



UNIVERSITY OF LEEDS

# school *of* design digest

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# Introduction

As we conclude the first semester of the **2024/25 academic year**, we also close the chapter on a remarkable milestone: the [School of Design's](#) 150th anniversary. This moment invites us to reflect on the legacy and pioneering spirit that has defined our School for over a century while looking ahead to an exciting future. As part of this new chapter, we are thrilled to introduce the **School of Design Digest** – a newsletter celebrating our vibrant community's **achievements, creativity, and stories**.

This semester has been filled with significant milestones, including **groundbreaking research, exciting partnerships**, and the **accomplishments of our talented students and alumni**. We've proudly launched the Professional Academy for Creative Enterprise (PACE), refreshed our School of Design branding, and held a series of exhibitions and events that brought our rich heritage to life.

“ It is incredibly exciting to launch our first School of Design newsletter. There are so many wonderful things happening across the School, and it is difficult to include everything, but we hope that this newsletter will provide readers with a snapshot of our vibrant School community, and I invite you to join us in celebrating the achievements of all those who make the School of Design such a fantastic place to be.

**Dr Caroline Hemingray**  
Deputy Head of School



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# News Spotlight

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01



# Celebrating 150 Years of Heritage

This year, the School of Design has been celebrating its **150<sup>th</sup> anniversary**—a milestone honouring its **legacy**, impact, and **future**. From its origins in Leeds' 19th-century textile industry to its current role as a leader in design education, research, and industry collaboration, the school's journey has been one of growth, adaptation, and groundbreaking achievements. This celebratory year has included a range of **alumni and industry events**, culminating in the **150<sup>th</sup> Exhibition at Space@Design**, showcasing the school's remarkable history and contributions.

Professor Maria Lonsdale, Head of the School, remarks:

“ This milestone allows us to honour our heritage while embracing new opportunities, ensuring we remain at the forefront of design education and research for generations to come.

Discover the fascinating history that shaped the School of Design, from its foundation as the Department of Textile Industries in 1874 to its emergence as a hub for cutting-edge research and education. Explore the full article celebrating the [School of Design's 150<sup>th</sup> anniversary](#) and our special [150<sup>th</sup> celebration video](#).

01



# School of Design Unveils Rebrand

As part of the 150th celebration, the School of Design launched a refreshed brand identity that balances its legacy with a forward-looking vision. The new tagline, “**Legacy Inspired. Future Driven,**” captures the school’s commitment to blending **tradition** with **innovation**.

The rebrand features a clean, sophisticated wordmark combining traditional Serif with modern Sans Serif elements, reflecting the school’s enduring values and dedication to progress. The emblem—a weaving design—represents the fusion of **art, design, science, and technology** at the core of the school’s programs. Iconic green tones have been softened to symbolise a fresh era, adding an earthy, natural quality to the look.

Stephanie Sciberras, Senior Art Director, described the rebrand as

“ A timeless canvas crafted to present the school’s dynamic future.

As the academic year unfolds, the School of Design invites its community to embrace this new identity. Discover the full story behind this transformative rebrand in the [article here](#).

01

PACE

Professor Maria Lonsdale  
Director

T +44 (0) 113 343 3708

[lonsdale@pace.schoolofdesign.com](mailto:lonsdale@pace.schoolofdesign.com)

[schoolofdesign.com](http://schoolofdesign.com)

# PACE

## The Professional Academy for Creative Enterprise launches

In **October 2024**, the School of Design proudly launched the **Professional Academy for Creative Enterprise (PACE)**, a pioneering initiative designed to bridge the gap between industry and academia. Building on a legacy of industry collaboration since 1874, PACE offers **professional education, consulting, and services** tailored for global professionals and organisations.

PACE provides flexible **online courses** and immersive **on-site programmes** covering fields like textiles, fashion, design, marketing, and colour. Each course combines leading **academic research** with **practical insights**, empowering participants with relevant skills and a certificate upon completion.

Beyond education, PACE offers production, design, and consultancy services, assisting businesses in content creation, industry research, and testing. Professor Maria Lonsdale, Director of PACE, remarked that:

“ PACE seeks to equip professionals with the concrete knowledge and tools they need to excel and make a tangible contribution to industry and society on a global scale.

For more information on PACE's offerings, visit the [PACE website](#) and discover how it can support your professional development or business goals.

01



# INDITEX Partnership

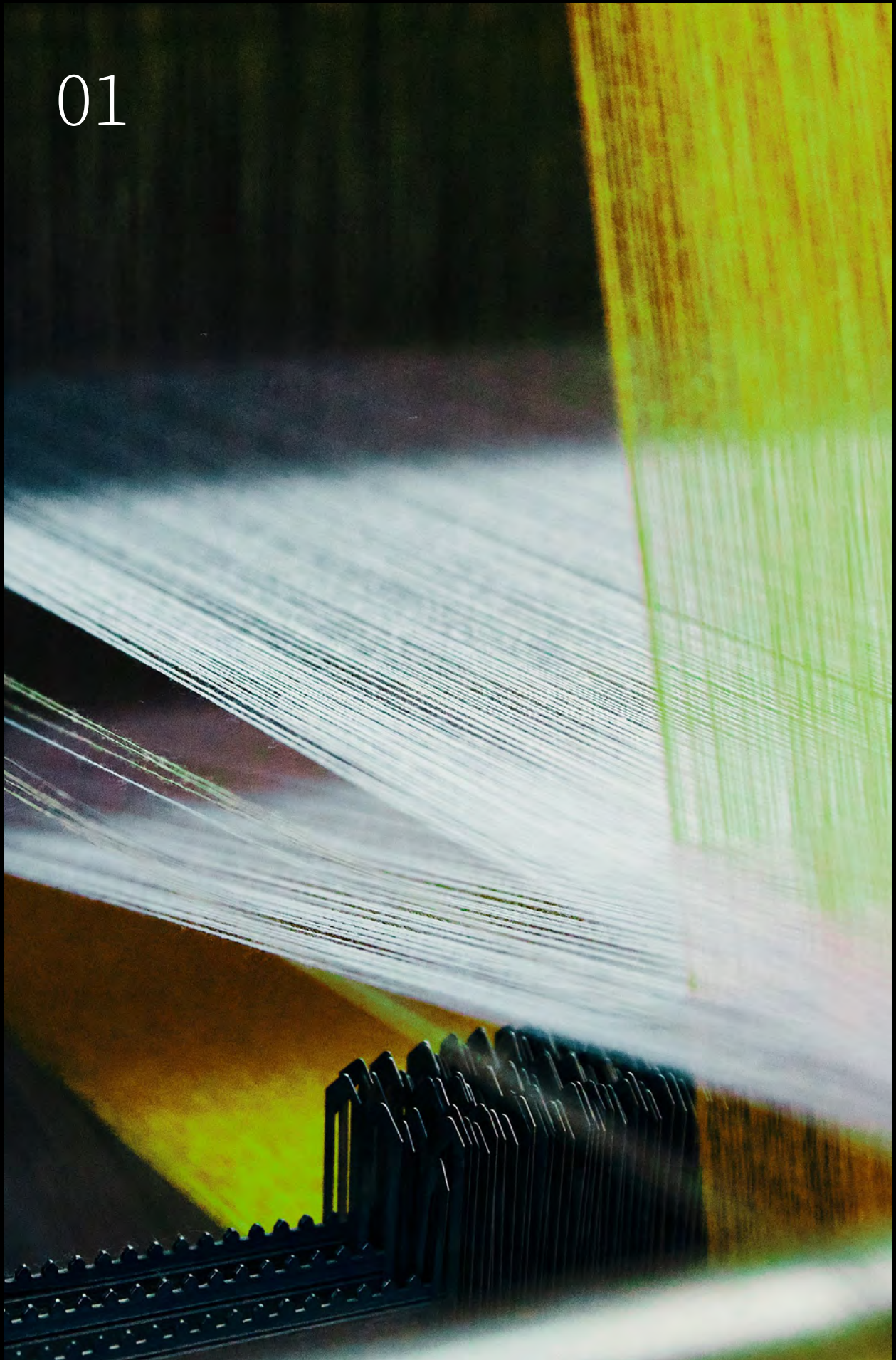
## Empowering sustainability in the Fashion Industry

The School of Design and [PACE](#) have joined forces with **INDITEX**, the global fashion giant behind Zara and Pull&Bear, to revolutionise **sustainability education** in the fashion industry. This groundbreaking collaboration led to creating the **Sustainable Fashion School**, a bespoke program designed to educate over 2000 Inditex employees on sustainable textile manufacturing. Combining **academic expertise** with real-world **industry practices**, the online course equips participants with the tools to make informed, eco-conscious decisions across design, production, and product lifecycle stages. Inspired by the course's success, the School of Design launched the Professional Academy for Creative Enterprise (PACE) to expand the program's reach.

Together, Inditex and the University of Leeds are equipping fashion professionals with the knowledge and tools to drive meaningful change and shape a more sustainable future for the industry. Discover the full story [here](#).



01



# Convening Network Plus

## Driving Change Through Sustainable Practices

After being funded to manage a cross-disciplinary multimillion-pound project by UKRI, this year, [LITAC](#) convened the [Programme Coordination Team \(PCT\)](#) of the Network Plus in Circular Fashion and Textiles.

The **Network Plus**, part of the £15 million UKRI Circular Fashion Programme, combines three sub-networks working collaboratively to advance sustainable and responsible practices in the fashion and textile industry. Led by LITAC director Professor Stephen Russell, the PCT ensures these sub-networks operate with one voice, delivering streamlined and complementary work.

LITAC also leads the [Back to Baselines in Circular Fashion and Textiles \(B2B\)](#) sub-network, building a data-driven picture of the current sustainability position of the industry. Following the March launch of its **£700k Sustainable Transition Fund**, two additional funding calls this semester have resulted in **15 innovative short-term projects** involving academic-industry partnerships generating new evidence, insights, and solutions.

This semester, the PCT has been planning the first Annual Research Meeting for Network Plus, scheduled for 14th January at the University of Exeter. Plans are underway to launch a **Knowledge and Information Portal** early next year, an online hub sharing programme outcomes and resources for sustainability in fashion and textiles.

# Success Stories

02



# Saba Siddiqui

## Winner of FUAM 2024

Recent **BA Art & Design** graduate **Saba Siddiqui** won the **People's Choice Award** at the **12<sup>th</sup> annual Friends of University Art and Music (FUAM) Graduate Art Prize 2024**, with her Degree Show project capturing widespread admiration from visitors and the University of Leeds community.

The **FUAM Prize**, a highlight of the academic calendar, celebrates exceptional creative talent among final-year Art and Design and Fine Art students. This year's exhibition featured impressive projects and was judged by **Georgia Taylor Aguilar** of ACAVA, **Chris Warrington** from the University of Leeds, and **Sandra Whyles** from Chapeltown Arts. Reflecting on her win, Siddiqui expressed heartfelt gratitude to the gallery staff, her mentors, and the technicians at the School of Design who supported her throughout her project's creation.

Her award marks a fitting conclusion to her university experience and her role as a **gallery intern** at **Leeds University Galleries**, as she now looks forward to the next chapter of her artistic career.



02

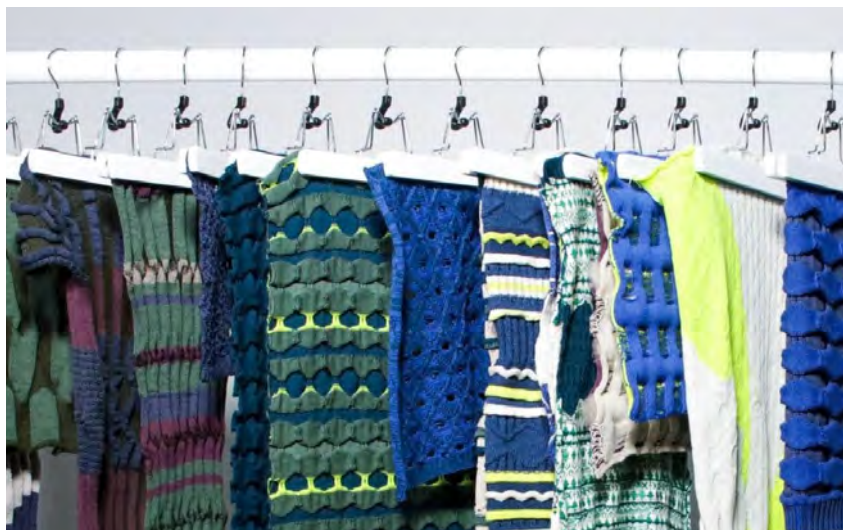


# Laura Sillitoe // Olivia Walster

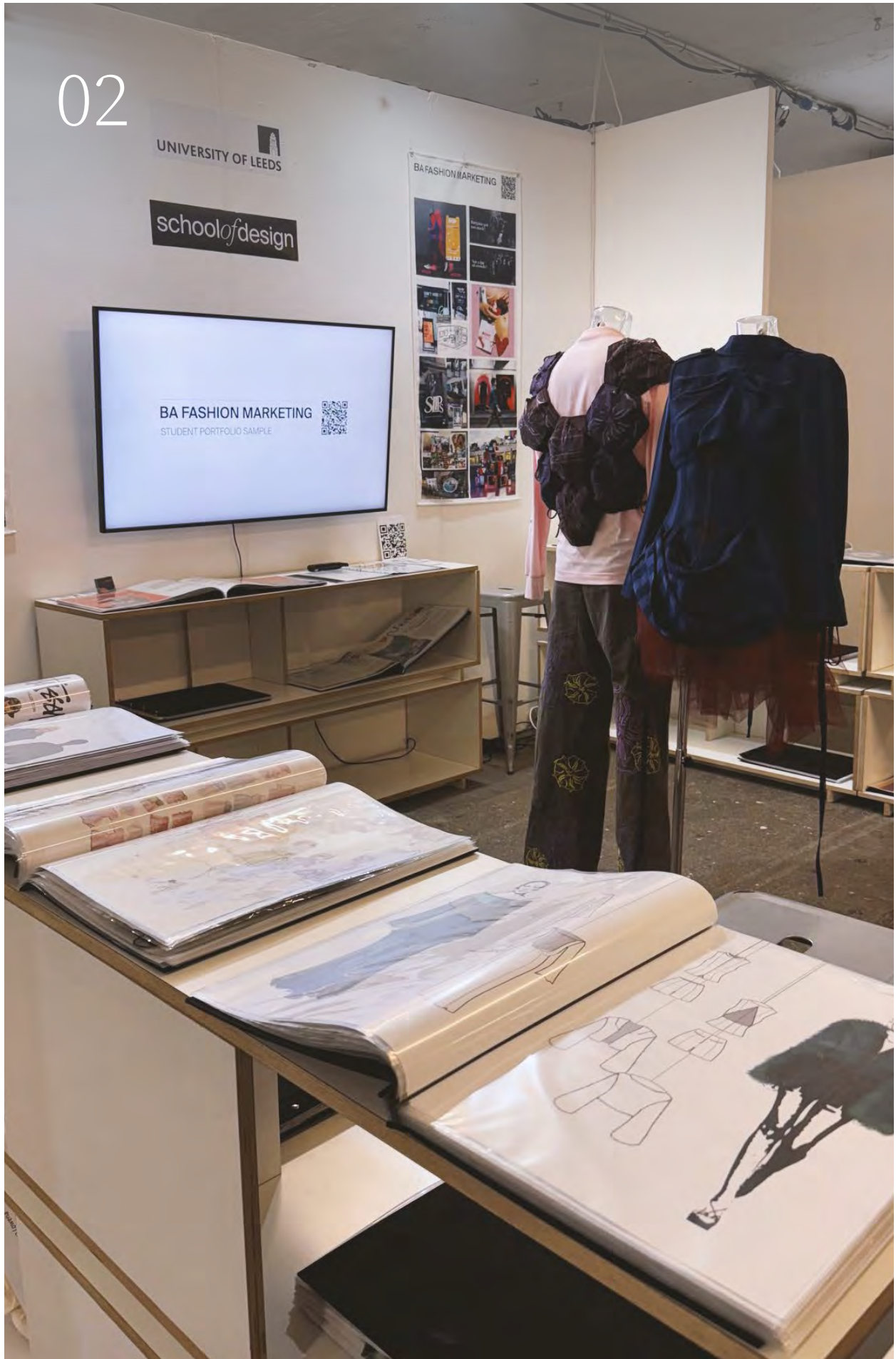
## Students Participate in the Loro Piana Knit Award

Recent graduates **Laura Sillitoe** and **Olivia Walster** from the **BA Hons Textiles Design** program proudly represented the University of Leeds at the renewed Loro Piana Knit Design Award in Milan, standing out as one of the only eight teams worldwide to compete.

Their innovative collection of knitted fabrics, made from luxurious merino and cashmere yarns, took inspiration from the art of **Kintsugi** to emphasise sustainability and circularity. With features like a QR code system and raw cashmere fibre, their designs promote **garment longevity** and deepen the **connection between wearers and their garments**. Their impressive work has garnered international recognition, with features in Vanity Fair Italia and L'Espresso Magazine, marking a significant achievement for the School of Design and highlighting the creative talent of its graduates.



02



# Graduate Fashion Week

This June, our final year **BA Fashion Design** and **Fashion Marketing** students showcased their work at [Graduate Fashion Week 2024 \(GFW\)](#), held at London's Truman Brewery. The four-day event offered invaluable opportunities for students to present their portfolios, **network with industry leaders**, participate in **competitions** and attend insightful **talks on employability and inclusivity**.

The week highlighted our student's exceptional talent, with **Alfie Shield's** selection for the **Sustainability Exhibition** and **14 students** nominated for prestigious awards across design and marketing categories. With over **20,000 attendees** and supported by **28 global fashion brands**, GFW celebrated creativity and innovation; these achievements reaffirm our commitment to preparing students for impactful careers in a rapidly evolving industry.

## Fashion Design nominations

### Childrenswear Award:

Eivissa Watson  
Emily Knowles

### Next Trend Forecasting Award:

Grace Kuk  
Cecilia Castell

### Zandra Rhodes Fashion Textiles Award:

Milly Kraushaar

### Sportswear and Leisurewear Award (supported by Gymshark):

Emily Browne

### Culture and Heritage Award (Design):

India Sangar

## Fashion Marketing nominations

### Snag Considered Award:

Molly Woodhouse

### Culture and Heritage Award (Non-Design):

Wei Li

### Digital Fashion Award:

Ria Jasmine Ladva

### Fashion Communication Portfolio Award:

Madelaine McGovern

### New Business Award:

Lucie Smyth  
Jasmine Lobo

### Snag Inclusive Fashion Award:

Mia Wallis

# Student Education



# Year in Industry

This September, **66 students** from the School of Design began their **year in industry placements**, gaining valuable work experience and expanding their professional networks. This optional year allows students to apply what they have learned, explore different industry roles, and enhance their skills before graduation. Placements include top companies such as **Adobe, L'Oréal, Sony, Barbour, French Connection, Porsche Retail Group, and The Walt Disney Company**, covering all BA courses.

BA Fashion Design Innovation student Eleanor Taylor reflects on her placement at **ŚILPA** clothing in Greater Manchester:

“ Working at **ŚILPA** clothing, based in Greater Manchester, as a fashion studio intern has been an amazing opportunity for my year in industry. From skill development and responsibility within pattern cutting, designing and sampling, I've also had the pleasure to work on some of the marketing at such a unique luxury fashion brand and assist in the styling and organisational process at the company's collection photoshoot releases. With such incredible opportunities, I am thoroughly enjoying my placement year and will continue to as I grow as an individual and a designer, prior to my final year at Leeds.

03



# International Student Steering Committee Event

The **International Student Steering Committee (ISSC)** is a student-led School committee that brings students across programmes together to celebrate our **diverse, international student community**. The students, with support from staff, organise activities and events throughout the year.

In **December 2024**, the **ISSC** organised their first event, “Oh deer, together for a Magical Holiday”. The Committee invited home and international students and staff from across the School to connect, celebrate, and enjoy the festive time of year together in the inclusive event. Students organised activities, including exchanging holiday cards, making winter decorations, and playing games. The School’s Director of International Activities, Andrea Thoma, reflects,

“ It is wonderful to see the commitment and enthusiasm of the committee members to develop events which enhance and celebrate a sense of belonging to the School of Design student community.

Of the event, the ISSC committee members said:

“ It was a great event! Everyone was very enthusiastic and friendly and we had a really good time organising it. We all really enjoyed working together.

# Featured Alumni

04



# Molly Turner

## BA Fashion Marketing

Following her hard work throughout her degree, **Molly Turner** graduated with a [BA in Fashion Marketing](#) in 2023 and now works as a **Retail Media Executive (Beauty)** at **John Lewis Partnership**.

“I’m now part of the John Lewis Beauty Marketing Team, working in the fast-growing sector of Retail Media - a marketing field I had not even heard of before graduating! Retail Media refers to supplier-funded advertising opportunities across a retailer’s channels. For example, brands like Chanel or Apple will pay John Lewis for visibility on our platforms - whether it’s a window display in our flagship Oxford Street store, a banner on our homepage, or a series of social media posts. By monetising these already existing touchpoints, Retail Media is a really great way to drive profitability in the currently struggling retail industry.

My favourite part of my role is working with global luxury beauty brands such as Chanel, Dior, Estee Lauder, and L’Oreal. Key responsibilities include ensuring the successful activation of supplier-funded marketing initiatives, working on wider campaigns, and liaising with brand partners. It’s a role that really appeases both my creative and analytical sides which is why I absolutely love it.

For current students, I highly encourage exploring Retail Media as a career path. It is a sector that is set to only keep evolving, with major retailers including John Lewis, ASOS, Boots, and THG all setting up dedicated Retail Media teams.

And please remember not to give up on your job search. I landed this role after over 100 applications and about 20 final stage interviews. I can safely say that out of all of the jobs I applied for, I have ended up in the role that was the best fit for me. You will land your dream job!”

04



# Lucy Clanfield

## BA Graphic and Communication Design

Lucy Clanfield, a graduate of the [BA Graphic and Communication Design](#) course, has quickly made her mark as a talented designer. Securing a competitive **graduate internship** with the **Professional Academy for Creative Enterprise (PACE)** in the School of Design immediately after completing her studies, Lucy quickly transitioned to a **permanent Graphic and Digital Designer** role within just six months. At PACE, she has demonstrated her creative expertise by contributing to high-profile projects and creating impactful marketing and social media visuals and course assets.

“My experience as a student on the Graphic and Communication Design course was incredibly positive. The combination of top-tier teaching, dedicated support from academics, and excellent facilities empowered me to grow into a confident and skilled designer.

Studying at the School of Design has offered the ideal blend of research-driven practice and hands-on projects, enabling me to integrate critical thinking and evidence-based research into my creative work. My final year was particularly rewarding, thanks to the exceptional support from my dissertation supervisor, Dr Arjun Khara, Deputy Head of School, who made the experience both positive and enriching.

The course also provided numerous opportunities to build industry connections, including the option to take a year in industry, enter competitions and apply for the 6-month internship at PACE within the School of Design. These experiences propelled my career forward and enabled me to secure employment before graduating. I have now been offered an ongoing position on the PACE team as a graphic and digital designer. Wherever my career takes me, I know my experience at the School of Design has equipped me with essential skills and qualities to have a successful career.”

04



# Charlotte Parry – de Boltz

## BA Fashion Marketing

**Charlotte Parry – de Boltz** graduated from [BA Fashion Marketing](#) in 2023. Following the success of her undergraduate studies, Charlotte is now studying **MA Fashion Enterprise and Society**. Reflecting on her past and current studies, Charlotte says:

“I am currently studying for my MA in Fashion Enterprise and Society, after graduating from my undergraduate degree in Fashion Marketing in 2023. I thoroughly enjoyed my time studying Fashion Marketing at Leeds because it taught me so many valuable skills and opened me up to new opportunities. The course allowed me to undertake academic research and apply critical thinking to creative assignments, which for me, was the perfect balance. When I graduated, I took some time out to decide what I wanted to do with my future, and in the meantime got a job working in a jewellery shop in Leeds. After a year, I realised that I really wanted to get back into education to pursue a career in research and academia, which led me to applying for my masters.

The Fashion Enterprise and Society course was a perfect way to follow on from my undergraduate degree, as I am expanding on my previously learnt skills and applying them to different situations, and in much more depth. As the course is also in collaboration with the business school, I have been challenged with modules that are completely new to me, which I have really enjoyed. The resources and support at the School of Design are incredible, and I have valued every relationship I have built in my time here. Not only is the university amazing, but Leeds is a wonderful city with so much to offer for students and professionals. I plan to stay here as I embark on my future career.”

04



# Zhihang Liu

## MA Fashion Enterprise and Society

Zhihang Liu graduated from the [MA Fashion Enterprise and Society](#) (FES) program in 2023. A hardworking and passionate student, Zhihang excelled in the **internationalisation of the fashion industry** and entrepreneurial strategies focused on sustainability. This passion led to his current role in **Operations and Management at CNNP Rich Energy Co. Ltd.**, a company dedicated to **clean energy development**.

“My role involves business management and strategic planning. I am pleased to share that the company strongly upholds its values of responsibility towards shareholders, employees, society, and the environment, and it consistently contributes to the energy transition both in China and globally.

My time at the University of Leeds taught me how to systematically explore and acquire professional knowledge in new fields, as well as how to understand and analyse industry trends. Dr Caroline Hemingray, as the Programme Leader of MA FES, her expertise and dedication were evident throughout the curriculum, ensuring we had access to top-notch learning resources and a well-structured syllabus that met our academic and professional needs.

In the final stages of my degree, Dr Hye-Won Lim provided professional and patient guidance that helped me to complete my dissertation, offering valuable and practical suggestions for which I am deeply grateful. The curriculum design of MA FES has excellently combined the teaching resources of the School of Design and the Business School. It equips us to solve complex issues with interdisciplinary methods, breaks the limits of traditional disciplines, and brings new perspectives and directions. I would like to express my sincere appreciation to all the MA FES teaching team and for the thoughtfully designed and organised courses, which have been incredibly beneficial to us, we're always well-prepared for further studies or job hunting in the future.”

04



# Xinyue Zhang

## MA Design

Xinyue Zhang, a distinguished alumni of the School of Design, completed her [MA in Design](#) in 2022/23, showcasing an exceptional passion for exploring how design can **address complex human challenges**.

During the programme, she honed her **research** and critical thinking skills, aligning her academic ambitions with her desire to make **meaningful contributions to society**. For her dissertation, Xinyue explored **AI's potential** in predicting adherence behaviour among **early-stage Alzheimer's patients**. This innovative work earned her a distinction and laid the groundwork for her academic and professional growth.

“ The MA Design program enhanced my design thinking and allowed me to explore AI applications in health design, such as improving medication management for Alzheimer's patients. This experience deepened my understanding of service design and strengthened my belief in using design to improve lives.”

After graduation, Xinyue collaborated with her supervisor to **publish her research** and presented a position paper at the **International Conference on Applied Human Factors and Ergonomics** in France in July 2024, where it was featured in the conference proceedings.

In 2024, Xinyue earned a prestigious **PhD scholarship** at **Loughborough University** and is working on a second publication. Her journey exemplifies how the MA Design program empowers students to achieve their goals and excel. Her journey inspires future designers to harness their creativity and drive to make meaningful contributions to society.

# On Display

05

05



# 2024 Degree Show

## Final Year Exhibition

Every year, the **School of Design** hosts a show to celebrate the remarkable achievements of our **final-year students**. The theme of each show is consonant with the manifold experiences and events (local and global) that inspire our students as they prepare to cross new horizons. 2024's theme was an **Invitation to Wonder** — not just at the works on display but also about our students' unique perspectives on a rapidly changing world and their roles as leaders, thinkers, and makers of society.

Design has always been an **interdisciplinary pursuit** aimed at solving societal issues, and, as such, our field would not exist without first identifying the challenges all around us. From making legal documents easier to read to revealing new forms of sustainable fashion to raising awareness of climate concerns through immersive technologies, what our students achieve at the School of Design has far-reaching implications for everyone, everywhere. The works featured in **DS24** were carefully chosen by the students themselves to inspire audiences on their own journeys of wonder. These creations are a testament to the transformative power of design and its ability to contribute to a world made better through thoughtful innovation and creative problem-solving. The show was a resounding success, attracting high attendance at the opening event and receiving widespread acclaim from visitors.

05



# An Aleph as a Euclidian Space

## International Exhibition

Dr **Kenneth Feinstein**, Associate Professor of Art & Design, showcased his work at the **2<sup>nd</sup> Guangxi Experimental Art Biennale 2024 in China**, an event exploring the intersection of tradition and technology in art. Hosted by the Guilin Art Museum and Guangxi Normal University, the Biennale featured over **100 experimental works**, including AI-assisted paintings, video installations, and sound art. The exhibition emphasised innovation in media art, showing how **new techniques and materials** are transforming artistic practices globally.

Dr Feinstein's Installation, "An Aleph as a Euclidian Space," captivated audiences with its unique perspective on urbanism. Through a narrow slit in a wall, viewers encountered a video loop of apartment blocks from cities like Shanghai and Mexico City. Inspired by Jorge Luis Borges 'The Aleph, the piece invited reflection on hidden perspectives and the tension between surveillance and human experience. Blending urban imagery with themes of curiosity and unease.

The Biennale's mandate is to help foster new art forms and techniques. Presented in the **Guilin Museum**, the exhibition focuses on experimental art, not the art market. It focuses on innovation in the arts and how new materials and technologies can interact with traditional methods in a new language of the arts.

# space@design

The School of Design's in-house exhibition space features diverse free exhibitions annually.

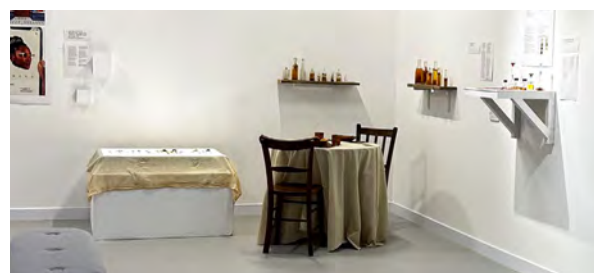
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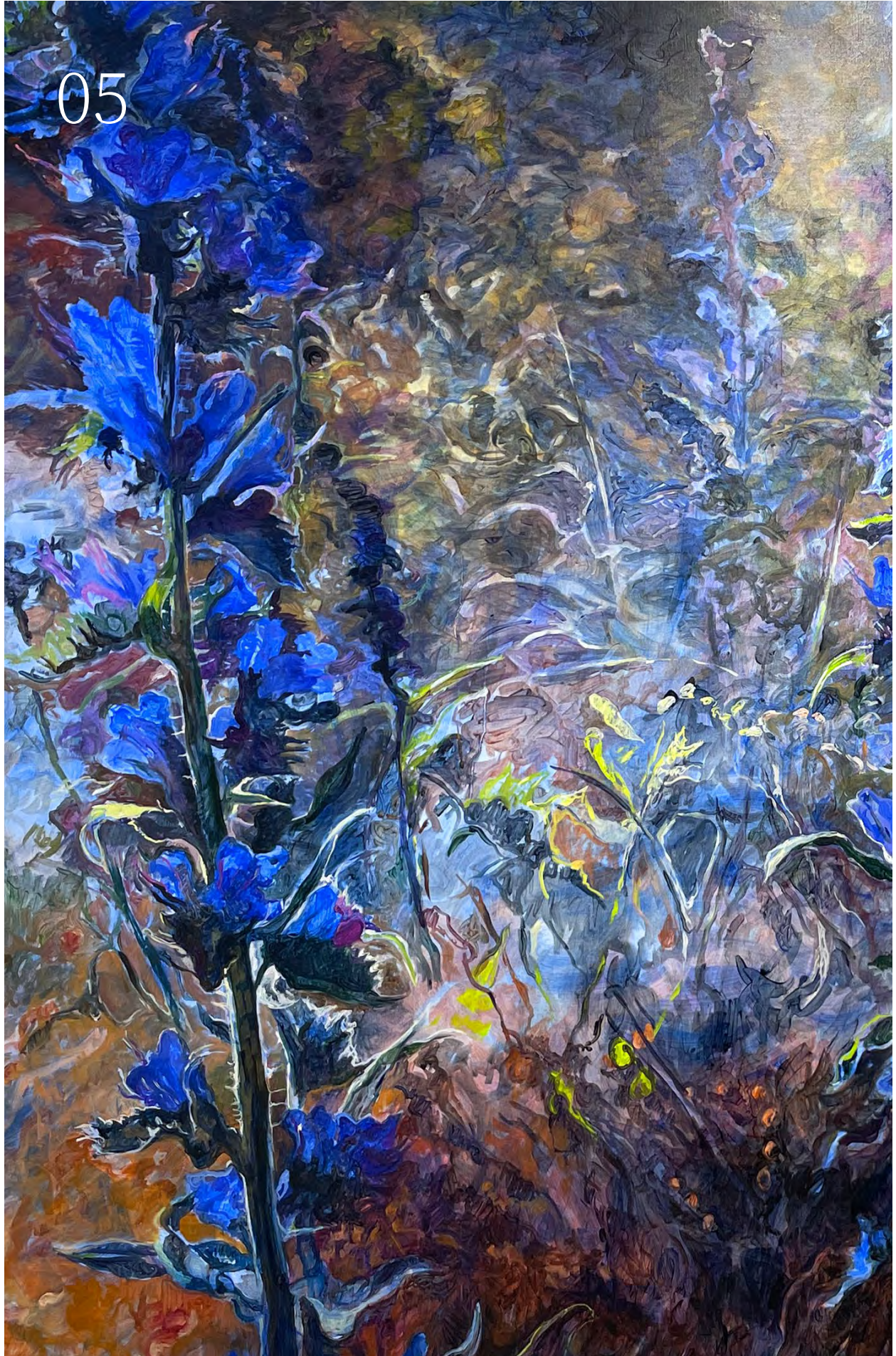


# A Thread Through Time

## Exhibition

**A Thread Through Time** exhibition looked back on 150 years of rich history, examining the **School of Design's** past and present and exploring its future. Featuring newly digitised images, original video content, and outstanding student work, the exhibition offered a unique glimpse into the school's achievements over the past century and a half. This vibrant showcase invited visitors to **explore the school's legacy**, looking ahead to its future.

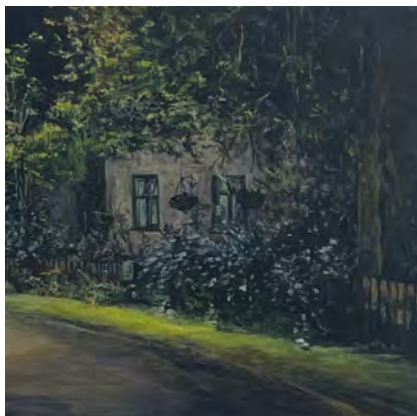




# Judith Tucker

## Exhibition

This semester, the **School of Design** honoured the artistic legacy of our late colleague **Judith Tucker (1960–2023)** with a commemorative exhibition showcasing her influential works from 2003 to 2023, held in **Space@Design** and the gallery she founded. The exhibition curated by Dr Helen Clarke, celebrated Judith's profound impact on our community, with a special evening event on November 15 featuring poetry readings by her partner **Harriet Tarlo**. Visitors were invited to explore Judith's evocative pieces, including **Dark Marsh: Evening Thrift (2020)**, and reflect on her enduring contributions to art and the School of Design.



# Guest Insights

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06

# Fashion Forum

Early Career Women in Fashion



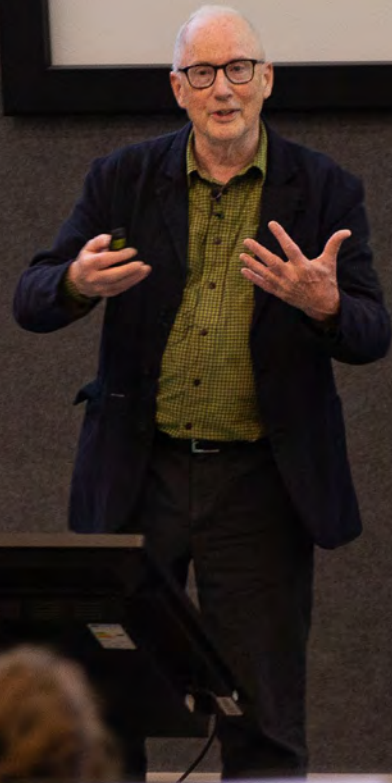
# Fashion Forum

## Alumni Leading the Way in Early Career Success

The recent **Fashion Forum** celebrated “**Early Career Women in Fashion,**” featuring four School of Design alumni: **Isla Scott (ASOS)**, **Rachel Kendall (NEXT)**, **Emily Rathbone (Beauty Pie)**, and **Emma Voisard-Morley (LVMH)**. Each shared career highlights and insights into their roles with top brands, from Rachel’s design work at **NEXT** to Emma’s retail activations with **LVMH**. This event showcased the impact and versatility of Leeds graduates within the fashion industry.



06



# Rob Waller

## Exploring Patterns in User-Centered Design

Honorary Professor **Rob Waller**, recently appointed to the **School of Design** and **PACE**, delivered an insightful talk on the **power of design patterns**—a tool for keeping design focused on user needs. Waller discussed how design patterns clarify the reasoning behind effective designs, moving clients beyond surface aesthetics to understand the deeper logic driving each decision. His presentation featured diverse projects that used pattern libraries, from game instructions to legal contracts, showcasing how **structured design approaches** can enhance **functionality** and **usability** across various contexts.



06



# Haoran Liao

## Insights into Design and AI

This semester, **MA Design** students at the **School of Design** has the privilege of attending an insightful guest lecture by **Haoran Liao**, whose experience at top companies like **THG** and **Amazon** brought valuable industry perspectives. Haoran's talk explored the **evolving role of design**, particularly how AI is transforming design careers and its use as a strategic tool in the industry.



# Research Highlights

07



# Durability

## Challenging Fashion's Price-Durability Assumptions with Dr Mark Taylor, Kate Morris and Dr Yue Guo

The **School of Design** and LITAC research, **Worn Out: Is Price an Accurate Indicator for Clothing Durability?**, has challenged fashion industry standards by debunking the myth that higher prices guarantee better durability. In partnership with **Hubbub** and **Primark**, the study tested **65 garments** across various price ranges and found that affordable jeans and t-shirts often matched or surpassed pricier alternatives in durability.

These results have influenced **Primark's** "Primark Cares" initiative, raising durability standards to reduce environmental impact. Featured by **Forbes** and **BBC News**, the study highlights the **School of Design's** role in driving meaningful change toward more sustainable fashion practices. Read more about the [research and its impact](#).



07



# TECNO

## Advancing Inclusivity in Mobile Photography with Professor Kaida Xiao

In partnership with **TECNO**, **Professor Kaida Xiao** has pioneered the **Multi-Skin Tone Colour Card** – a breakthrough tool to improve how smartphone cameras capture **diverse skin tones**. Unveiled at the **2024 Mobile World Congress** in Barcelona, this innovation addresses longstanding challenges in mobile photography by utilising advanced algorithms and unbiased data to represent all skin tones accurately, regardless of lighting conditions.

The project, developed in collaboration with **TECNO** and the **Leeds Institute of Textile and Colour (LITAC)**, aims to enhance inclusivity in mobile technology and is set to expand to emerging markets like Saudi Arabia. Professor Xiao's expertise in colour science is also shaping PACE's academic offerings, highlighting the role of research-driven innovation in fostering meaningful societal change. Read more about this research [here](#).



07



# Robotic Adaptor System

## for On-demand Singular Order 3D Weaving with Dr Lindsey Taylor

The **LITAC Development Project** is revolutionising **UK weaving** by introducing a cutting-edge robotic adaptor system for conventional looms. Traditionally, weaving machines create flat, 2D fabrics, requiring manual manipulation to achieve **3D woven forms**. This project overcomes wrap-end capacity and density limitations by enabling precise, **localised warp-end control** during the weaving process.

The adaptable retrofit system allows the seamless creation of **3D woven products** directly on the loom, enhancing fabric shaping, drape, and fit. By embedding innovation into manufacturing, the project opens new possibilities for **ready-to-wear fashion, technical textiles, and composite materials**, showcasing the **School of Design's** commitment to sustainability and forward-thinking solutions.

07



# Online Group Learning

## New Insights into Online Group Learning Challenges for Design Disciplines

MA Design graduate **Lei Mao** and Lecturer in Digital Innovation Design **Francisco Queiroz**, have jointly published "[Online education in design disciplines: factors influencing the interactive experience of group learning](#)" in the **International Journal of Technology** and **Design Education**, based on Lei's Master's dissertation. The publication highlights the unique challenges **design disciplines** face in adapting to **online group learning**.

The findings emphasise four key factors shaping the **interactive experience** in online group learning: group size, platform interface layout, teacher management style, and group conflict dynamics. These aspects significantly influenced **engagement** and **collaboration**, with participants offering specific questions and nuanced suggestions to enhance **online learning environments**.

# Staff Publications

2024 publications, ranging from artificial intelligence to information design, colour, textiles and healthcare, include:

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**Al-Samarraie H et al.**

This study explores the themes and sentiments of online learners regarding the use of generative AI in higher education.

Al-Samarraie H., Sarsam S.M., Ibrahim A.A., Chatterjee, A. and Swinnerton, B.J. 2024. [Gender perceptions of generative AI in high education](#). *Journal of Applied Research in Higher. Education*.

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**Chapman, S.J. et al.**

This report assesses the feasibility of 'Recover Together' intervention to improve colorectal cancer surgery recovery.

Chapman, S.J., Ahmed, S., Cave, L., Morton, K., Tiernan, J.P., Limbert, S., Naylor, M., Vargas-Palacios, A., Lonsdale, M.D. S., Davies, C.L., Rousseau, N., Stocken, D.D. and Jayne, D.G. 2024. [Improving recovery after bowel cancer surgery: mixed methods feasibility study of a co-produced information intervention \(Recover Together\)](#). *Colorectal Disease*. 00: 1–9

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**Chu, R., Tang, T. and Hetherington, M.M.**

This study explores packing features like pre-portioned or reusable designs can aid portion control, through health cues on packaging and smart packaging design could promote healthier choices.

Chu, R., Tang, T. and Hetherington, M.M. 2024. [The impact of packaging attributes on portion decisions: Consumer values are important](#). *Nutrition Bulletin*, 49(3), pp.314-326.

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**Glasper, M.J et al.**

This study found that mechanical recycling minimally affects wool and cashmere tensile strength but reduces fibre length, influenced by initial length and process settings, and introduces a recycling Index to estimate closed-loop recycling potential.

Glasper, M.J., Picerno, G., Tausif, M. and Russell, S.J. 2024. [Closed loop mechanical recyclability of post-consumer waste wool fabrics based on fibre length retention](#). *Cleaner Engineering and Technology*. 22, Article 100796.

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**Hein, S. and Westland, S**

This study found that metamerism between natural teeth and zirconia restorations is weak, with both types falling within clinically acceptable colour difference in various lighting conditions.

Hein, S. and Westland, S. 2024. [Illuminant metamerism between natural teeth and zirconia restorations evaluated with a chromatic adaptation transform](#). *The Journal of Prosthetic Dentistry*. 132(5), pp.1020-1027.

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**Hein, S. et al.**

This multicentre study optimised three colour difference equations to improve the visual-instrumental agreement in artificial teeth colour measurements, significantly enhancing agreement.

Hein, S., Saleh, O., Li, C., Nold, J. and Westland, S. 2024. [Bridging instrumental and visual perception with improved color difference equations: A multi-center study](#). *Dental Materials*. 40(10), pp.1497-1506.

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**Penev, K. et al.**

The study explores the energy efficiency of intelligent algorithms in sustainable computing, examining heuristic methods for search and optimisation, the impact of cognitive concepts, and factors influencing energy consumption.

Penev, K., Gegov, A., Isiaq, O. and Jafari, R. 2024. [Energy Efficiency Evaluation of Artificial Intelligence Algorithms](#). *Electronics* (Basel). **13**(19), Article 3836.

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**Sanders, N.E. et al.**

This study analysed 77 robot-related accidents from 2015-2022, revealing that stationary robots caused most injuries, the findings emphasise the need for better safety measures like guards, collision avoidance, and improved injury reporting.

Sanders, N.E., Şener, E., Chen, K.B. 2024. [Robot-related injuries in the workplace: An analysis of OSHA Severe Injury Reports](#). *Applied Ergonomics*. 121, pp.104324, Article 104324.

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**Shi, Y. et al.**

This study demonstrates the use of 3D weaving technology to create a braprortpe in a single weaving cycle, elimination the need for additional assembly or sewing, thus streamlining the garment-making process.

Shi, Y., Taylor, L.W., Kulesa, A., Cheung, V. and Sayem, A.S.M. 2024. [Re-engineer apparel manufacturing processes with 3D weaving technology for efficient single-step garment production](#). *iScience*. **27**(8), Article 110315.

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**Westland, S. et al.**

This study compares two methods for predicting visual similarity between color palettes, finding that a novel palette difference metric based on the Hungarian algorithm outperforms the minimum colour difference model.

Westland, S., Finlayson, G., Lai, P., Pan, Q., Yang, J. and Chen, Y. 2024. [A computational method for predicting color palette discriminability.](#) *Color Research and Application*. 49(5), pp.465-473.

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**Yu, H. et al.**

This study develops a method to determine bacterial cellulose molecular weight by measuring the viscosity of copper (II) ethylenediamine solutions, establishing BC-specific constants and showing a relationship between molecular weight and rheological properties.

Yu, H., Lanot, A. and Mao, N. 2024. [The relationship between molecular weight of bacterial cellulose and the viscosity of its copper \(II\) ethylenediamine solutions.](#) *Cellulose (London)*. 31(13), pp.7973-7992.

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**Yuan, J. et al.**

This review explores anti-counterfeiting methods for 3D printed products, suggesting material-responsive strategies and 3D digital information, along with research on optical, spectral, and deformation properties, digital watermarks, and radio-frequency tagging.

Yuan, J., Zhou, Y., Chen, G., Xiao, K., Lu, J., 2024. [Materials vs digits: A review of embedded anti-counterfeiting fingerprints in three-dimensional printing.](#) *Materials Science & Engineering: R: Reports*. 160, Article 100836

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**Zhang, R. et al.**

This study investigates how crosslinked atelocollagen membranes with UV-cured networks improve mechanical properties and suture retention in guided bone regeneration, with sequential functionalisation offering greater stiffness and reduced swelling.

Zhang, R., Brooker, C., Whitehouse, L.L.E., Thomson, N.H., Wood, D. and Tronci, G. 2024. [Mechanical and suture-holding properties of a UV-cured atelocollagen membrane with varied crosslinked architecture.](#) *Biomedical Materials (Bristol)*. **19**(6).

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**Zhang, X. et al.**

This review looks at AI applications in China's Alzheimer's pharmaceutical management, focusing on medication adherence, reminders, and drug interaction detection, while highlighting research gaps and the need for future studies to improve outcomes and address ethical challenges.

Zhang, X., Elmansy, R. and Liu, J. 2024. [Artificial Intelligence in Medication Management for Alzheimer's Patients in China.](#) *AHFE Open Access*, vol 130