

LUSHAN (SARINA) SUN Curriculum Vitae

Assistant Professor
Department of Consumer & Design Sciences
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RESEARCH INTERESTS Design cognition | Human-computer interaction (2D/3D CAD) | Design thinking
3D Printing application | Digital textile printing | 3D Body scanning & simulation
Sustainable design (minimal waste, slow design) | Design research methods

EDUCATION **Ph.D. (2012 – 2015)** UNIVERSITY OF MISSOURI, Columbia, MO
Department of Textile & Apparel Management
Emphasis: Product Development & Manufacturing
Support area: Digital technology
Certificate: Center for the Digital Globe Graduate Certificate (Fall 2014)
Advisor: Jean Parsons

M.S. (2010 – 2012) KANSAS STATE UNIVERSITY, Manhattan, KS
Department of Apparel, Textiles & Interior Design
Emphasis: Apparel Design
Advisor: Sherry Haar

B.S. (2004 – 2008) LOUISIANA STATE UNIVERSITY, Baton Rouge, LA
Department of Textiles, Apparel & Merchandising
Emphasis: Apparel Design
Minor: Communication Study

DISSERTATION Accessing axis: Exploring design cognition from visual and haptic experiences as an apparel designer in digital 3D imaging using 3D printing technology.

THESIS Slow design in Chinese Su Xiu embroidery for apparel: applying silk, cotton, and wool flosses to silk and cotton fabrics with physical resist dyeing techniques using natural dye.

PROFESSIONAL EXPERIENCE

ACADEMIC **Assistant Professor**, Auburn University, Auburn, AL (2015-present)

- Graduate faculty status awarded October 2015
- Teaching focus: computer-aided design, portfolio development, specialized design

Graduate Instructor, University of Missouri, Columbia, MO (2014-2015)

Graduate Teaching Assistant

- University of Missouri, Columbia, MO (2012-2014)
- Kansas State University, Manhattan, KS (2010-2011)

Graduate Research Assistant, University of Missouri, Columbia, MO

- Knipschild Design & Research Lab, Kitty Dickerson Technology Lab, University of Missouri, Columbia, MO (2012-2014)

- KSU Historic Textile & Costume Museum, Kansas State University, Manhattan, KS (2010-2011)

INDUSTRY

Intern, *Zhenxin Dyeing Factory* (振心染坊) (produces Nantong Blue Calico 蓝印花布), Chinese Intangible Heritage base, Nantong, Jiangsu, China (January 2010).

Assistant Manager, KOHL'S, Lake Charles, LA (2009)

Intern, KOHL'S, Baton Rouge, LA (June-August 2008)

Intern, *Shen Shou Art Museum* (exhibits traditional Chinese embroidery Shen Xiu), Nantong, Jiangsu, China, (July-Aug 2007)

Intern, Tao Yu Mei apparel company (specialize in Qi Pao), Nanjing, Jiangsu, China (June 2007)

DESIGN SCHOLARSHIP (awards also noted in awards section)

PEER REVIEWED

Sun, L. & Parsons, J. *Renascence*. (November 12, 2015). Digitally printed textile ensemble exhibited at International Textile & Apparel Association, November 9-13, Santa Fe, NM. Acceptance rate: 37.5%. **Awarded Lectra Outstanding Award: Best of Show & Alvanon Creative Design Award.**

Sun, L. & Parsons, J. (faculty mentor). *Accessing Axis*. (November 15, 2014). 3D printed and digitally printed textile ensemble exhibited at International Textile & Apparel Association Mounted Gallery, November 12-16, 2014, Charlotte, NC. Acceptance rate: 43%.

Sun, L. & Parsons, J. (faculty mentor). *Striated*. (November 15, 2014). Digitally printed soy knit ensemble exhibited at International Textile & Apparel Association Live Gallery, November 12-16, 2014, Charlotte, NC. Acceptance rate: 43%.

Sun, L. & Haar, S. (faculty mentor). *Naturally Refined Series: Rippled*. (October 16, 2013). Fiber art exhibited at International Textile & Apparel Association Fiber Art Mounted Exhibit, October 15-18, 2013, New Orleans, LA. Acceptance rate: 38.5%.

Sun, L. & Haar, S. (faculty mentor). *Captured*. (November 5, 2011). Fiber art exhibited at International Textile & Apparel Association Fiber Art Mounted Exhibit, November 3-5, 2011, Philadelphia, PA. Acceptance rate: 39%.

Sun, L. & Haar, S. (faculty mentor). *Cooled by indigo*. (November 5, 2011). Sustainable apparel exhibited at International Textile & Apparel Association Fiber Art Mounted Exhibit, November 3-5, 2011, Philadelphia, PA. Acceptance rate: 39%. **Awarded Sustainable Design in Educators for Socially Responsible Apparel Business (ESRAB).**

SOLO EXHIBITION

Sun, L. (March 5-24, 2012). *Naturally Refined 源: Sustainable Fiber Art Exhibition*. Master thesis solo exhibition: fiber art garment collection showcased through exposition format. (Advisor: Haar, S.) William T. Kemper Art Gallery, K-State Student Union, Manhattan, KS.

NON-PEER REVIEWED

Sun, L. & Parsons, J. (faculty mentor). (April 2014). *Striated*. Digitally printed design using engineered pattern and minimal waste flat pattern technique using soy knit fabric. Filleppello display case, Gwynn Hall, University of Missouri, Columbia, MO.

Sun, L. & Stealey, J. (faculty mentor). (September 20, 2013). *Mapped*. Digitally printed design

using engineered pattern and 3D simulated garment design developed with multidisciplinary CAD software featured in Art and Design in the Digital Age: 3D Virtual Fashion Student Project Showcase. iLab, Stanley Hall, University of Missouri, Columbia, MO.

Sun, L. & Sohn, M. (faculty mentor). (September 20, 2013). Watercolor. 3D simulated garment design developed with multidisciplinary CAD software featured in Art and Design in the Digital Age: 3D Virtual Fashion Student Project Showcase. iLab, Stanley Hall, University of Missouri, Columbia, MO.

Sun, L. & Haar, S. (faculty mentor) (December 14-April 16, 2011). Captured & Cooled by Indigo. Two fiber art garment designs featured in Textile Surface Design class student exhibition, Color Irresistible. Justin Hall Display Cases, Kansas State University, Manhattan, KS.

JOURNAL PUBLICATION

Sohn, M. & **Sun, L.** (2013). An exploratory study of virtual fit testing using 3D virtual fit models and garment simulation technology in technical design. 3D Body Scanning Technologies 4th International Conference and Exhibition. November 19-20, 2013. Long Beach CA, USA.

INVITED

Wang, Q., **Sun, L.**, Zhang, C. & Sun, J. The challenges and perspectives of cellulosic material development towards 3D printing textile and apparel product.

PUBLICATION IN PREP

Sun, L. & Parsons, J. Haptic and visual experience of apparel designer in 3D modeling wearable product using 3D printing technology.

Sun, L. & Hawley, J. M. Personal meaning making: Exploring consumer's perception of indigenous handcrafted apparel and textile product.

PROFESSIONAL RESEARCH PRESENTATION (presenter in bold)

INVITED

Sun, L. (2014). Accessing Axis as a traditional apparel designer. Special topic on *Design practice/design research: Retrievable, contextualized & making a contribution to knowledge*. International Textile and Apparel Association, November 12-16, Charlotte, NC.

PEER REVIEWED

Sun, L. & Lu, S. (November 11, 2015). The 3D printing era: A conceptual model for the textile and apparel industry. International Textile and Apparel Association, November 9-13, Santa Fe, NM.

Sun, L. & Parsons, J. (2014). 3D printing for apparel design: Exploring apparel design process using 3D modeling software. International Textile and Apparel Association, November 12-16, Charlotte, NC. **Awarded Vinci Award for Excellence in Research Emphasizing Technology.**

Sun, L. & Hawley, J. M. (2014). Personal meaning making: Exploring consumer's perception of indigenous handcrafted apparel and textile product. International Textile and Apparel Association, November 12-16, Charlotte, NC.

Sohn, M. & **Sun, L.** (2014). Effectiveness of 3D CAD in apparel design education: 3D fitting and pattern adjustment for plus size fit model. International Textile And Apparel Association, November 12-16, Charlotte, NC.

Sohn, M. & Sun, L. (2014). Exploratory study of 3D virtual fit testing using virtual garment simulation technology. International Textile and Apparel Association, November 12-16, Charlotte, NC.

Sun, L. & LeHew, M. (2013). 70 Years of Fashion in the Chinese Dress Exploring Sociocultural influences on Chinese Qipao's Hemline Height and Waistline Fit in 1920s-1980s. International Textile and Apparel Association, Oct 15-18, 2013, New Orleans, LA.

PROFESSIONAL DEVELOPMENT FOR DESIGN

- *OptiTex (2D/3D CAD/CAM) program training*, OptiTex (in progress)
- *Knowing Your Value for Academic Career negotiation*, ITAA, Santa Fe, NM (November 2015).
- *Autodesk Fusion 360 (3D CAD) Workshop*, Auburn University, Auburn, AL (September 2015).
- *Arts of Fashion MasterClass-Series, Rainbow Warrior*, instructed by Tony Delcampe, director of fashion department at La Cambre, Brussels, and Laurent Edmond, first creative assistant to Maison Martin Margiela, San Francisco, CA (October 2008).

FASHION SHOWCASE/COMPETITION

- *Freedom by Fashion 2013: Unmasking Modern Day Slavery*. Benefiting Human Trafficking Coalition. Plaza Event Center, Columbia, MO. (November 2013).
- *Mizzou Botanic Garden Plant Fashion Show*. Stotler Lounge, Memorial Union, University of Missouri, Columbia, MO. (April 18, 2012).
- *2010 K-State Project Runway*. Student Union Forum Hall, Kansas State University, Manhattan, KS, (February 19, 2010). **Awarded first place for fiber art design**
- *Arts of Fashion Symposium, Rainbow Warrior*, San Francisco, CA (October 2008).
- *Rock N Wear: Jungle Fever Fashion Competition*. Serrano's Salsa Company, Baton Rouge, LA. (November 3, 2006). **Finalist selected for competition in wearable art challenge**

FUNDING/GRANT

PENDING/ IN PROGRESS

- \$10,000—**Sun, L. & Windham, J.** (2015). Exploration of Wearable Product Virtual Design Process and Cognition using 3D Parametric Modeling and 3D Printing Technology. *Intramural Grants Program*, Auburn University.
- \$7,000—**Sun, L.**, Sadachar, A., Peek, P. & Chattaraman, V. (2015). The effectiveness of fashion trend forecasting site in the reflective process of ePortfolio development. *ePortfolio Project Grant*, Auburn University.

DESIGN RESEARCH

- \$1,850—**Sun, L.** (2015). Accessing axis as an apparel designer: exploring design cognition from visual and haptic experiences in digital 3D imaging for 3D printing technology (Doctoral dissertation research). *Center for Digital Globe Research Fund*, University of Missouri.
- \$500—**Sun, L.** (2015). Accessing axis as an apparel designer: exploring design cognition from visual and haptic experiences in digital 3D imaging for 3D printing technology (Doctoral dissertation research). *Graduate Student Association-Textile & Apparel Management Research Fund*, Textile & Apparel Management, University of Missouri.
- \$300— **Sun, L.** (2012). Naturally Refined 源: Sustainable Fiber Art Exhibition. Exhibited Master thesis fiber art garment collection, William T. Kemper Art Gallery, K-State Student Union, Manhattan, KS (Advisor: Haar, S.). *KSU Apparel & Textile Graduate Student Organization Thesis Scholarship*, Apparel, Textile & Interior Design, Kansas State University.
- \$1,000— **Sun, L.** (2011). Slow design in Chinese Su Xiu embroidery for apparel: applying silk,

cotton, and wool flosses to silk and cotton fabrics with physical resist dyeing techniques using natural dye. (Advisor: Haar S.). *Stewart Family Research Fund*, College of Human Ecology, Kansas State University.

- \$210— **Sun, L.** (2011). Slow design in Chinese Su Xiu embroidery for apparel: applying silk, cotton, and wool flosses to silk and cotton fabrics with physical resist dyeing techniques using natural dye. (Advisor: Haar S.). *Agriculture Experiment Station*, Department of Apparel, Textiles & Interior Design, Kansas State University.

COLLABORATIVE PROJECT

- \$1,000—Sohn, M., Yoon, S., **Sun, L.** (2013). Communication of sizing and fit: Examining relationship between consumers' perception of body shape preference. *Margaret Mangel Catalyst Fund*, University of Missouri.
- \$22, 500—Hawley, J. M., Sohn, M., Ha-Brookshire, J., **Sun, L.** & 3 others (2013). Leading the Future of the Retail Industry through Creating Digital/Virtual Student Project Showcases, *MU Interdisciplinary Innovation Fund, Provost Office*, University of Missouri.
- \$1,000—Sohn, M., Ha-Brookshire, J. & **Sun, L.** (2012). Examining the effectiveness of 3D virtual fit testing: Focusing on the plus-size apparel product development process. *Mizzou Alumni Association Richard Wallace Research Incentive Grant*, University of Missouri.

TRAVEL

- \$495.41—*Graduate Professional Council Travel Award*, University of Missouri (2014).
- \$400—*Graduate Student Association-Textile & Apparel Management Travel Fund*, Textile & Apparel Management, University of Missouri (2013).
- \$800—*Apparel & Textile Graduate Student Organization Travel Fund*, Apparel, Textile & Interior Design, Kansas State University (2011).

AWARDS/HONORS

RESEARCH/DESIGN

- *Alvanon Creative Design Award*, **Sun, L.** & Parsons, J. (2015). Renascence. Design research presented at 2015 International Textile and Apparel Association Annual Conference, Santa Fe, NM.
- \$500—*Lectra Outstanding Design Award: Best of Show*, **Sun, L.** & Parsons, J. (2015). Renascence. Design research presented at the 2015 International Textile and Apparel Association Annual Conference, Santa Fe, NM.
- \$200—*Vinci Award for Excellence in Research Emphasizing Technology*, **Sun, L.** & Parsons, J. (2014). 3D printing for apparel design: Exploring apparel design process using 3D modeling software. Design research presented at the 2014 International Textile and Apparel Association Annual Conference, Charlotte, NC.
- *Sustainable design for Educator for Socially Responsible Apparel Business*, **Sun, L.** (2011). Cooled by Indigo. Design research presented at the 2011 International Textile and Apparel Association Annual Conference, Philadelphia, PA.
- \$150—*First place in 2010 K-State Project Runway* for wearable art design using recyclable material, Kansas State University, Manhattan, KS (2010).

TEACHING

- \$500—*Graduate Student Teaching Award*, Department of Textiles & Apparel Management, University of Missouri (2014).

SCHOLARSHIP

- \$7,450—*COHO Scholarship*, College of Human Ecology, Kansas State University (2011).
- \$20,400—*Bengal Legacy Scholarship*, Louisiana State University (2004-2008).

TEACHING

COURSES

Auburn University, Auburn, AL

Developed new syllabus, lectures, projects, and grading rubrics.

CADS 2770 CAD for Apparel Design (expected Spring 2016)

CADS 1740 Aesthetics for Design (expected Spring 2016)

CADS 4960 Problem in Design: ITAA Design I & II

- 8 undergraduate students (present-expected Spring 2016)

CADS 4500 Portfolio Development for Apparel Designers

- 14 undergraduate students (present)

University of Missouri, Columbia, MO

GI: Developed new syllabus, lectures, projects, and grading rubrics.

TA: Assisted in-class demo/trouble-shooting and assignment/project grading

TAM 2580 Digital Textile & Apparel Application

- 18 undergraduate students (Spring 2015)
- TA: 10 undergraduate students (Spring 2014)
- TA: 21 undergraduate students (Spring 2013)

TAM 2480 Textile and Apparel Presentation Techniques

- 18 undergraduate students (Fall 2014)
- TA: 14 undergraduate students (Fall 2013)
- TA: (Fall 2012)

TAM 2380 Integrated Apparel Design and Production I (Patternmaking)

- TA: 8 undergraduate & 2 graduate students (Spring 2014)
- TA: 12 undergraduate students (Spring 2013)

TAM 3480 Technical Design

- TA: 9 undergraduate students (Spring 2013)

Kansas State University, Manhattan, KS

- *AT 300 Apparel Production I*
 - TA: 12 undergraduate students (Spring 2011)
 - TA: 12 undergraduate students (Spring 2010)

DESIGN COMPETITION MENTORING

- International Textile & Apparel Association (ITAA) Undergraduate Creative Scholarship 2016 (in progress)
- Young Men's Association (YMA) Fashion Scholarship Competition 2015 (pending)
- Robin Ruth—Student Design League (SDL) Collegiate Wear Design Challenge 2015 (3 top designs selected including first place winner)
- Alpaca Owner's Association Student Design Competition 2015 (top 10)

PROFESSIONAL DEVELOPMENT FOR TEACHING

- *New Faculty Scholar* program, Auburn University, Auburn, AL (present)
- *RESPOND: Partnering for Campus Mental Health workshop*, University of Missouri, Columbia, MO (January 2015).
- *Creativity in Textile and Apparel Education: Love and the secret of good design*. Workshop by Basia Szkutnicka, Program Director, London College of Fashion. ITAA, Charlotte, NC. (November, 2014).

MEMBERSHIP/SERVICE

MEMBERSHIP

- Member of International Textiles & Apparel Association (ITAA) (2011-present)
- Member of Graduate Student Organization-Textile & Apparel Management (GSA-TAM), University of Missouri (2012-2015)
- Member of 3D Printing Club, University of Missouri (2013-2015)
- Member of Apparel & Textiles Graduate Student Organization (ATGSO), Kansas State University (2010-2012)
- Member of Friends of the Textile & Costume Museum, Louisiana State University (2006-2007)
- Member of Hemline, Louisiana State University (2006-2007)

ORGANIZATION SERVICE

- Auburn University “This is Research” Creative Scholarship Committee (2015-present)
- ITAA Design Education and Scholarship Committee (2014-present)
- Mentoring & Peer Review Committee, Consumer & Design Sciences, Auburn University (2015-present)
- Apparel Merchandising & Design Association (AMDA) Faculty Advisor, Consumer & Design Sciences, Auburn University (2015-present)
- Graduate Professional Council Representative-Mental Health External Committee – Graduate Student Organization-Textile & Apparel Management, University of Missouri (2014-2015)
- Community Outreach Coordinator – Graduate Student Association-Textile & Apparel Management, University of Missouri (2012-2013)
- Sustainability Chair – Apparel & Textiles Graduate Student Organization, Kansas State University (2011-2012)

COMMUNITY SERVICE

- Instructing Apparel Supply Chain Workshop for Mizzou Adventures in Education, University of Missouri (2014)
- Developing and instructing accessory crafting workshop, Travels of T-shirt, for 2013 State 4H Fashion Revue, University of Missouri (2013-2014)
- Judge for *2013 State 4H Fashion Revue competition*, University of Missouri (2013).
- Judge for *2012 Eco-Fashion Design Competition & Fashion Show*, Hugh Stephen’s Library, Stephen’s College (2013).
- Presenting apparel design lecture for 4-H fashion design workshop (2012)

SKILLS

DESIGN/ PRODUCT DEVELOPMENT

- Apparel construction: Patternmaking, Draping, Industrial/home machine sewing
- Presentation technique (non-digital/digital media): Fashion illustration, Technical flat development, Presentation board for line development, Trend analysis, Spec pack development
- Surface design: Digital textile printing (applying repeat & engineered prints), Chinese traditional embroidery (Su Xiu), Natural dye and physical resist dyeing techniques (Shibori)

CAD PROGRAM

- 2D CAD: Adobe Illustrator, Adobe Photoshop, Adobe InDesign, website design (ePortfolio)
- 3D CAD: Rhinoceros, Autodesk 3D Studio Max, Autodesk Fusion 360, Autodesk Meshmixer, Google Sketchup, NetFab (3D printing software)
- Apparel 2D/3D CAD/CAM: OptiTex

EQUIPMENT

- TC² (3D body scanning system), digital textile printer, industrial/home sewing machine