Sibei Xia, Ph.D.

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Louisiana State University, Baton Rouge, LA, 70803
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Personal Website: https://sibeixia.github.io/

EDUCATION

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	

RESEARCH INTERESTS

Increase customer satisfaction through product development and innovation (function-oriented, fit-oriented, and aesthetics-oriented), emerging textile and apparel technology (digital fashion and advanced knitting), and fashion informatics (text mining and computer vision).

JOURNAL ARTICLES

Articles Under Review

4 **Xia, S.**, & Liu, C. (2024). *An Exploration of Parents' Preferences for Young Children's Smart Textile Products*. Manuscript in review.

3   Hakeem, F., **Xia, S.**, & Stannard, C. (2024). *Evaluate 3D Simulation Technology's Performance in Structured Designs With the Assist of ASVT*. Manuscript in review.

2   Lang, C., Su, J., **Xia, S.**, & Zboja, J. (2024). *Consumer Engagement in Social Media Communications of Sustainable Fashion Brands: A Data Mining Approach*. Manuscript in review.

1   **Xia, S.**, Li, J., Istook, C. L., West, A., & Bruner, D. (2024). *A Regression Waist Level Defined for 3D Body Scans*. Manuscript in review.

Published Articles

11   Liu, C., **Xia, S.**, & Lang, C. (2023b). Consumer coping with Covid-19: an exploratory study of clothing consumption shifts and the effect of consumer resilience. *Journal of Fashion Marketing and Management*, Vol. ahead-of-print No. ahead-of-print. https://doi.org/10.1108/JFMM-10-2022-0221

10   Liu, C., **Xia, S.**, & Lang, C. (2023a). 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), Article 1. 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.* Vol. 34 No. 6, pp. 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

PATENTS

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

CONFERENCES

Oral/Poster Presentations

13 **Xia, S.**, Liu, C., Zhang, Y., & Cameron, B. (2024). A thermochromic hat for young children's fever detection. *LSU Provost's Fund Symposium 2024.*

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. *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. *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. *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. 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

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. *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. *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? *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. *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. *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. *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. *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. *International Textile and Apparel Association Annual Conference Proceedings*, *74*(1). https://www.iastatedigitalpress.com/itaa/article/id/1904/

Creative Scholarship

4   **Xia, S.**, Liu, C., & Zhang, Y. (2024). A knitted cap for newborns made with thermochromic yarn. Accepted for *Knit Futures Symposium 2024*

3   **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

2   Hakeem, F. & **Xia, S.** (Mentor) (2022a). The fragrance of the East. *International Textile and Apparel Association Annual Conference Proceedings*, 78(1). https://doi.org/10.31274/itaa.13685

1   Hakeem, F. & **Xia, S.** (Mentor) (2022b). Beyond Abaya. *International Textile and Apparel Association Annual Conference Proceedings*, 79(1). https://doi.org/10.31274/itaa.15886

SELECTED PRESS RELEASES

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.html

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

PROJECT IN PROGRESS

6   **Xia, S.**, Taylor, M.G., Stannard, C., & Wang, C. (2024). *Study Body Dimensions to Help Develop Exoskeletons for Women Constructor Workers*. Project in progress.

5   Lang, C., Liu, C., & **Xia, S.** (2024). *Resale and Consumer Resilience*. Project in progress.

4   **Xia, S.**, Gu, L., & Ruan, Y. (2024). *Explore Runway Fashion Changes from 1988 to 2023 Through the Lens of Computer Vision*. Project in progress.

3 Ruan, Y., **Xia, S.**, & Gu, L. (2024). *Sentiment Analysis on Consumers' Coping with Shanghai's Covid-19 Outbreak and Lockdowns Using Weibo Data*. Project in progress.

2 ul Hasan, H. M. R., Liu, C., & **Xia, S.** (2024). *Consumer Shopping Value in Using Curated Fashion Clothing Subscription: The Case of Stitchfix.Com*. Manuscript in preparation.

1 **Xia, S.**, Zhang, Y., Cameron, B., & Liu, C. (2024). *A Thermochromic Hat for Young Children's Fever Detection*. Manuscript in preparation.

MULTI-STATE PROJECTS

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

TEACHING EXPERIENCE

Assistant Professor   *Fall 2019 –*
                                                                                  Present

Dept. of Textiles, Apparel Design and Merchandising

Louisiana State University, Baton Rouge, LA

Course Summary: flat pattern making, draping, computer-aided design, 3D simulation, product development, computer illustration, knitting, 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)

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 &*

Wilson College of Textiles, North Carolina State University, Raleigh, NC   *Spring 2017*

- 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 –*

TechShop, Raleigh, NC   *Spring 2013*

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

Lab Assistant, Apparel Lab   *Fall 2011 –*

Wilson College of Textiles, North Carolina State University, Raleigh, NC   *Spring 2013*

- 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

Honor Thesis Director (Undergraduate)   *2023 - present*
TAM, Louisiana State University, Baton Rouge, LA

- Student name: Simone Koskie
- Topic: Senior Design Collection

Committee Member (Doctoral)   *2023 - present*
TAM, Louisiana State University, Baton Rouge, LA

- Student name: Mo Zhou
- Research title: TBD

Committee Member (Doctoral)   *2023 - present*
TAM, Louisiana State University, Baton Rouge, LA

- Student name: Hope Passmore
- Research title: TBD

Committee Co-Chair (Doctoral)   *2023 - present*
TAM, Louisiana State University, Baton Rouge, LA

- Student name: Yanbo Zhang
- Research title: TBD

Committee Co-Chair (Doctoral)   *2023 - present*
TAM, Louisiana State University, Baton Rouge, LA

- Student name: Md Nazmul Haque
- Research title: TBD

Committee Member (Doctoral)   *2023 - present*
TAM, Louisiana State University, Baton Rouge, LA

- Student name: Khawlah Otayf
- Research title: Consumers' Wedding Gown Preference Influenced by Social Media Contents

Committee Member (Master)   *2024*
TAM, Louisiana State University, Baton Rouge, LA

- Student name: Lauren Lansdell
- Research title: Analysis of Fit Issues with Home Sewing Patterns and the Perceived Success of Pattern Alterations

Committee Co-Chair (Doctoral)   *2023*
TAM, Louisiana State University, Baton Rouge, LA

- Student name: Fatimah Hakeem
- Research title: The Ability of 3D Simulation Technology to Produce Complex Garments

Committee Co-Chair (Doctoral)   *2023*
TAM, Louisiana State University, Baton Rouge, LA

- Student name: Rakib Hasan

- Research title: Consumer Experience of Second-Hand Fashion Consumer

Committee Co-Chair (Doctoral) *2022*

TAM, Louisiana State University, Baton Rouge, LA
- 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 (Master Non-Thesis) *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 ASSOCIATIONS

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

PROFESSIONAL SERVICE EXPERIENCE

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

International Textile and Apparel Association	Undergraduate track reviewer, April 2024
International Textile and Apparel Association	Presider, 2023
International Textile and Apparel Association	Undergraduate track reviewer, May 2023
International Textile and Apparel Association	Student best paper review, May 2022
ACRA Annual Conference	Track chair, March 2022
International Textile and Apparel Association	Presider, 2021
International Textile and Apparel Association	Design exhibition juror, June 2020

External Service – Reviewer

International Journal of Clothing Science and Technology	Manuscript reviewer since 2024
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

External Service – Others

Collaborative Event on Wildland Firefighter PPE	Host, Scheduled for May 2024
ITAA Webinar Series about Design Scholarship	Panelist, March 2024

Exploring the Impact of AI in Apparel Research and Education - Experience and Insights

FUNDED PROJECTS

External Funds

National Science Foundation I-Corps – National Cohort *2024*

- Title: Functional Baby Textile Products for Fever Detection
- Technical Leader (PI): Sibei Xia
- Entrepreneurial Leader: Yanbo Zhang
- Co-Entrepreneurial Leader (Co-PI): Chuanlan Liu
- Industrial Mentor: Shannon Collins
- Amount: $50,000

Cotton Incorporated *2024*

- Title: Implementing Co-designing Cotton Knitted Products into an Undergraduate Course through Amazon Web Services (AWS)
- Principal Investigator: Sibei Xia
- Co-Principle Investigators: Chuanlan Liu and Chunmin Lang
- Amount: $7,482

National Science Foundation I-Corps – Southwest Cohort *2023*

- Title: Baby Fever Detection Hat
- Technical Leader (PI): Sibei Xia
- Entrepreneurial Leader: Yanbo Zhang
- Co-Entrepreneurial Leader (Co-PI): Chuanlan Liu
- Industrial Mentor: Cydney Severio
- Amount: Up to $5,000

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
- Credit Recipient: Sibei Xia
- 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
- 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
- Amount: Up to $3,000

Internal Funds

LSU Provost's Fund for Innovation in Research – Collaborator Support Fund *2024*
- Title: National Collaborative Research Event on Wildland Firefighting Personal Protective Clothing Improvement
- Principal Investigator: Sibei Xia
- Amount: $7,500

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 Therapeutic Cannabis Research *2023*
- 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 - 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

LSU Provost's Fund for Innovation in Research Grants - Emerging Research *2023*
- Title: Wearable Technology Development with Emerging Knitting Technology: A Pilot Study of Making Baby Thermal Monitor Hats
- Principal Investigator: Sibei Xia
- Amount: $9,998

SUBMITTED PROPOSALS

LA Board of Regents *2023*
- Title: Enhance Research and Small Business Entrepreneurship in Wearable Technology with the Support of a Thermal and Sweating Manikin
- Principal Investigator: Sibei Xia
- Co-principle Investigators: Chuanlan Liu and Bruce Cameron
- Amount: $200,000
- Status: Pending

Cotton Incorporated *2023*

- Title: Developing Comprehensive Understanding and Knowledge About Cotton Among College Students: A Focus on Technologies and Innovation
- Principal Investigator: Chuanlan Liu
- Co-principle Investigators: Sibei Xia, Chunmin Lang, and Bruce Cameron
- Amount: $49,898
- Status: Not Funded

Cotton Incorporated   *2023*

- Title: Global Textiles and Apparel Economics- Sourcing of Cotton for an Apparel Business
- Principal Investigator: Chunmin Lang
- Co-principle Investigators: Chuanlan Liu and Sibei Xia
- Amount: $9,972
- Status: Not Funded

LA Board of Regents   *2022*

- Title: Promoting Industrial Hemp Economy: Exploring the Markets for Hemp Fiber Textiles and Clothing
- Principal Investigator: Chuanlan Liu
- Co-principle Investigator: Sibei Xia
- Amount: $19,999
- Status: Not Funded

Cotton Incorporated   *2022*

- Title: Fashion Entrepreneurship in Action: New Course Development and Implementation
- Principal Investigator: Chuanlan Liu
- Co-principle 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-principle 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-principle 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-principle 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-principle Investigators: Chuanlan Liu, Casey Stannard, and Bruce Cameron
- Amount: $199,459
- Status: Not Funded

HONORS AND AWARDS

Best Track Paper in Big Data	*March 2022*
Proceedings of the 2022 ACRA Conference, New Orleans, LA	
Awarded by the American Collegiate Retailing Association	
Graduate Student Association Travel Assistance Awards	*Fall 2018*
Awarded by 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 Graduate Student Association, North Carolina State University, Raleigh, NC	
The Second Prize in the Advanced Level of Cotton First Competition	*November 2012*
Awarded by Wilson College of Textiles, North Carolina State University, Raleigh, NC	
Special Prize in Cotton Couture	*October 2011*
Awarded by 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 Red Cross Society, Donghua University, Shanghai, China	

STUDENTS AWARDS

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

CERTIFICATIONS

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

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 SKILLS

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)

LANGUAGES

Chinese: Native
English: Professional working proficiency
Japanese: Limited working proficiency