



Brooke Roberts-Islam

Co-Director: Brooke Roberts Innovation Agency (BRIA)

Background

My background: 10+ years as NHS radiographer

Studied fashion design and moved into digital knitting in 2005

Launched fashion brand translating medical scans into digital knitwear in 2009

TED Talk 2013 “How I combine Radiography and Fashion Design”

Contributing writer on fashion-tech and sustainability for Huffington Post UK since 2015

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TED Live
Athens
Youth Forward



Brooke Roberts
at The Allen Institute for Brain Science

TEDMED Live 2013

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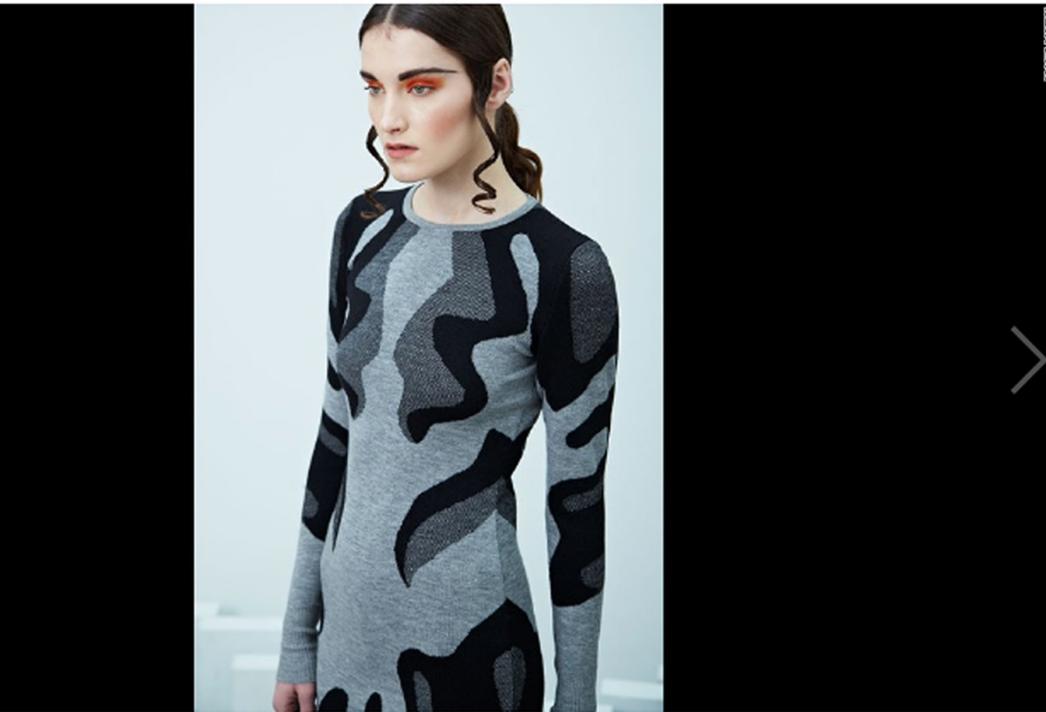
TEDMED

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Scans and bruise suits: Fashion and science collide at London Technology Week

Special to CNN
(2011 HKT) June 22, 2016



Science collide at London Technology Week

Brooke Roberts is a fashion designer who creates digital prints from medical scans.

Roberts is a London-based fashion designer and fashion tech blogger. All views expressed are

working at the crossroads of fashion and technology since the mid-2000s, her career as a fashion designer, with science and tech very much at the center of it. Who knew fashion tech would become "a thing?"



THE BLOG

Mira Duma's Fashion Tech Lab Puts Innovation And Sustainability Front And Centre

12/06/2017 14:43



Like 53



Brooke Roberts-Islam

Fashion Tech Innovator. Co-Director, BR Innovation Agency (BRIA)



Mira Duma and I at Copenhagen Fashion Summit - Image: Techstyler

When I met Mira Duma at Copenhagen Fashion Summit a few weeks ago she was just beginning to discuss an initiative she had been working on for over a year - Fashion Tech Lab. She has for years been a recognisable fashion week figure and favourite of street style photographers, so launching a fashion tech venture was a strong sign that fashion and technology may finally be starting to get along in a meaningful way.

About BRIA

BRIA creates smart and sustainable materials for research and commercial product applications

In September 2017 we completed a robotics/dance/projection graphics installation at the V&A for London Design Festival

Current projects include:

- developing a dissolvable textile for the fashion industry (EU funded project)
- 'Artists in Residence' at King's College Informatics (Robotics) Department, creating smart textiles

WEAR Sustain project

Currently 85% of clothing ends up in landfill, draining the planet's resources unsustainably

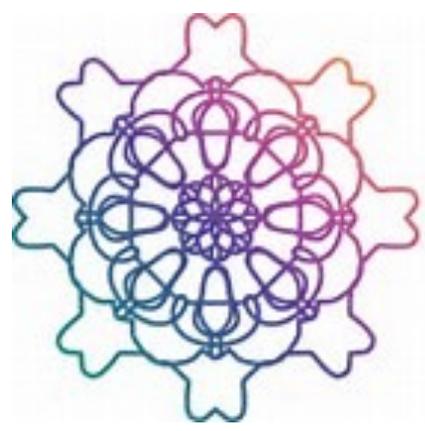
We will create a capsule collection of wardrobe essentials e.g. jeans, t-shirts, bomber jacket, that are fully dissolvable (chemically) thereby avoiding landfill

Customer returns garments to us at end of life to be dissolved and recycled into new materials

Fully circular system - all chemicals recycled in a closed-loop

One process is 100% water-based (no chemicals)

This textile innovation could support the creation of new products - even fully biodegradable 'plastics' for packaging



WEAR
sustain





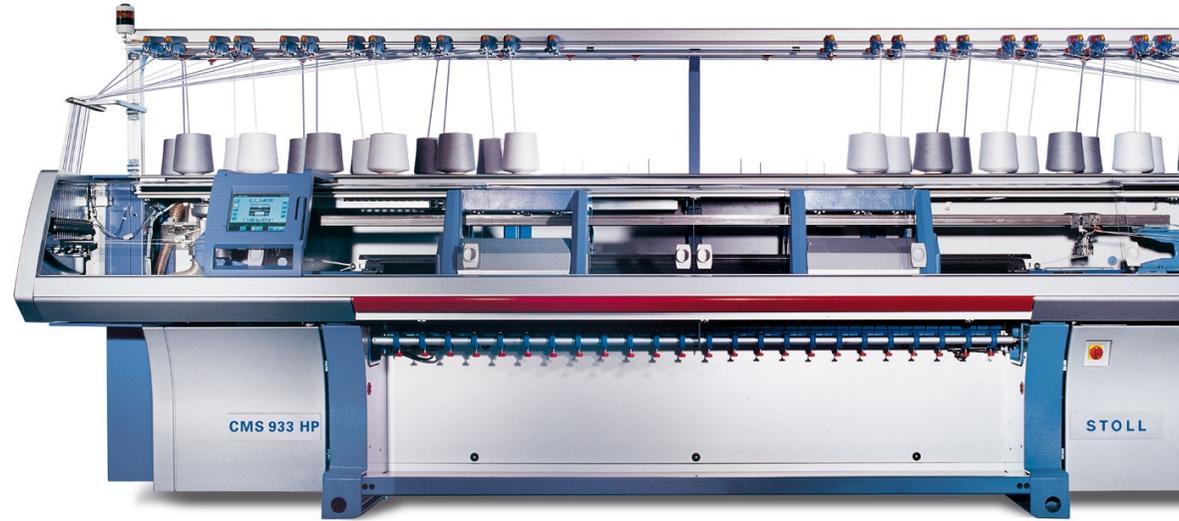
King's Artists Residency

Create knitted garment prototypes with conductive threads - soft textile sensors

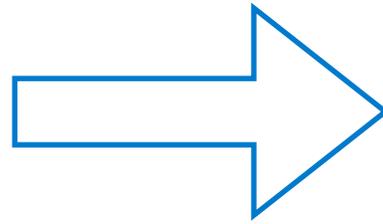
Knitted sensors allow us to capture body position and muscle activity data

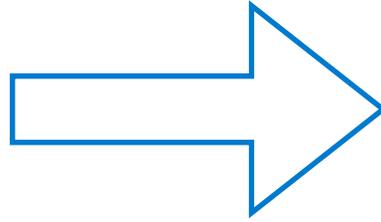
Research and product design applications

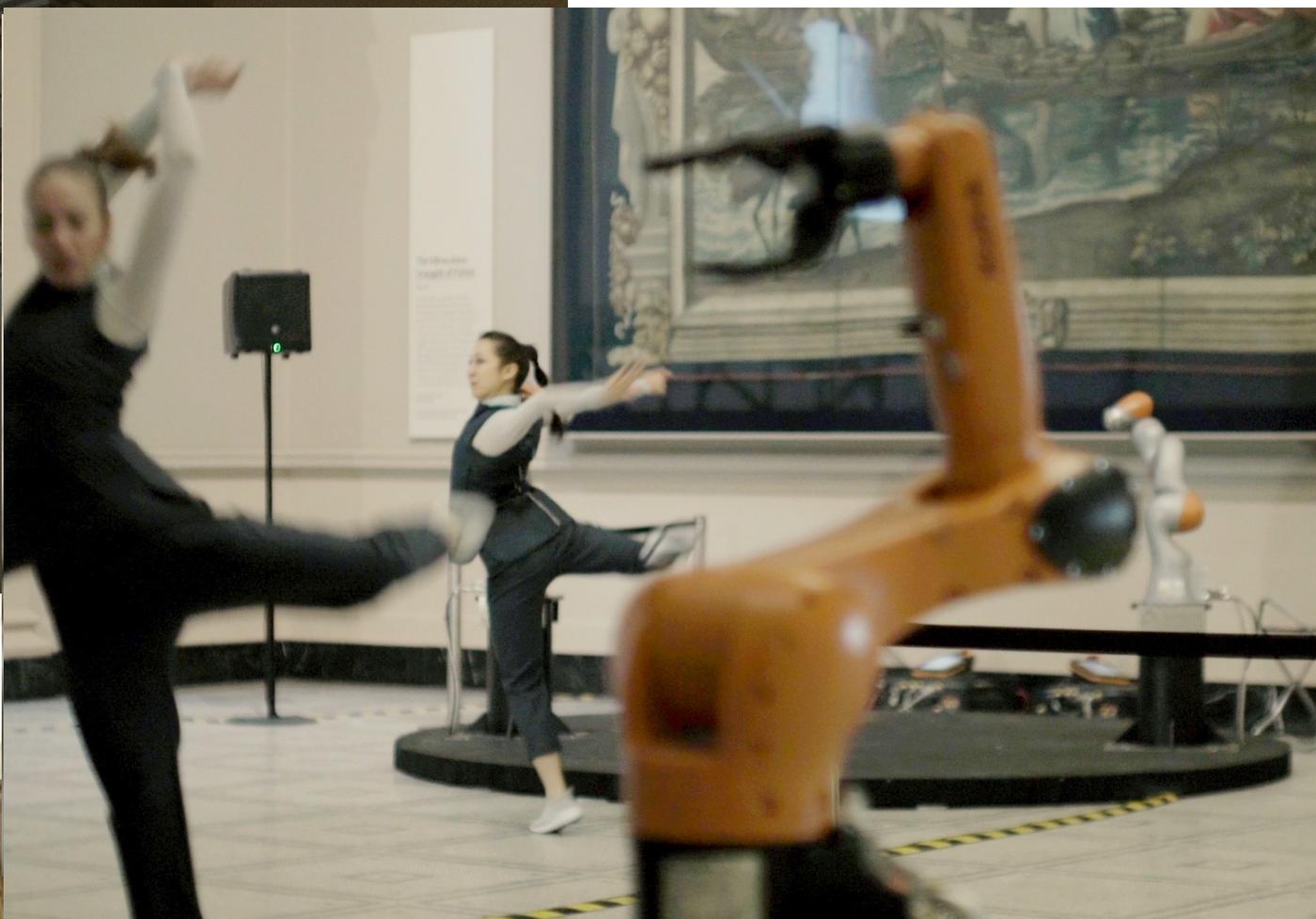
Possible products span healthcare, sportswear, fashion, automotive and aerospace industries



King's Artists Residency







Slave/Master
at

V&A

Why Create Slave/Master?

Sci-fi films often portray robots as taking over the world and stealing our jobs - a change of narrative is needed

Automation using robots is becoming common in all industries - more and more products are being made by machines

Automation means products can be made faster, cheaper and in any geographic location

If robots are doing the work of humans, how does that effect our future?

Robots are becoming collaborative, working alongside humans - how should we feel about this?

Can robots be used in simply industrial, or also creative, contexts?

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