

# Sibei Xia, Ph.D.

Associate Professor, Department of Textiles, Apparel Design, and Merchandising  
Louisiana State University, Baton Rouge, LA, 70803

*Updated on 08/15/2025*

Email: [sibeixia@lsu.edu](mailto:sibeixia@lsu.edu)

Google Scholar: <https://scholar.google.com/citations?hl=en&user=uOIJILoAAAAJ>

Personal Website: <https://sibeixia.github.io/>

## EDUCATION

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### **Doctor of Philosophy in Textile Technology Management**

*December  
2018*

*North Carolina State University, Raleigh, NC*

- Dissertation: Xia, S. (2018). Predict 3D Body Measurements with 2D Images [Ph.D., North Carolina State University].  
<https://repository.lib.ncsu.edu/handle/1840.20/37092>
- Committee: Dr. Cynthia Istook (Co-Chair), Dr. Andre West (Co-Chair), Dr. David Bruner, and Dr. Raju Vatsavai

### **Master of Computer Science in Data Science Track**

*May 2017*

*North Carolina State University, Raleigh, NC*

### **Master of Science in Textiles**

*December  
2013*

*North Carolina State University, Raleigh, NC*

- Thesis: Xia, S. (2013). *Sizing Systems Created Using SizeUSA Data for Three Body Shapes* [Master, North Carolina State University].  
<http://www.lib.ncsu.edu/resolver/1840.16/9807>
- Committee: Dr. Cynthia Istook (Chair), Dr. Lori Rothenberg, Dr. Trevor Little, and Dr. Yingjiao Xu

### **Bachelor of Engineering in Fashion Design and Engineering**

*July 2011*

*Donghua University, Shanghai, China*

- Undergraduate Thesis: Design of Cup Inner Shape Based on Breast Forms
- Advisor: Dr. Fang Fang

### **Minor in Japanese**

*July 2011*

*East China Normal University, Shanghai, China*

## APPOINTMENT

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### **Associate Professor**

*August 2025*

*Dept. of Textiles, Apparel Design and Merchandising*

*Louisiana State University, Baton Rouge, LA*

- Teaching & Student Advising: 65%
- Research: 30%
- Service: 5%

### **Assistant Professor**

*August 2019 – May 2025*

*Dept. of Textiles, Apparel Design and Merchandising*

*Louisiana State University, Baton Rouge, LA*

- Teaching & Student Advising: 65%

- Research: 30%
- Service: 5%

## RESEARCH INTEREST

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Develop creative textile products and solutions using advanced fashion technologies (such as 3D body scanning and flatbed knitting) with the support of fashion informatics (such as text mining and computer vision).

## JOURNAL ARTICLE

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### Submitted/Under Review

- 3 Gu, L., **Xia, S.**, Li, J., Ruan, Y., & Istook, C. (Submitted). Enhanced Feature Curve Morphing for Automated Flattening of 3D Garments with Controlled Ease Distribution. *Clothing and Textiles Research Journal*.
- 2 Guo, S., **Xia, S.**, & Chi, T. (Submitted). A Comparative Evaluation of 3D Apparel Simulation Accuracy for Customized Garment Development. *Clothing and Textiles Research Journal*.
- 1 Zhao, R., **Xia, S.**, & Liu, C. (Submitted). A systematic review on the use of artificial intelligence technologies in fashion education. *International Journal of Technology and Design Education*.

### Published

- 19 Zhang, Y., Liu, C., & **Xia, S.** (2025). From hype to value: Harness generative AI in fashion retailing: A technology-organization-environment perspective. *Journal of Electronic Business & Digital Economics*, Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/JEBDE-11-2024-0042>
- 18 Ye, X., Ruan, Y., **Xia, S.**, & Gu, L. (2025). Adoption of digital intangible cultural heritage: a configurational study integrating UTAUT2 and immersion theory. *Humanities and Social Sciences Communications*, 12(1), 1-17. <https://doi.org/10.1057/s41599-024-04222-8>
- 17 **Xia, S.**, & Liu, C. (2024). An Exploration of Parents' Preference for Young Children's Smart Textile Products. *Clothing and Textiles Research Journal*, 0(0). <https://doi.org/10.1177/0887302X241300441>
- 16 Zhang, Y., Liu, C., & **Xia, S.** (2024). Investigating young consumers' acceptance of hemp fiber textiles and apparel: an analysis of Partial Least Squares Structural Equation Modeling. *Research Journal of Textile and Apparel*, Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/RJTA-07-2024-0128>
- 15 Lang, C., Su, Q., **Xia, S.**, & Zboja, J. (2024). The effectiveness of social media communication of sustainable fashion brands: evidence from consumer engagement. *Atlantic Journal of Communication*, 33(2), 237–256. <https://doi.org/10.1080/15456870.2024.2419410>
- 14 Hakeem, F., **Xia, S.**, & Stannard, C. (2024). Evaluating 3D Apparel Simulation Technology's Performance of Creative Pattern-Cutting Techniques with the Assist of ASVT. *Clothing and Textiles Research Journal*, 0(0). <https://doi.org/10.1177/0887302X241278929>
- 13 **Xia, S.**, Li, J., Istook, C. L., West, A. J., & Bruner, D. (2024). A regression waist level defined for 3D body scans. *The Journal of The Textile Institute*, 116(6), 1115–1123. <https://doi.org/10.1080/00405000.2024.2366705>
- 12 **Xia, S.**, Liu, C., Zhang, Y., & Cameron, B. (2024). Thermochromic Yarns' Application in Fever Detection for Young Children. *Applied Sciences*, 14(11), 4604. <https://doi.org/10.3390/app14114604>
- 11 Liu, C., **Xia, S.**, & Lang, C. (2023). Consumer coping with Covid-19: an exploratory study of clothing consumption shifts and the effect of consumer resilience. *Journal of Fashion*

- Marketing and Management*, 27(5), 810-825. <https://doi.org/10.1108/JFMM-10-2022-0221>
- 10 Liu, C., **Xia, S.**, & Lang, C. (2023). Online luxury resale platforms and customer experiences: A text mining analysis of online reviews. *Sustainability*, 15(10):8137. <https://doi.org/10.3390/su15108137>
  - 9 ul Hasan, H. M. R., Lang, C., & **Xia, S.** (2023). Investigating consumer values of secondhand fashion consumption in the mass market vs. luxury market: A text-mining approach. *Sustainability*, 15(1), 254. <https://doi.org/10.3390/su15010254>
  - 8 **Xia, S.**, & Liu, C. (2022). Applying machine learning to study the marketing mix's effectiveness in a social marketing context: Fashion brands' Twitter activities in the pandemic. *International Journal of Business Analytics (IJBAN)*, 9(6), 1–17. <https://doi.org/10.4018/IJBAN.313416>
  - 7 **Xia, S.**, Li, J., Istook, C.L. and West, A.J. (2022). A 2D image body measurement system developed with neural networks and a color-coded measurement garment. *International Journal of Clothing Science and Technology*. 34(6), 967-978. <https://doi.org/10.1108/IJCST-08-2021-0114>
  - 6 Li, J., **Xia, S.**, West, A. J., & Istook, C. L. (2022). Fashionable sportswear working as a body measurement collecting tool. *International Journal of Clothing Science and Technology*, 34(4), 589–604. <https://doi.org/10.1108/IJCST-07-2021-0090>
  - 5 Liu, C., **Xia, S.**, & Lang, C. (2021). Clothing consumption during the Covid-19 pandemic: Evidence from mining tweets. *Clothing and Textiles Research Journal*, 39(4), 314–330. <https://doi.org/10.1177/0887302X211014973>
  - 4 Lang, C., **Xia, S.**, & Liu, C. (2020). Style and fit customization: A web content mining approach to evaluate online mass customization experiences. *Journal of Fashion Marketing and Management: An International Journal*, 25(2), 224–241. <https://doi.org/10.1108/JFMM-12-2019-0288>
  - 3 **Xia, S.**, Guo, S., Li, J., & Istook, C. (2019). Comparison of different body measurement techniques: 3D stationary scanner, 3D handheld scanner, and tape measurement. *The Journal of The Textile Institute*, 110(8), 1103–1113. <https://doi.org/10.1080/00405000.2018.1541437>
  - 2 **Xia, S.**, & Istook, C. (2017). A method to create body sizing systems. *Clothing and Textiles Research Journal*, 35(4), 235–248. <https://doi.org/10.1177/0887302X17713298>
  - 1 **Xia, S.** (2015). Market forecasting of super strength fiber: Glass fiber. *Journal of Textile and Apparel, Technology and Management*, 9(2). <https://ojs.cnr.ncsu.edu/index.php/JTATM/article/view/7533>

## PATENT

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- 2 **Xia, S.**, & Liu, C. (2024). *Cloth comprising thermochromic yarns* (United States Provisional Application No. 63/612,857).
- 1 Istook, C. L., West, A. J., **Xia, S.**, Li, J., & Collier, J. B. H. (2020). *Devices and methods for extracting body measurements from 2D images* (United States Patent No. US20200367590A1). <https://patents.google.com/patent/US20200367590A1/en>

## CONFERENCE/CREATIVE SCHOLARSHIP

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### Research Artifact – Paper

- 1 Akbari, M., Oghazian, F., Ghaffari, A., & **Xia, S.** (Full paper submitted). Integrating bio-polymers and textiles for structurally active knitted shells. *Annual Conference of the Association for Computer Aided Design in Architecture 2025*

#### **Research Artifact – Abstract**

- 28 Zhao, R., **Xia, S.**, & Liu, C. (Accepted for poster presentation). Harnessing AI in fashion education: A systematic literature review and future directions. *International Textile and Apparel Association Annual Conference*
- 27 Zhang, Y., Liu, C., **Xia, S.**, & Zhao, R. (Accepted for poster presentation). Charting digital fashion: Categorizing applications and navigating Generative AI's transformative impact. *International Textile and Apparel Association Annual Conference*
- 26 Zhang, Y., Liu, C., **Xia, S.**, & Zhao, R. (Accepted for poster presentation). Themes and trends in AI-related empirical consumer studies in fashion (2022-2025): A systematic and bibliometric review. *ITAA-KSCT Joint Symposium*
- 25 **Xia, S.**, Zhao, R., Liu, C., & Zhang, Y. (Accepted for oral presentation). Bridging Generative AI and jacquard knitwear design: classroom exploration and evaluation of using Midjourney and ChatGPT. *International Textile and Apparel Association Annual Conference*
- 24 Zhang, Y., Liu, C., **Xia, S.**, & Cameron, B. (Accepted for oral presentation). Identifying and characterizing potential hemp fashion consumers: A supervised and unsupervised statistical learning approach. *International Textile and Apparel Association Annual Conference*
- 23 Liu, C. & **Xia, S.** (Accepted for oral presentation) Wearable technology for young children: A segmentation study of parental values and product feature preferences. *International Textile and Apparel Association Annual Conference*
- 22 Zhao, J., Ye, X., Ruan, Y., & **Xia, S.** (Accepted for poster presentation). The influence of perceived virtual influencer characteristics on fashion adoption: A social identity perspective. *International Textile and Apparel Association Annual Conference*
- 21 Ruan, Y., **Xia, S.**, & Gu, L. (Accepted for oral presentation). Exploring the impact of virtual fitting room features on consumer meaning and word of mouth: A self-determination theory perspective. *International Textile and Apparel Association Annual Conference*
- 20 Gu, L., Ruan, Y., & **Xia, S.** (Accepted for oral presentation). Automated 3D garment flattening with an improved feature curve morphing technique for ease distribution. *International Textile and Apparel Association Annual Conference*
- 19 Guo, S., **Xia, S.**, & Chi, T. (Accepted for oral presentation). A comparative study of 3D apparel simulation accuracy in Browzwear VStitcher and Clo3D for customized garment development. *International Textile and Apparel Association Annual Conference*
- 18 Zhao, R., **Xia, S.**, & Liu, C. (Accepted for poster presentation). Harnessing AI in fashion education: A systematic literature review and future directions. *International Textile and Apparel Association Annual Conference*
- 17 Lang, C., Liu, C., & **Xia, S.** (2025). Mapping the mind of participating in the circular fashion. *International Textile and Apparel Association Annual Conference Proceedings 81(1)*. doi: <https://doi.org/10.31274/itaa.18776>
- 16 Zhang, Y., Liu, C., **Xia, S.**, & Cameron, B. (2025). An investigation of young consumers' acceptance of hemp fashion products using partial least squares structural equation modeling analysis. *International Textile and Apparel Association Annual Conference Proceedings 81(1)*. doi: <https://doi.org/10.31274/itaa.18575>
- 15 Taylor, M., Stannard, C., **Xia, S.**, & Wang, C. (Presented as Poster). Work-assist exoskeletons: A review and potential applications for construction workers. *International Textile and Apparel Association Annual Conference*

- 14 **Xia, S.**, Liu, C., & Zhang, Y. (2024, March 21). *A knitted cap for newborns made with thermochromic yarn* [Oral]. Knit Futures Symposium 2024, Kent, OH, United States.
- 13 **Xia, S.**, Liu, C., Zhang, Y., & Cameron, B. (2024, January 31). *A thermochromic hat for young children's fever detection* [Poster]. LSU Provost's Fund Symposium 2024, Baton Rouge, LA, United States.
- 12 Liu, C., Lang, C., & **Xia, S.** (2023). Consumer continuance in fashion resale practice: The motivations, barriers, and the role of resilience, and self-improvement [Poster]. *International Textile and Apparel Association Annual Conference Proceedings*, 80(1). doi: <https://doi.org/10.31274/itaa.17142>
- 11 Liu, C., & **Xia, S.** (2023). Exploring the consumer market for industrial hemp fiber textiles and clothing: the development of a conceptual model and research propositions [Oral]. *International Textile and Apparel Association Annual Conference Proceedings*, 80(1). doi: <https://doi.org/10.31274/itaa.17115>
- 10 **Xia, S.**, Gu, L., & Ruan, Y. (2023). Observing runway fashion's assortment migration from 1988 to 2023: Through the lens of computer vision [Oral]. *International Textile and Apparel Association Annual Conference Proceedings*, 80(1). doi: <https://doi.org/10.31274/itaa.17110>
- 9 Seo, S., Liu, C., **Xia, S.**, & Lang, C. (2022). Consumer resilience and clothing decluttering behavior during Covid-19 pandemic: A conceptual framework [Oral]. In The American Collegiate Retailing Association (Eds.), *American Collegiate Retailing Association (ACRA) 2022 Conference Proceedings* (pp.189-193). Available at [https://acraretail.org/resource/resmgr/conference\\_materials/2022\\_conference\\_proceedings.pdf](https://acraretail.org/resource/resmgr/conference_materials/2022_conference_proceedings.pdf)
- 8 Liu, C. & **Xia, S.** (2022). Is digital fashion retailing offering a leap in value to consumers? A preliminary web content analysis of consumers' perceptions [Oral]. *International Textile and Apparel Association Annual Conference Proceedings*, 79(1). doi: <https://doi.org/10.31274/itaa.16009>
- 7 Liu, C., **Xia, S.**, & Lang, C. (2022). Coping with COVID-19: How resilient consumers clothing consumption during the pandemic [Oral]. *International Textile and Apparel Association Annual Conference Proceedings*, 78(1). doi: <https://doi.org/10.31274/itaa.13561>
- 6 **Xia, S.**, Li, J., Istook, C. L., West, A. (2020). What is the most appropriate way to define a 3D waist level? [Oral] *International Textile and Apparel Association Annual Conference Proceedings* 77(1). doi: <https://doi.org/10.31274/itaa.11834>
- 5 **Xia, S.** (2020). A pilot study on AutoPatternmaker: a web-based application generating customized basic block automatically [Oral]. *International Textile and Apparel Association Annual Conference Proceedings* 77(1). doi: <https://doi.org/10.31274/itaa.11835>
- 4 **Xia, S.**, West, A. J., Istook, C., & Li, J. (2018). Acquiring accurate body measurements on a smartphone from supplied colored garments for online apparel purchasing platforms and e-retailers [Oral]. *Proceedings of 3DBODY.TECH 2018 - 9th International Conference and Exhibition on 3D Body Scanning and Processing Technologies*, Lugano, Switzerland, 16-17 Oct. 2018. <https://doi.org/10.15221/18.126>
- 3 **Xia, S.**, Hada, M., Yan, J., & Nagle, H. T. (2018). Development of a posture detector using a flex sensor [Poster]. *International Textile and Apparel Association Annual Conference Proceedings*, 75(1). <https://www.iastatedigitalpress.com/itaa/article/id/1381/>
- 2 **Xia, S.**, Istook, C. L., West, A., & Li, J. (2018). Algorithms behind a body measurement app built on smartphones from supplied color-coded garments for online apparel purchasing platforms [Oral]. *International Textile and Apparel Association Annual Conference Proceedings*, 75(1). <https://www.iastatedigitalpress.com/itaa/article/id/1187/>

- 1 Xia, S., Guo, S., Li, J., & Istook, C. L. (2017). Comparison of body measuring techniques: whole body scanner, handheld scanner, and tape measure [Oral]. *International Textile and Apparel Association Annual Conference Proceedings*, 74(1).  
<https://www.iastatedigitalpress.com/itaa/article/id/1904/>

#### **Design Exhibition – Ownership**

- 4 Xia, S., Zhao, R., Liu, C., & Zhang, Y. (Accepted). The hemp shell: Zero-waste tube-to-wear garment through flatbed knitting. *International Textile and Apparel Association Annual Conference*
- 3 Xia, S. (Accepted). The wave dress: A sewing-free whole garment innovation on a V-bed knitting machine. *International Textile and Apparel Association Annual Conference*
- 2 Xia, S. (October 2024). Soft scales. *Hemp Impressions: Sustainable Fiber and Fashion Reimagined*, Baton Rouge, LA.
- 1 Xia, S. (2023). Tube-to-wear: A shaped garment template for 2-bed flat machines achieved by jacquard knitting. *International Textile and Apparel Association Annual Conference Proceedings*, 80(1). doi: <https://doi.org/10.31274/itaa.17109>

#### **Design Exhibition – Mentorship**

- 5 Taylor, M., Stannard, C. (Mentor), & Xia, S. (Mentor) (Accepted). Work-assist exoskeleton harness for female construction workers. *International Textile and Apparel Association Annual Conference*
- 4 Zhao R., Zhang, Y., Xia, S. (Mentor), & Liu, C. (Mentor) (Accepted). Reimagining the chiton: advancing zero-waste knitwear through historical inspiration and digital innovation. *International Textile and Apparel Association Annual Conference*
- 3 Zhao R., Xia, S. (Mentor), & Liu, C. (Mentor) (2025). Sustainable outdoor gear using knit and woven fabrics: A case of shell jacket. *International Textile and Apparel Association Annual Conference Proceedings 81(1)*. doi: <https://doi.org/10.31274/itaa.18779>
- 2 Hakeem, F. & Xia, S. (Mentor) (2022). Beyond Abaya. *International Textile and Apparel Association Annual Conference Proceedings*, 79(1). <https://doi.org/10.31274/itaa.15886>
- 1 Hakeem, F. & Xia, S. (Mentor) (2022). The fragrance of the East. *International Textile and Apparel Association Annual Conference Proceedings*, 78(1).  
<https://doi.org/10.31274/itaa.13685>

### **SELECTED PRESS RELEASE**

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- 7 Peck, G. (2024, December 9). *Health technology meets fashion: LSU researchers create temperature-monitoring hats for babies*. WAFB9.  
<https://www.wafb.com/2024/12/09/health-technology-meets-fashion-lsu-researchers-create-temperature-monitoring-hats-babies>
- 6 McClure, O. (2024, May 17). *Event highlights research to improve wildland firefighting gear*. LSU AgCenter. <https://www.lsuagcenter.com/articles/page1715957092420>
- 5 Dudgeon, C. (2023, February 15). *Smart wearable to track temperature of infants*. WTiN.  
<https://www.wtin.com/article/2023/february/13-02-23/smart-wearable-to-track-temperature-of-infants/?freeviewlinkid=157867>
- 4 Wilkins, J. (2023, January 28). *LSU researcher develops color-changing hats to detect fevers in infants; special yarn used*. The Advocate.  
[https://www.theadvocate.com/baton\\_rouge/news/education/lsu-researcher-develops-hats-to-detect-infant-fevers/article\\_dea74eb0-9cd5-11ed-97dc-03d6bb9403cb](https://www.theadvocate.com/baton_rouge/news/education/lsu-researcher-develops-hats-to-detect-infant-fevers/article_dea74eb0-9cd5-11ed-97dc-03d6bb9403cb)

- 3 Lawrence, S. (2023, January 23). *LSU researcher develops fabric that can detect fevers in infants*. WBRZ. <https://www.wbrz.com/news/lsu-researcher-develops-fabric-that-can-detect-fevers-in-infants/>
- 2 Lang, M. (2023, January 20). *LSU researcher develops smart textile that detects fevers in infants*. LSU AgCenter. <https://www.lsuagcenter.com/profiles/tblanchard/articles/page1674228409008>
- 1 Blanchard, T. (2021, March 23). *Yoga pants for the win: LSU AgCenter researchers study fashion clothing consumption during COVID-19 pandemic*. LSU AgCenter. <https://www.lsuagcenter.com/profiles/lbenedict/articles/page1616516372856>

## MULTI-STATE PROJECT

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- 1 McQuerry, M., McKinney, E., Easter, E., Meyer, S., Hwang, C., **Xia, S.**, Lou, X., Guo, S., DenHartog, E., Martindale, A., & Stannard, C. (10/01/2019 to 09/30/2024). *EW3192: Improving Safety and Health of Wildland Firefighters Through Personal Protective Clothing*. Western Association of Agricultural Experiment Station Directors, USDA National Institute of Food and Agriculture

## PROJECT IN PROGRESS

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- 8 Hakeem, F., Stannard, C., & **Xia, S.** (Ready for submission). *Testing Three-Dimensional Apparel Simulation Technologies for Replicating Creative Apparel Designs*.
- 7 **Xia, S.** & Qiu, Z. (Project in progress). Comparison between SizeUSA and SizeNorthAmerica.
- 6 Bolaji, J., **Xia, S.**, Lou, X., McQuerry, M., & Easter, E. (Project in progress). *Study of Current Wildland Firefighter PPC with samples from Louisiana State*.
- 5 **Xia, S.**, Zhao, R., Liu, C., & Lang, C. (Project in progress). *Co-Design Applications in Fashion Education*.
- 4 **Xia, S.**, Taylor, M.G., Stannard, C., & Wang, C. (Project in progress). *Study Body Dimensions to Help Develop Exoskeletons for Women Construction Workers*.
- 3 Lang, C., Liu, C., & **Xia, S.** (Project in progress). *Resale and Consumer Resilience*.
- 2 **Xia, S.**, Gu, L., & Ruan, Y. (Project in progress). *Explore Runway Fashion Changes from 1988 to 2023 Through the Lens of Computer Vision*.
- 1 Ruan, Y., **Xia, S.**, & Gu, L. (Project in progress). *Sentiment Analysis on Consumers' Coping with Shanghai's Covid-19 Outbreak and Lockdowns Using Weibo Data*.

## TEACHING EXPERIENCE

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### Assistant/Associate Professor

Since Fall 2019

Dept. of Textiles, Apparel Design and Merchandising  
Louisiana State University, Baton Rouge, LA

Course Summary: knitting, computer-aided design with and without AI, 3D simulation, flat pattern making, draping, product development, and literature review

- Fall 2019
  - ✓ TAM 3037 Intermediate Apparel Product Design (3 credits)
- Spring 2020
  - ✓ TAM 3032 Textile and Apparel Product Development (3 credits)
  - ✓ TAM 3230 Pattern Design with Computer Application (3 credits)
- Fall 2020
  - ✓ TAM 3037 Intermediate Apparel Product Design (3 credits)

- ✓ TAM 3091 Emerging Technology (3 credits)
- ✓ TAM 7030 Creativity in Design (3 credits)
- ✓ TAM 7091/9091 Independent Research (1-6 credits)
- ✓ TAM 8000/9000 Thesis/Dissertation Research (1-6 credits)
- Spring 2021
  - ✓ TAM 3032 Textile and Apparel Product Development (3 credits)
  - ✓ TAM 3230 Pattern Design with Computer Application (3 credits)
  - ✓ TAM 8000/9000 Thesis/Dissertation Research (1-6 credits)
- Fall 2021
  - ✓ TAM 3430 Emerging Technology (3 credits)
  - ✓ TAM 4037 Apparel Design Through Draping (3 credits)
  - ✓ TAM 7030 Creativity in Design (3 credits)
  - ✓ TAM 7091/9091 Independent Research (1-6 credits)
  - ✓ TAM 8000/9000 Thesis/Dissertation Research (1-6 credits)
- Spring 2022
  - ✓ TAM 1232 Digital Illustration for Apparel Designers (3 credits)
  - ✓ TAM 3032 Textile and Apparel Product Development (3 credits)
  - ✓ TAM 3230 Pattern Design with Computer Application (3 credits)
  - ✓ TAM 7091/9091 Independent Research (1-6 credits)
  - ✓ TAM 8000/9000 Thesis/Dissertation Research (1-6 credits)
- Fall 2022
  - ✓ TAM 3430 Emerging Technology (3 credits)
  - ✓ TAM 7030 Creativity in Design (3 credits)
  - ✓ TAM 7041 Introduction to Research in Textiles, Apparel Design, and Merchandising (3 credits)
  - ✓ TAM 8000/9000 Thesis/Dissertation Research (1-6 credits)
- Spring 2023
  - ✓ TAM 1232 Digital Illustration for Apparel Designers (3 credits) – 2 sections
  - ✓ TAM 3230 Pattern Design with Computer Application (3 credits)
  - ✓ TAM 8000/9000 Thesis/Dissertation Research (1-6 credits)
- Fall 2023
  - ✓ TAM 3430 Emerging Technology (3 credits)
  - ✓ HNRS 4000 Thesis for Honor Undergraduate (3 credits)
  - ✓ TAM 7030 Creativity in Design (3 credits)
  - ✓ TAM 7041 Introduction to Research in Textiles, Apparel Design, and Merchandising (3 credits)
  - ✓ TAM 8000/9000 Thesis/Dissertation Research (1-6 credits)
- Spring 2024
  - ✓ TAM 1232 Digital Illustration for Apparel Designers (3 credits) – 2 sections
  - ✓ TAM 3230 Pattern Design with Computer Application (3 credits)
  - ✓ TAM 7091/9091 Independent Research (1-6 credits)
  - ✓ TAM 8000/9000 Thesis/Dissertation Research (1-6 credits)
- Fall 2024
  - ✓ TAM 3430 Emerging Technology (3 credits)
  - ✓ TAM 7030 Creativity in Design (3 credits)
  - ✓ TAM 7041 Introduction to Research in Textiles, Apparel Design, and Merchandising (3 credits)
  - ✓ TAM 7091/9091 Independent Research (1-6 credits)
  - ✓ TAM 8000/9000 Thesis/Dissertation Research (1-6 credits)



- Spring 2025
  - ✓ TAM 1232 Digital Illustration for Apparel Designers (3 credits) – 2 sections
  - ✓ TAM 3230 Pattern Design with Computer Application (3 credits)
  - ✓ TAM 4091 Special Topics in TAM (1-3 credits)
  - ✓ TAM 7091/9091 Independent Research (1-6 credits)
  - ✓ TAM 8000/9000 Thesis/Dissertation Research (1-6 credits)
- Fall 2025
  - ✓ TAM 3430 Emerging Technology (3 credits)
  - ✓ TAM 7030 Creativity in Design (3 credits)
  - ✓ TAM 7041 Introduction to Research in Textiles, Apparel Design, and Merchandising (3 credits)

**Graduate Lecturer**

2015 – 2017

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

Course Summary: sewing and flat pattern making

- Fall 2015
  - ✓ FTD 215 Fashion Design 1 (3 credits)
- Fall 2016
  - ✓ FTM 219 Fashion Product Analysis Lab (3 credits)
- Fall 2017
  - ✓ FTD 215 Fashion Design 1 (3 credits)

**Summer Camp Group Leader**

Summer 2017

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

- Teach high school students how to use their creative skills and recycle garments into newly constructed outfits

**Graduate Teaching Assistant**Spring 2016 &  
Spring 2017*Wilson College of Textiles, North Carolina State University, Raleigh, NC*

- FTM 497 Senior Fashion Collection Studio (6 credits) & FTD 479 Senior Textile Design Studio (6 credits)
  - ✓ Assist students in preparing items for critiques and showcases
  - ✓ Assist with the preparation of items for shows

**Instructor, Sewing and Embroidery Workshops**Fall 2012 –  
Spring 2013*TechShop, Raleigh, NC*

- Train members on using sewing machines
- Train members on using embroidery machines

**Lab Assistant, Apparel Lab**Fall 2011 –  
Spring 2013*Wilson College of Textiles, North Carolina State University, Raleigh, NC*

- Maintain machines and other equipment in the Apparel Lab
- Assist classes that utilize the Apparel Lab
- Safety train students on using industrial sewing machines and the Lectra Cutter

**STUDENT ADVISING****Committee Member (Doctoral)**2025 -  
present*TAM, Louisiana State University, Baton Rouge, LA*

- Student name: Mary-Gwynnedd Taylor
- Research title: TBD

<b>Committee Member (Doctoral)</b>	2025 - present
<i>TAM, Louisiana State University, Baton Rouge, LA</i>	
<ul style="list-style-type: none"> <li>• Student name: Rui Zhao</li> <li>• Research title: TBD</li> </ul>	
<b>Committee Member (Doctoral)</b>	2025 - present
<i>TAM, Louisiana State University, Baton Rouge, LA</i>	
<ul style="list-style-type: none"> <li>• Student name: Mfon-Abasi Obong</li> <li>• Research title: TBD</li> </ul>	
<b>Committee Member (Doctoral)</b>	2025 - present
<i>Department of Construction Management, Louisiana State University, Baton Rouge, LA</i>	
<ul style="list-style-type: none"> <li>• Student name: Fatemeh Ghafari</li> <li>• Research title: TBD</li> </ul>	
<b>Committee Member (Doctoral)</b>	2023 - present
<i>TAM, Louisiana State University, Baton Rouge, LA</i>	
<ul style="list-style-type: none"> <li>• Student name: Yanbo Zhang</li> <li>• Research title: TBD</li> </ul>	
<b>Committee Member (Non-Thesis Master)</b>	2025
<i>TAM, Louisiana State University, Baton Rouge, LA</i>	
<ul style="list-style-type: none"> <li>• Student name: LaDyra Lyte</li> <li>• Research title: Redressing Fashion History</li> </ul>	
<b>Committee Member (Doctoral)</b>	2024
<i>TAM, Louisiana State University, Baton Rouge, LA</i>	
<ul style="list-style-type: none"> <li>• Student name: Khawlah Otayf</li> <li>• Research title: Investigating the Jazan Region's Ethnic Wedding Dress Tradition and the Influence of Social Media on the Jazan Region's Dress Selection</li> </ul>	
<b>Honor Thesis Director (Undergraduate)</b>	2024
<i>TAM, Louisiana State University, Baton Rouge, LA</i>	
<ul style="list-style-type: none"> <li>• Student name: Simone Koskie</li> <li>• Topic: Stitching Sustainability: A Brief Analysis of Reducing Environmental Impact and Designing</li> </ul>	
<b>Committee Member (Master)</b>	2024
<i>TAM, Louisiana State University, Baton Rouge, LA</i>	
<ul style="list-style-type: none"> <li>• Student name: Lauren Lansdell</li> <li>• Research title: Analysis of Fit Issues with Home Sewing Patterns and the Perceived Success of Pattern Alterations</li> </ul>	
<b>Committee Co-Chair (Doctoral)</b>	2023
<i>TAM, Louisiana State University, Baton Rouge, LA</i>	
<ul style="list-style-type: none"> <li>• Student name: Fatimah Hakeem</li> <li>• Research title: The Ability of 3D Simulation Technology to Produce Complex Garments</li> </ul>	
<b>Committee Co-Chair (Doctoral)</b>	2023
<i>TAM, Louisiana State University, Baton Rouge, LA</i>	
<ul style="list-style-type: none"> <li>• Student name: Rakib Hasan</li> <li>• Research title: Consumer Experience of Second-Hand Fashion Consumer</li> </ul>	
<b>Committee Co-Chair (Doctoral)</b>	2022
<i>TAM, Louisiana State University, Baton Rouge, LA</i>	

- Student name: Nakib Hasan
- Research title: Understanding Consumers' Use Experience on Electrically Heated Jacket: A Study on Online Review Using Topic Modeling

**Committee Member (Doctoral)** 2022

*TAM, Louisiana State University, Baton Rouge, LA*

- Student name: Jeremy Bernardoni
- Research title: The Prime Aesthetic: Exploratory Research on the Relationship between the Imprinting of Aesthetic Dress Preferences and the Sensitive Period of Emerging Adulthood

**Committee Member (Doctoral)** 2022

*TAM, Louisiana State University, Baton Rouge, LA*

- Student name: Divya Desai
- Research title: Transitioning from Traditional In-Person Studio-Based Education of Apparel Design Courses to Online Education During the Covid-19 Pandemic

**Committee Member (Non-Thesis Master)** 2021

*TAM, Louisiana State University, Baton Rouge, LA*

- Student name: Katherine Frost
- Research title: History Inspired Knitting Design

**Committee Member (Master)** 2020

*TAM, Louisiana State University, Baton Rouge, LA*

- Student name: Saiful Islam
- Research title: Consumers' Preferred Body Scanning Technology: A Comparison

## PROFESSIONAL ASSOCIATION

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Member of ArcInTex	2023 – Present
Member of the International Textile and Apparel Association (ITAA)	2013 – Present

## PROFESSIONAL SERVICE EXPERIENCE

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### Internal Service

TAM Faculty Evaluation Committee	Member since 2019
TAM Graduate Committee	Member since 2019
LSU Fashion Association	Faculty advisor since 2019

### External Service – Conference

ITAA Annual Conference	Reviewer, April 2025
International Conference on Human-Computer Interaction	Reviewer, 2025
ITAA Annual Conference	Reviewer, April 2024
ITAA Annual Conference	Presider, 2023
ITAA Annual Conference	Reviewer, May 2023
ITAA Annual Conference	Reviewer, May 2022
ACRA Annual Conference	Track chair, March 2022
ITAA Annual Conference	Presider, 2021
ITAA Annual Conference	Reviewer, May 2020

### External Service – Reviewer

Scientific Report	Manuscript reviewer since 2025
International Journal of Occupational Safety and Ergonomics	Manuscript reviewer since 2024
International Journal of Human-Computer Interaction	Manuscript reviewer since 2024
Journal of Textile and Apparel, Technology and Management	Manuscript reviewer since 2024
International Journal of Clothing Science and Technology	Manuscript reviewer since 2024
Fashion Practice	Manuscript reviewer since 2023
Journal of Theoretical and Applied Electronic Commerce Research	Topical Collection guest editor since 2023
Textile Research Journal	Manuscript reviewer since 2020
Clothing and Textiles Research Journal	Manuscript reviewer since 2020
Fashion and Textiles	Manuscript reviewer since 2020
Family & Consumer Sciences Research Journal	Manuscript reviewer since 2019

### **Outreach Activity**

AATCC Webinar	Panelist, July 12, 2024
NY Tech Week - AI Design in Textiles <a href="https://lu.ma/7wxztl8i">https://lu.ma/7wxztl8i</a>	Panelist, June 5, 2024
Collaborative Event on Wildland Firefighter PPE	Host, May 16-17, 2024
ITAA Webinar Series about Design Scholarship <i>Exploring the Impact of AI in Apparel Research and Education - Experience and Insights</i>	Panelist, March 2024

## **FUNDED PROJECT**

### **External Fund (\$834,157)**

<b>National Science Foundation I-Corps – National Cohort</b>	2024-2025
<ul style="list-style-type: none"> <li>Title: Functional Textile for Babies</li> <li>Technical Leader (PI): <b>Sibei Xia</b></li> <li>Entrepreneurial Leader: Yanbo Zhang</li> <li>Co-Entrepreneurial Leader (Co-PI): Chuanlan Liu</li> <li>Industrial Mentor: Shannon Collins</li> <li>Total Amount: \$50,000</li> </ul>	
<b>Cotton Incorporated</b>	2024
<ul style="list-style-type: none"> <li>Title: Implementing Co-designing Cotton Knitted Products into an Undergraduate Course through Amazon Web Services (AWS)</li> <li>Principal Investigator: <b>Sibei Xia</b></li> <li>Co-Principle Investigators: Chuanlan Liu and Chunmin Lang</li> <li>Total Amount: \$7,482</li> </ul>	
<b>National Science Foundation I-Corps – Southwest Cohort</b>	2023
<ul style="list-style-type: none"> <li>Title: Baby Fever Detection Hat</li> <li>Technical Leader (PI): <b>Sibei Xia</b></li> <li>Entrepreneurial Leader: Yanbo Zhang</li> <li>Co-Entrepreneurial Leader (Co-PI): Chuanlan Liu</li> <li>Industrial Mentor: Cydney Severio</li> <li>Total Amount: Up to \$5,000</li> </ul>	

**National Science Foundation**

2022-2025

- Title: Collaborative Research: FW-HTF-R: Wearable Safety Sensing and Assistive Worker-Robot Collaboration for an Augmented Workforce in Construction
- Principal Investigator: Chao Wang
- Co-principle Investigators: Fereydoun Aghazadeh, Tracey Rizzuto, and Casey Stannard
- Non-PI Senior Personnel: **Sibei Xia**
- Total Amount: \$720,000

**Cotton Incorporated**

2020

- Title: Cotton Technologies and Innovations- Applied Learning Activity of Cotton for Students in Textiles, Apparel Design, and Merchandising
- Principal Investigator: Chunmin Lang
- Co-principle Investigators: Chuanlan Liu and **Sibei Xia**
- Total Amount: \$48,675

**National Science Foundation I-Corps**

2017

- Title: FitApp
- Principal Investigator: Cynthia Istook
- Co-Principle Investigator: Andre West
- Entrepreneurial Leaders: **Sibei Xia** and Jiayin Li
- Total Amount: Up to \$3,000

**Internal Fund (\$91,918)****LSU Provost's Fund for Innovation in Research – Collaborator Support Fund**

2024-2025

- Title: National Collaborative Research Event on Wildland Firefighting Personal Protective Clothing Improvement
- Principal Investigator: **Sibei Xia**
- Amount: \$7,500

**LSU Therapeutic Cannabis Research**

2023-2025

- Title: Exploring the Markets for Hemp Fiber Textiles and Clothing and Consumer Acceptance of Industrial Hemp Textile Products: Education and Outreach
- Principal Investigator: Chuanlan Liu
- Co-principle Investigators: **Sibei Xia**, Casey Stannard, and Bruce Cameron
- Amount: \$67,420

**LSU Provost's Fund for Innovation in Research Grants - Emerging Research**

2023-2024

- Title: Wearable Technology Development with Emerging Knitting Technology: A Pilot Study of Making Baby Thermal Monitor Hats
- Principal Investigator: **Sibei Xia**
- Amount: \$9,998

**LSU Provost's Fund for Innovation in Research Grants – Faculty Travel Grants**

2023

- Title: Technologic Innovations in Fashion – ITAA Presentations
- Principal Investigator: **Sibei Xia**
- Amount: Up to \$1,000

**LSU Provost's Fund for Innovation in Research Grants - Summer Stipend**

2023

- Title: Clothing Analysis Web App Developed with Computer Vision and Fashion Informatics: A Soft-Landing Solution for Designers
- Principal Investigator: **Sibei Xia**
- Amount: \$6,000

## SUBMITTED PROPOSAL

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<b>Cotton Incorporated</b>	2025
<ul style="list-style-type: none"> <li>Title: Understanding Greenhouse Gas Emissions and Life Cycle Assessment of Cotton: Engaging Students' Hands, Heads, and Hearts</li> <li>Principal Investigator: Chunmin Lang</li> <li>Co-principal Investigators: Chuanlan Liu, <b>Sibei Xia</b>, and Bruce Cameron</li> <li>Amount: \$40,000</li> <li>Status: Pending</li> </ul>	
<b>American Institute of Architects (AIA)</b>	2024
<ul style="list-style-type: none"> <li>Title: 3DTeXCrete: Integrating Concrete 3D Printing and Textiles for Innovative Architectural Structures</li> <li>Principal Investigator: Farzaneh Oghazian</li> <li>Co-principal Investigators: <b>Sibei Xia</b> and Ali Kazemian</li> <li>Amount: \$29,922</li> <li>Status: Not Funded</li> </ul>	
<b>LA Board of Regents</b>	2023
<ul style="list-style-type: none"> <li>Title: Enhance Research and Small Business Entrepreneurship in Wearable Technology with the Support of a Thermal and Sweating Manikin</li> <li>Principal Investigator: <b>Sibei Xia</b></li> <li>Co-principal Investigators: Chuanlan Liu and Bruce Cameron</li> <li>Amount: \$200,000</li> <li>Status: Not Funded</li> </ul>	
<b>Cotton Incorporated</b>	2023
<ul style="list-style-type: none"> <li>Title: Developing Comprehensive Understanding and Knowledge About Cotton Among College Students: A Focus on Technologies and Innovation</li> <li>Principal Investigator: Chuanlan Liu</li> <li>Co-principal Investigators: <b>Sibei Xia</b>, Chunmin Lang, and Bruce Cameron</li> <li>Amount: \$49,898</li> <li>Status: Not Funded</li> </ul>	
<b>Cotton Incorporated</b>	2023
<ul style="list-style-type: none"> <li>Title: Global Textiles and Apparel Economics- Sourcing of Cotton for an Apparel Business</li> <li>Principal Investigator: Chunmin Lang</li> <li>Co-principal Investigators: Chuanlan Liu and <b>Sibei Xia</b></li> <li>Amount: \$9,972</li> <li>Status: Not Funded</li> </ul>	
<b>LA Board of Regents</b>	2022
<ul style="list-style-type: none"> <li>Title: Promoting Industrial Hemp Economy: Exploring the Markets for Hemp Fiber Textiles and Clothing</li> <li>Principal Investigator: Chuanlan Liu</li> <li>Co-principal Investigator: <b>Sibei Xia</b></li> <li>Amount: \$19,999</li> <li>Status: Not Funded</li> </ul>	
<b>Cotton Incorporated</b>	2022
<ul style="list-style-type: none"> <li>Title: Fashion Entrepreneurship in Action: New Course Development and Implementation</li> <li>Principal Investigator: Chuanlan Liu</li> </ul>	

- Co-principal Investigator: **Sibei Xia**
- Amount: \$9,963
- Status: Not Funded

**US Department of Agriculture** 2021

- Title: Transforming the Capacity of Higher Education in Human Sciences to Cultivate Entrepreneurs and Promote Rural Economic Development through Embracing Digitalization and Automation Technology
- Principal Investigator: Chuanlan Liu
- Co-principal Investigator: **Sibei Xia**
- Amount: \$150,000
- Status: Not Funded

**National Endowment for the Humanities** 2021

- Title: Digital Knitting Institute: Stimulating Historical Knitting with Emerging Technologies
- Principal Investigator: **Sibei Xia**
- Co-principal Investigators: Chuanlan Liu and Casey Stannard
- Amount: \$128,166
- Status: Not Funded

**University of Alberta** 2019

- Title: Motivations and Skills to be Successful Fashion Entrepreneurs: A Longitudinal Study to Develop the Effective Fashion Business Incubation Service
- Principal Investigator: Chunmin Lang
- Co-principal Investigator: **Sibei Xia**
- Amount: \$25,000
- Status: Not Funded

**LA Board of Regents** 2019

- Title: Enhancement of Education and Research Infrastructure in Fashion Automation by Building a Holistic Fashion Technology Lab
- Principal Investigator: **Sibei Xia**
- Co-principal Investigators: Chuanlan Liu, Casey Stannard, and Bruce Cameron
- Amount: \$199,459
- Status: Not Funded

## HONORS AND AWARD

**National Association of Colleges and Teachers of Agriculture (NACTA)** December 2024

**Teaching Award Certificate**

*Awarded by the LSU College of Agriculture, Baton Rouge, LA*

**Best Track Paper in Big Data** March 2022

Proceedings of the 2022 ACRA Conference, New Orleans, LA

*Awarded by the American Collegiate Retailing Association*

**Travel Assistance Awards** Fall 2018

*Awarded by the Graduate Student Association, North Carolina State University, Raleigh, NC*

**Best Oral Presentation Award: Supply Chain and Apparel Innovation** April 2018

*Awarded by the Textile Association of Graduate Students*

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

**Recognition for Excellence in Laboratory Teaching** March 2017

*Awarded by the Graduate Student Association, North Carolina State University, Raleigh, NC*

**2<sup>nd</sup> Place in the Advanced Level of Cotton First Competition**

*November 2012*

*Awarded by the Wilson College of Textiles, North Carolina State University, Raleigh, NC*

**Special Prize in Cotton Couture**

*October 2011*

*Awarded by the Wilson College of Textiles, North Carolina State University, Raleigh, NC*

**Outstanding Study Scholarships**

*2008, 2009, & 2010*

*Awarded by Donghua University, Shanghai, China*

**Outstanding Cadre**

*2009*

*Awarded by the Red Cross Society, Donghua University, Shanghai, China*

## STUDENTS AWARD

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**ITAA Award for Innovative Design Scholarship – Graduate Category**

*October 2021*

*Awarded by the International Textile and Apparel Association*

- Design Title: The Fragrance of the East
- Awardee: Fatimah Hakeem
- Mentor: SibeI Xia

## CERTIFICATION

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**Completion of Summer 2024 C-I Teaching Lab for New C-I Teachers**

*August 2024*

*Issued by LSU Communication Across the Curriculum*

**Artificial Intelligence (AI) in Education Explorer**

*February 2024*

*Issued by Auburn University*

**Completion of Cloud Across the Curriculum**

*July 2023*

*Issued by Louisiana State University*

**Completion of AWS Academy Graduate – AWS Academy Cloud Foundations**

*July 2023*

*Issued by AWS Academy*

**Completion of Shima Seiki USA. Step Course – Knit Beginner 2**

*October 2022*

*Issued by Shima Seiki USA. Inc.*

**Certificate of Accomplishment in Teaching**

*May 2018*

*Issued by Graduate School, North Carolina State University, Raleigh, NC*

**Master Track in Data Science Certificate**

*May 2017*

*Issued by College of Engineering, North Carolina State University, Raleigh, NC*

**Graduate Certificate in Consumer Textile Product Design and Development**

*December 2013*

*Issued by North Carolina State University, Raleigh, NC*

**Certificate of Volunteering**

*June 2012*

*Issued by Wilson College of Textiles, North Carolina State University, Raleigh, NC*

**Japanese-Language Proficiency N2**

*August 2010*

*Jointly administered by the Japan Foundation and the Japan Educational Exchanges and Services*

## INDUSTRIAL EXPERIENCE

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**Product Developer***Spring – Summer  
2014**Gym Rags, Raleigh, NC*

- Develop women's sportswear with shaping functions

**Intern***Fall 2013 –  
Spring 2014**Haws USA, Apex, NC*

- Prepare orders
- Monitor product inventories

**Intern***Spring 2013**Royal Park Uniforms, Burlington, NC*

- Alter patterns of production in Gerber AccuMark

**Intern, Department of Quality Control***Summer 2011**The Children's Place Shanghai Office, Shanghai, China*

- Check samples' qualities and organize specification sheets

**Intern, Department of Product Development***Spring 2011**K-boxing Men's Wear (Shanghai) Co. LTD, Shanghai, China*

- Assist the product manager with the preparation of the seasonal order placement fair
- Conduct trend research

**Salesperson, IORI Shop***Fall 2010**Jiuguang Dept. Store, Shanghai, China***TECHNICAL SKILL**

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**Programming**

- Python
- R
- JavaScript
- Java

**Computer-Aided Design Programs**

- Optitex
- CLO3D
- Adobe Suite
- Shima Seiki design programs
- AccuMark
- Midjourney

**Machines**

- Industrial sewing machines
- Lectra cutter
- NScan pattern scanner
- Size Stream 3D body scanner
- [TC]2 3D body scanner
- Shima Seiki flatbed knitting machines
- Shima Seiki whole garment printer

**Others**

- SPSS
- Amazon Web Services (AWS)

## LANGUAGE

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**Chinese:** Native

**English:** Professional working proficiency

**Japanese:** Limited working proficiency