

# MINYOUNG SUH, PH.D

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Department of Apparel, Textiles and Interior Design  
College of Human Ecology, Kansas State University

323 Justin Hall  
Kansas State University  
Manhattan KS 66506

Phone : 785-532-1322  
Fax : 785-532-3796  
Email : [msuh@ksu.edu](mailto:msuh@ksu.edu)

## EDUCATION

PH.D. in TEXTILE TECHNOLOGY MANAGEMENT (2008-2011)

College of Textiles, North Carolina State University, Raleigh, NC

Advisor: Dr. Kate Carroll and Dr. William Oxenham

Thesis: Development of Wireless Transmission between Inductively Coupled Layers in Smart Clothing

M.S. in TEXTILE AND APPAREL, TECHNOLOGY AND MANAGEMENT (2006–2008)

College of Textiles, North Carolina State University, Raleigh, NC

Advisor: Dr. Abdel-Fattah Seyam and Dr. William Oxenham

Thesis: Static Generation and Dissipation in Textiles

B.S. in CLOTHING AND TEXTILES (1999–2003)

B.S. in HUMAN ENVIRONMENT AND DESIGN (1999–2003)

College of Human Ecology, Yonsei University, Seoul, Korea

## PROFESSIONAL EXPERIENCE

KANSAS STATE UNIVERSITY, Manhattan, Kansas

*Assistant Professor* (2012–present)

HONG KONG POLYTECHNIC UNIVERSITY, Hung Hom, Hong Kong

*Post-doctoral Fellow* (2011–2012)

NASAN Co., Seoul, Korea

*Textile Designer* (2003–2004)

**PROJECT EXPERIENCE**

Development of Breast Mechanical Model for Functional Brassiere Design

*Hong Kong Polytechnic University (2011–2012)*

P.I.: Dr. Wing Man Yu

Development of Wireless Transmission between Inductively Coupled Layers in Smart Clothing

*North Carolina State University (2009–2011)*

P.I.: Dr. Kate Carroll and Dr. William Oxenham

Assessment of Factors Affecting Student Creative Output in Development of New Textile Products

*Scholarship of Teaching and Learning (2010–2011)*

P.I.: Dr. Kate Carroll and Prof. Nancy Powell

Embodied Interaction Paradigm for Users with Severe Visual Impairments

*National Science Foundation (2008–2009)*

P.I.: Dr. Tonya Smith-Jackson, Dr. Kate Carroll, and Dr. Francis Quek

Static Generation and Dissipation in Textiles

*National Textile Center (2006–2008)*

P.I.: Dr. Abdel-Fattah Seyam, Dr. William Oxenham, and Dr. Peter Castle

Functional Textile System

*National Research Laboratory (2004–2005)*

P.I.: Dr. Eunae Kim

## TEACHING EXPERIENCE

APPAREL PRE-PRODUCTION PROCESS, Production Planning Class at Junior Level

*Kansas State University (2012 fall)*

APPAREL PATTERN DEVELOPMENT, Pattern Making Class at Junior Level

*Kansas State University (2012 fall)*

FASHION PRODUCT DEVELOPMENT, Fashion Technology Class at Senior Level

*Hong Kong Polytechnic University (2011 fall & 2012 spring)*

FASHION PRODUCT DESIGN, Pattern Making Class at Junior Level

*North Carolina State University (2011 spring)*

FASHION PRODUCT ANALYSIS, Sewing Class at Sophomore Level

*North Carolina State University (2011 spring)*

Computer programs involved in graduate studies, research, and teaching:

- TC<sup>2</sup> 3D Body Scanner
- Vicon Motion Capture System
- Novel Pressure Sensor
- OptiTex
- Gerber Accumark
- Lectra Diamino Fashion
- Pointe Carré
- Adobe Illustrator
- Adobe Photoshop

## PUBLICATIONS

1. Suh M., Carroll K., Grant, E., & Oxenham O. (2012), Investigation into Feasibility of Inductively Coupled Antenna for Smart Clothing, *International Journal of Clothing Science and Technology*, Submission no. IJCST-10-2012-0064.
2. Suh M., Carroll K., Grant, E., & Oxenham O. (2012), Effect of Fabric Substrate and Coating Material on the Quality of Conductive Printing, *Journal of Textile Institute*, Acceptance no. TJTI 714107.
3. Suh M., Park J.H., and Lee H.J. (2012), Strategic Use of CAD/CAM Technology for Fully Automated Apparel Production, *American Association of Textile Chemists and Colorists Review*, January/February 2012, pp. 37-42.
4. Smith-Jackson T., Carroll K., Kim S., Suh M., and Ryu Y.S. (2010) Socially-smart Computing to Support Older Adults with Severe Visual Impairments: Proof-of-concept, *Gerontechnology*, Vol. 9, No.4, pp. 472-483.
5. Suh M., Carroll K., and Cassill N., (2010) Critical Review on Smart Clothing Product Development, *Journal of Textile and Apparel, Technology and Management*, Vol. 6, No.4, pp. 1-18.
6. Suh M. (2010) E-Textiles for Wearability: Review on Electrical and Mechanical Properties, *Textile World*, June 2010, [http://www.textileworld.com/Articles/2010/June/Web\\_Issue/E-Textiles.html](http://www.textileworld.com/Articles/2010/June/Web_Issue/E-Textiles.html).
7. Suh M. (2010), E-Textiles for Wearability: Review of Integration Technologies, *Textile World*, April 2010, [http://www.textileworld.com/Articles/2010/April/Issue/Etextiles\\_Feature.html](http://www.textileworld.com/Articles/2010/April/Issue/Etextiles_Feature.html)
8. Suh M., Seyam A.M., Oxenham W., and Theyson T., (2010) Static Generation and Dissipation of Polyester Continuous Filament Yarn, *Journal of Textile Institute*, Vol.101, No.3, pp. 261-269.

## PATENTS

1. Luk S.K., Yu W.M., Lau L.L., Suh M. (2012) 种可交换的罩杯桥接系统 (Exchangeable Bra Cup Linking System), *China Patent Office*, Filing no. 201210411129.2.
2. Luk S.K., Yu W.M., Lau L.L., Suh M. (2012) 种胸部测量装置 (Breast Measuring System), *China Patent Office*, Filing no. 201210413114.X.

## PRESENTATIONS

1. Suh M., Carroll K., and Oxenham W. (2012) Development of Wireless Transmission between Inductively Coupled Layers in Smart Clothing, Oral presentation at *International Textile and Apparel Association Annual Conference*, November 14–17, 2012, Honolulu, HI, USA.
2. Carroll K., Powell N., and Suh M. (2011) Assessment of Factors Affecting Student Creative Output in Development of New Textile Products, Poster presentation at *International Textile and Apparel Association Annual Conference*, November 17–20, 2011, Philadelphia, PA, USA.
3. Suh M., Carroll K., and Oxenham W. (2011) Effect of Protective Coating on the Performance of Wearable Antennas, Oral presentation at *HCI International*, July 9–14, 2011, Orlando, FL, USA.
4. Suh M., Carroll K., and Oxenham W. (2011) Development of Wireless Transmission between Inductively Coupled Fabric Layers in Smart Clothing, Poster presentation at *Young Generation Technical Leadership Conference*, January 7–9, 2011, Seattle, WA, USA.
5. Suh M., Carroll K., Smith-Jackson T., and Kim S. (2010) Analysis of Dressing Activities for People with Severe Visual Impairments, Poster presentation at *International Textile and Apparel Association Annual Conference*, October 27–30, 2010, Montreal, Canada.
6. Oxenham W., Liu L., Seyam A.M., Suh M., and Theyson T. (2010) Static Electrification Generated by the Interaction of Yarns and Guides, Oral Presentation at *7th International Conference of Textile Research Division - Current and Prospective Innovations in the Chemistry and Technology of Textiles*, October 10–12, 2010, Cairo, Egypt.

7. Ryu Y.S., Smith-Jackson T., Carroll K., Kim S., and Suh M. (2010) Embodied Cognition and Inclusive Design: Using Gestures to Elicit User Requirements for Interactive Systems, Oral presentation at *Third International Conference on Applied Human Factors and Ergonomics*, July 17–20, 2010, Miami, FL, USA.
8. Kim S., Smith-Jackson T., Carroll K., Suh M., and Mi N. (2009) Implications of Participatory Design for Wearable Near and Far Environment Awareness System for Users with Severe Visual Impairments, Oral presentation at *Fifth International Conference on Universal Access in Human-Computer Interaction*, July 19–24, 2009, San Diego, CA, USA.
9. Suh M., Seyam A.M., and Oxenham W. (2009) Static Generation and Dissipation of Polyester Continuous Filament Yarn, Poster presentation at *US-Korea Conference 2009*, July 16–19, 2009, Raleigh, NC, USA.
10. Park J.H., Suh M., McClusky D., Carroll K., Fornaro R. and Lee H.J. (2009) Rehabilitative Smart Apparel for Wounded Soldiers, Oral presentation at *Techtextil North America*, April 21–23, 2009, Las Vegas, NV, USA.
11. Suh M., Seyam A.M., Oxenham W. (2009) Static Generation and Dissipation in Textiles. Poster presentation at *NC State University Graduate Research Symposium*, March 18, 2009, Raleigh, NC, USA.
12. Suh M., Seyam A.M., Oxenham W., and Theyson T. (2008) Static Generation and Dissipation of Polyester Continuous Filament Yarn. Poster presentation at *Futurotextiel 2008*, November 13–15, 2008, Kortrijk, Belgium.
13. Suh M., Seyam A.M., Oxenham W. (2008) Static Generation and Dissipation in Textiles. Oral presentation at *Fiber Society 101th Scientific Session*, November 11–12, 2008, Edmonton, Canada.
14. Seyam A.M., Oxenham W., Cai Y., Liu L., and Suh M. (2007) Static Generation and Control in Textile Systems. Poster presentation at *15<sup>th</sup> Annual National Textile Center Forum*, February 25–27, 2007, Greenville, SC, USA.
15. Suh M., Kim S., Han E., and Kim E. (2005) Clustering Wool Fabrics and Rating Fabric Hand. Oral presentation at *2005 Seoul International Clothing and Textiles Conference*, August 18–21, 2005, Seoul, Korea.