mass-customized clothing for wheelchair users: men's suit sizes. *Fashion & Textile Research Journal*, 16(4), 625-634.

Park, J., Lee, H., Choi, Y., Park, K., Kim, M., You, H. (2014). Development of an evaluation protocol for a bus seat. *Journal of the Korean Institute of Industrial Engineers*, 4(1), 74-78.

Hong, W., Lee, W., Jung, K., Lee, B., Park, J., Park, S., Park, Y., Son, J., Park, S., You, H. (2013). Development of an ECG-based assessment method for a driver's cognitive workload. *Journal of the Korean Institute of Industrial Engineers*, 40(3), 325-332.

Lee, W., Jung, K., Jeong, J., Park, J., Cho, J., Kim, H., Park, S., You, H. (2013). An anthropometric analysis of Korean male helicopter pilots for helicopter cockpit design. *Ergonomics*, 56(5), 879-887.

Yang, Y., Kim, C., Park, J., You, H., Cho, G. (2009). Application of fabric frictional speeds to fabric sound analysis using water repellent fabrics. *Fibers & Polymers*.

#### Non-Refereed

## Journal Articles

- Park, J., Ebert, S., Reed, M., Hallman, J. (2015). Development of an optimization method for locating the pelvis in an automobile seat. *Procedia Manufacturing*, 3, 3738-3744.
- Kwon, Y., Sung, M., Cho, H., Chang, E., Park, K., Park, J., Jeon, E., Kim, E., Lee, S., You, H., Ha, T., Shin, W. (2014). Effects of an Indigo Blanket on Insomnia Symptoms: Double Blind, Placebo-Controlled, Randomized Pilot Study. *J Korean Sleep Res Soc*, 11(1), 33-37.
- Park, J., Choi, Y., Lee, B., Jung, K., Sah, S., You, H. (2014). A classification of sitting strategies based on driving posture analysis. *Journal of the Ergonomics Society of Korea*, 33(2), 87-96.
- Park, J., Hong, W., Jeong, J., Lee, M., Chae, Y., Paik, M., Cho, G., You, H. (2013). Development of a textile sensibility evaluation system. *Fibers & Polymers*, 14(8), 1400-1406.
- Lee, W., Jeong, J., Park, J., Jeon, E., Kim, H., Park, S., You, H. (2013). Analysis of the facial measurements of Korean Air Force pilots for oxygen mask design. *Ergonomics*, 56(9), 1451-1464.
- Choi, Y., Park, J., Lee, B., Jung, K., Sah, S., You, H. (2013). A classification of sitting strategies based on seating pressure distribution. *Journal of the Korean Institute of Industrial Engineers*, 39(2), 105-108.
- Park, J., Chang, Y., Hong, W., Lee, M., Han, A., Chae, Y., Cho, G., You, H. (2012). Effects of color, scouring method, and age on the visual sensibility of naturally colored organic cotton (NaCOC). *Human Factors and Ergonomics in Manufacturing & Service Industries*, 24(3), 318-327.
- Park, J., Chang, Y., Hong, W., Lee, M., Han, A., Chae, Y., Cho, G., You, H. (2011). An analysis of visual sensibility evaluation of naturally colored organic cotton: identification of reliability and proper scouring method. *Journal of the Ergonomics Society of Korea*, 30(2), 311-317.
- Park, J., Kim, S., Hong, W., You, H. (2011). An analysis of natural motion for product design: refrigerator half guard installation part design. *The Korean Institute of Industrial Engineers*, 37(10), 10-18.
- Park, J., Jung, K., Chang, J., Kwon, J., You, H. (2010). Evaluation of predicted driving postures in RAMSIS digital human model simulation. *IE Interfaces*, 23(2), 100-107.
- Park, J., Kim, S., Yang, Y., Han, A., Kim, C., Cho, G., You, H. (2010). Development of an affective quality evaluation and estimation system for fabric frictional sound. *Journal of the Ergonomics Society of Korea*, 29(2), 217-224.
- Lee, W., Park, J., Kim, S., Yoon, S., Yang, X., Lee, Y., Son, J., Kim, M., You, H. (2010). Development of an analysis system for biosignal and driving performance measurements. *Journal of the Ergonomics Society of Korea*, 29(1), 47-53.
- Jeon, E., Park, J., Jeong, J., Park, S., Park, J., You, H., Kim, H. (2009). Pattern analysis and determination of body dimension for flight suit design. *Fashion & Textile Research Journal*, 11(2), 286-292.

Jung, K., Park, J., Lee, W., Kang, B., Uem, J., Park, S., You, H. (2001). Development of quantitative ergonomic assessment method for helicopter cockpit design in a digital environment. *Journal of the Ergonomics Society of Korea*, 29(2), 203-210.

## **Presentations**

Hariri, M. (Author), Ajisafe, T. D. (Author), Park, J. (Author), "Optimization-Based Human Motion Prediction of Walking with Acceleration and Deceleration," 8th International Conference on Applied Human Factors and Ergonomics, Applied Human Factors and Ergonomics (AHFE), Los Angeles, California. (July 2017).

Hariri, M. (Author), Ajisafe, T. D. (Author), Park, J. (Author), "Optimization-Based Prediction of the Motion of a Human Performing a Horizontal Drop Jump," 8th International Conference on Applied Human Factors and Ergonomics, Applied Human Factors and Ergonomics (AHFE), Los Angeles, California. (July 2017).

## **Contracts, Grants and Sponsored Research**

### **Grant**

Park, Jangwoon (Principal), "Development of a customized swimming goggle using 3D facial scan data," Sponsored by Texas A&M University-Corpus Christi, Texas A&M University-Corpus Christi, \$5,000.00. (September 1, 2017 - August 31, 2018).

## **Scholarly and Creative Awards and Honors**

Best presentation award, Society of Fashion & Textile Industry. (2013).

Best presentation award, Society of Fashion & Textile Industry. (2013).

Best prize, Korean Institute of Industrial Engineers. (2013).

Best student paper award, Korean Institute of Industrial Engineers. (2009).

Honorable mention, Korean Intellectual Property Office. (2008).

## **SERVICE**

### **Department**

Committee Member, ABET Steering Committee. (March 2017 - Present).

Committee Member, EE Faculty Search Committee. (January 2017 - August 2017).

Committee Member, EE Faculty Search Committee. (November 2016 - December 2016).

Attendee, Meeting, First Island Day. (October 2016).

### **College**

Committee Member, FIRST Tech Challenge. (January 2017).