

Byung Cheol Lee

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

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Education

PhD, Purdue University, 2013.

MS, Yonsei University, 1994.

BS, Yonsei University, 1992.

Professional Employment

Post-Doc Researcher, Purdue University. (May 2014 - May 2015).

- Participate in clinical business intelligence projects with Department of Veterans Affairs.
- Co-research on multimodal approach to image perception for visually impaired people.
- Develop meta-analysis approach to utilize as a supplemental teaching tool for an undergraduate human factors course.
- Mentor undergraduate and graduate students and assist their research.

Lecturer, Purdue University. (January 2014 - May 2014).

"Engineering Economics" (3 credit hours, 150 students)

- Covered the basic concepts and techniques useful for economic decision-making.
- Provided a framework to systematically analyze the economic aspects of engineering solutions.

Teaching Assistant, Purdue University. (January 2008 - December 2013).

- "Work Analysis and Design II" - Senior-level Human Factors course, Fall 2008, Spring 2009, Spring 2010, Fall 2010, Spring 2011, Spring 2012, Fall 2012.
- "Work Analysis and Design I" - Junior-level Human Factors course, Fall 2012, Spring 2013.
- "Safety Engineering" - Graduate-level Human Factors course, Spring 2008.
- "Process Control" - Senior-level Manufacturing course, Spring 2013.

Research Assistant, Purdue University. (January 2007 - December 2013).

- Performed cognitive task analysis to identify human errors and the mechanism of non-compliance behaviors in healthcare information systems environments.
- Developed the classification of human cognitive behaviors and applied them in measuring the effect of work interference on human performance.
- Conducted a qualitative study on care practitioner's perceptions and satisfaction with information systems.
- Modeled the adoption / acceptance mechanism of healthcare information technology system.

Graduate Instructor, Purdue University. (August 2011 - December 2011).

"Work Analysis and Design II" (3 credit hours, 56 students)

- Developed teaching material to reflect a wide range of cognitive engineering topics to senior-level undergraduate students.

Quality Assurance Engineer, ExxonMobil Korea. (January 2001 - September 2006).

- Supervised a third party plant and laboratory for improving product quality control, manufacturing scheduling and overall laboratory activities.
- Implemented and managed a company-wide quality assurance system.
- Developed and launched 11 lubricant products in cooperation with marketing and sales departments.

Consultant, netPSM. (January 2000 - January 2001).

- Participated in purchase and supply management projects of chemical company, which includes purchasing process analysis, supplier analysis and adaptation of on-line bidding system.
- Developed strategic purchasing project proposals.

Senior Researcher, Hyosung Corporation. (February 1996 - December 1999).

- Developed cost-saving manufacturing process of polyester film through usage of alternative chemical materials and rationalization of reaction process.
- Participated in a business-restructuring project to improve an organizational structure and business process.
- Participated in the certification process of ISO 9000 as an internal inspector.

Researcher, Tongyang Polyester. (October 1994 - January 1996).

- Developed formulations of high speed coating materials and analyzed advanced coating technology.
- Assessed supply/demand balance, production cost and estimated profitability of newly launched magnetic coating products.
- Performed laboratory and pilot test for commercial production of polyester resin film.

Teaching Assistant, Yonsei University. (September 1993 - June 1994).

- "Process Control" - Senior-level course, Fall 1993, Spring 1994.

Professional Memberships

Institute of Industrial Engineers
 Human Factors and Ergonomics Society in Cognitive Engineering and Decision Making Technical Group
 Human Factors and Ergonomics Society, Purdue University

TEACHING

Teaching Experience

ENGR 2316, THERMODYNAMICS
 ENGR 4390, SPECIAL TOPICS IN ENGINEERING: Project Management
 ENTC 4320, HEAT TRANSFER
 ENTC 4350, CAPSTONE PROJECTS
 ENTC 4415, PROJECT JUSTIFICATION AND MGMT
 MEEN 3345, HEAT TRANSFER
 MEEN 4240, PROJECT MANAGEMENT
 MEEN 4340, PROJECT MANAGEMENT
 MEEN 4370, CAPSTONE PROJECTS

SCHOLARLY AND CREATIVE ACTIVITIES

Presentations

Lee, B. C., "Validation of Interruption Management Stage Model: Can we develop the human cognitive behavior model in interruptive working environment?," 8th International Conference on Applied Human Factors and Ergonomics (AHFE 2017), Los Angeles, CA. (July 20, 2017).

Lee, B. C., "Indoor Phenotyping," Texas A&M AgriLife Research and Extension center, Texas A&M AgriLife Research and Extension Weslaco center. (March 9, 2016).

Lee, B. C. (Presenter), "Human Factors and its application in agriculture," Texas A&M University - Corpus Christi ENCS - AgriLife Workshop. (February 26, 2016).

Contracts, Grants and Sponsored Research

Grant

Lee, Byung Cheol, "Project Grad ODELTA Certificate," Sponsored by Distance Education and Learning Technologies, Texas A&M University-Corpus Christi, \$2,500.00. (May 16, 2016 - December 2016).

Scholarly and Creative Awards and Honors

Academic Award, Yonsei University. (1988).

SERVICE

Department

Committee Member, Faculty Search Committee. (October 2015 - May 2016).

College

Committee Member, Steering Committee. (September 2016 - Present).

University

Committee Member, Institutional Review Board Committee. (December 2016 - July 2021).

Professional

Session Chair, 8th International Conference on Applied Human Factors and Ergonomics (AHFE 2017). (October 2016 - July 2017).

Member, Program Board of 7th International Conference on Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management. (October 2015 - July 2016).

Public

Judge, First Tech Challenge Robotics. (January 2017).

Middle School UAV Summer Camp. (August 2016).

Coastal Bend Engineering Competition. (April 2016).

Score Keeper, First Tech Challenge Robotics Competition. (January 2016).

Service Awards and Honors

Excellent Employee, ExxonMobil Korea. (2001).
Outstanding Student Leader Award, Yonsei University. (1994).