Extended Senses Practice:

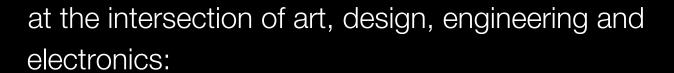
embodiment of technology & a feminist approach to designing emotional immersive experiences

C Baker 2001

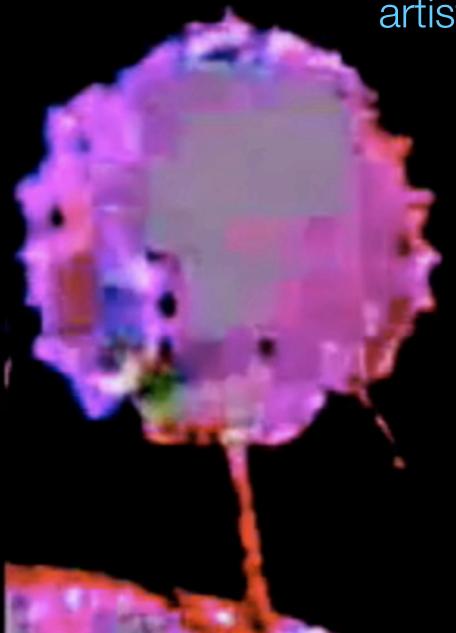
artistic practice mediums

- XR / immersive experiences
- e-textiles/wearables in performance
- mobile media art & performance
- interactive installation
- networked/telematic & participatory performance
- responsive environments design and interaction
- curating digital, electronic, interactive art and performance media





- immersive media and experience design
- experiential and participatory performance
- fashion, textiles, electronic and smart textiles
- screen arts: video production and art
- creative coding and emerging technologies (wearable devices, phones & VR)
- curation and community engagement in art and technology
- ...exploring developing methods for meaning-making in many art & technology modalities



practice and research evolution

Three strands have emerged over the years:

- 1) Media Art & Performance Curation
- 2) Art / Research
- 3) Community Engagement w/Art & technology

curating





• Curator and Event Producer - The New Forms Festival gallery, conference and performances - for 3 years from 2002-2004

Defragmentation: Curating Contemporary Music German research project April 2017–March 2019

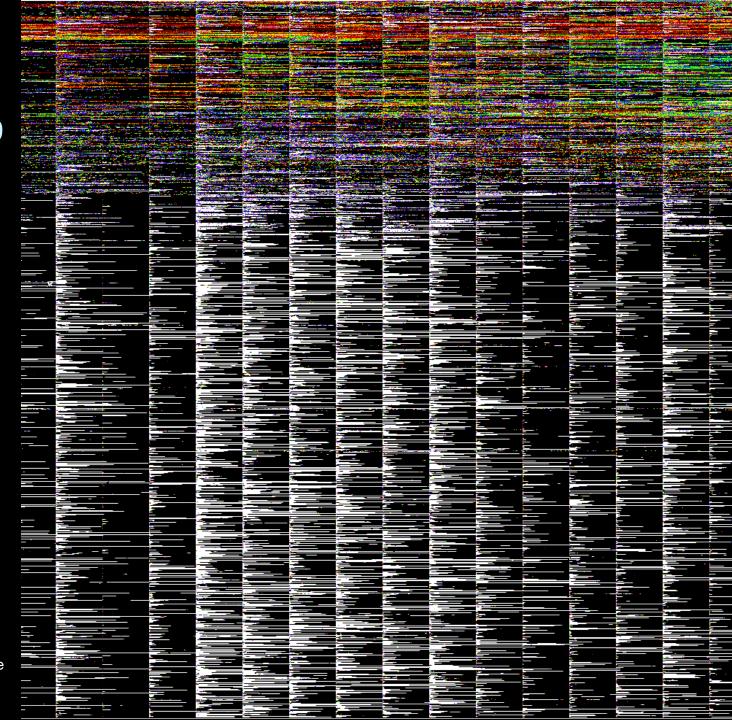
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LARS PETTER HAGEN
GEORGE E. LEWIS
TIM PERKIS
BERNO ODO POLZER
THOMAS SCHÄFER
HORTENSIA VÖLCKERS

"Defragmentation – addressing much-neglected questions on themes of "Gender & Diversity", "Decolonisation", "Technology" and "Curation" in new music. To render visible structural and habitual insufficiencies and develop better practices and more adequate discourses on these interconnected themes, examining the social relevance of contemporary music, reflecting on its genealogy, and its intersections with societal fault-lines of today.

Funded by the Kulturstiftung des Bundes, developed jointly by

1) MaerzMusik – Festival for Time Issues, 2) Darmstädter Ferienkurse für Neue Musik, 3) Donaueschinger Musiktage, and in cooperation with

4) Ultima Festival Oslo.





curating art & technology

PEAU D'ÂNE: CELEBRATING THE WORK OF VALÉRIE

LAMONTAGNE

October 13, 2020 to Present (Jan 2021)

Curated and designed by Camille Baker



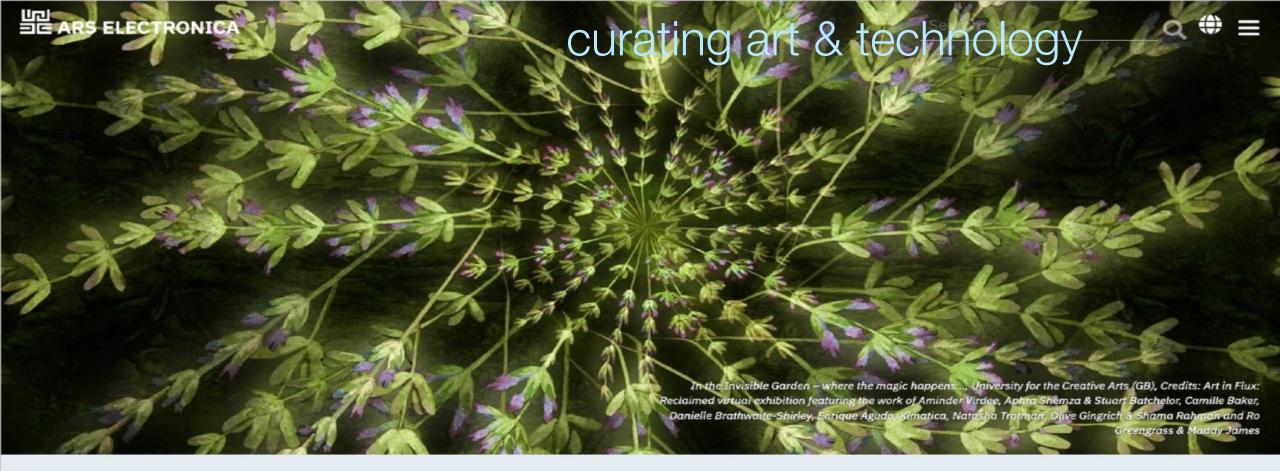
ARS ELECTRONICA | IN KEPLER'S GARDENS | PROGRAM

Ars Electronica Garden UK

Garden of Earthly Delights

University for the Creative Arts, FutureEverything, University of Wolverhampton, Art in Flux, NEoN Digital Arts Festival (UK)

Taking inspiration from the central panel of Hieronymus Bosch painting "The Garden of Earthly Delights" and the Ars Electronica 2020 meta-topics of ecology, democracy, uncertainty, humanity, reality, and autonomy. The UK Garden will act as a unifying community celebration of amazing art-tech/art-science collaborations showcased from north to south, with the START Prize winners, runners-up, nominees and other STARTS projects (residencies, Lighthouse projects) at the heart of the program.



ARS ELECTRONICA | A NEW DIGITAL DEAL | GARDENS

Ars Electronica UK Garden

In the Invisible Garden – where the magic happens...

University for the Creative Arts (GB)



artistic research

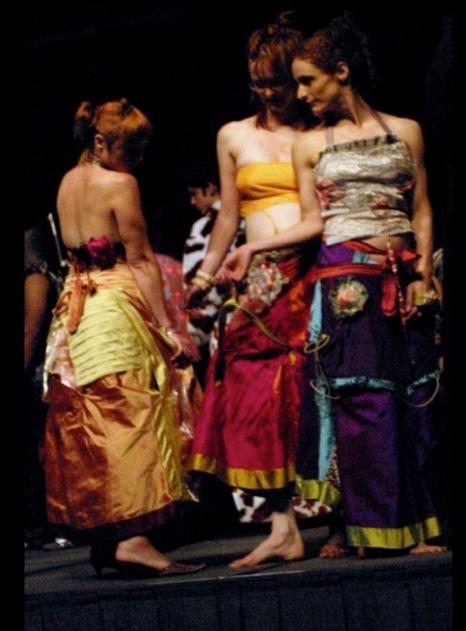
performance & technology research

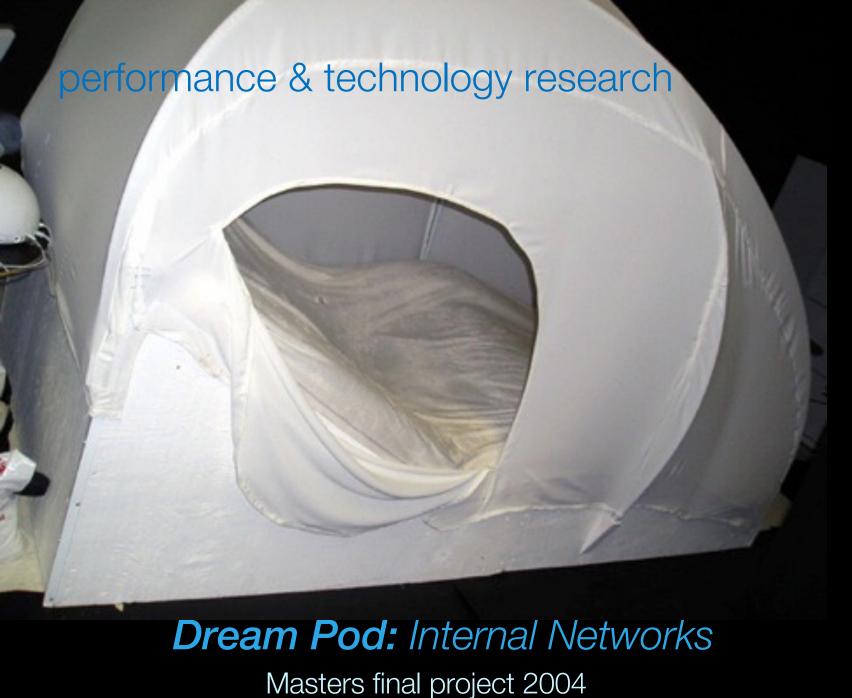


the whisper[s] project

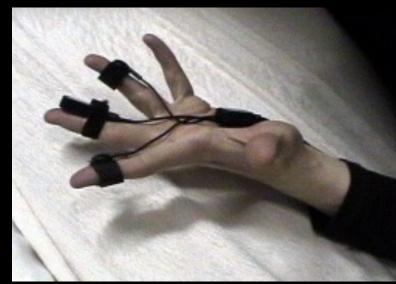
Researcher on the seminal wearable performance research project, led by Professor Thecla Schiphorst and Dr. Susan Kozel (2003-2006) Vancouver, Canada http://whisper.iat.sfu.ca/

whisper[s]: wearable, handheld, intimate, sensory, personal, expressive, responsive system



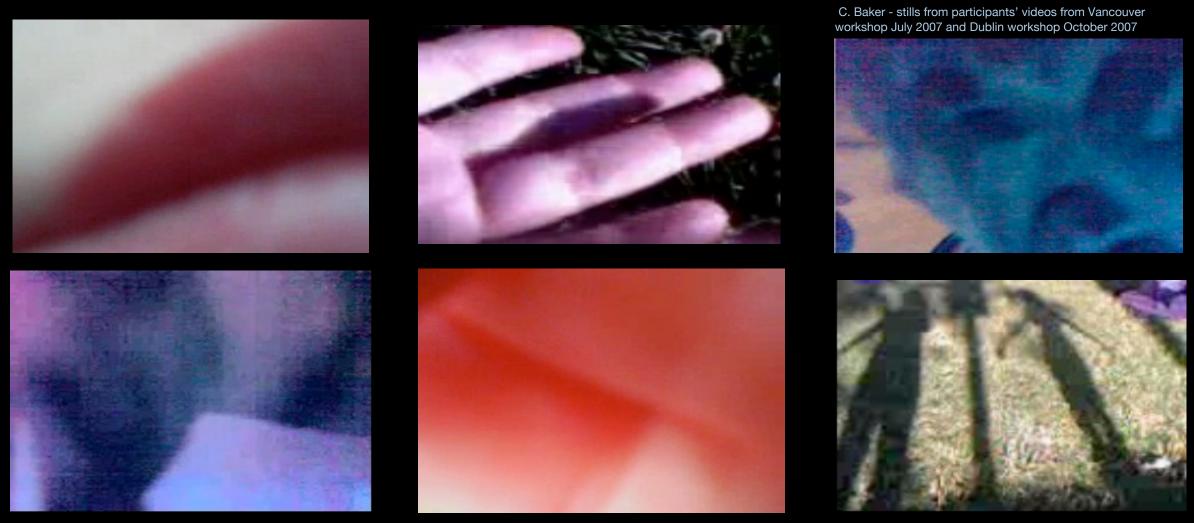






SMARTlab PhD media art research 2006-2011:

MINDtouch mobile performance research



-to uncover any new understandings of the sensations of 'liveness' and 'presence' that may emerge when using mobile technologies and wearable devices in performance contexts-

SMARTlab PhD media art research 2006-2011:

MINDtouch mobile performance research



prototype 2: garment 2009

SMARTlab PhD media art research 2006-2011:

MINDtouch mobile performance research

one of several events & participatory performance





SMARTIab PhD media art research 2006-2011:

MINDtouch mobile performance research

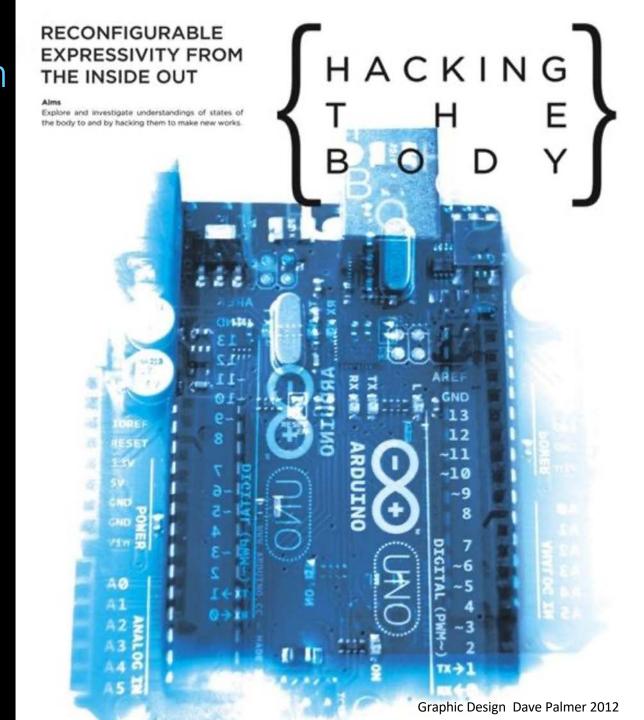




performance & technology research

Hacking the Body

an ongoing collaboration with dance artist /choreographer Kate Sicchio between 2011- 2018



Hacking the Body workshops: performative electronics DIY Ethos





Tek* 2013, Workshop, Byron Bay, Australia – June 15th, 2013



ISEA 2013, Workshop, Sydney Australia – June 9th, 2013

performance & technology research

- wearable technology and sensing devices in dance and participatory performance.
- novel uses of body data from wearable sensing devices as choreographic or performance devising material and research.
- ethics of data collection and how knowledge of it influences identity and expression in performance.
- making bespoke sensors and Smart Garments (wearable tech) as research

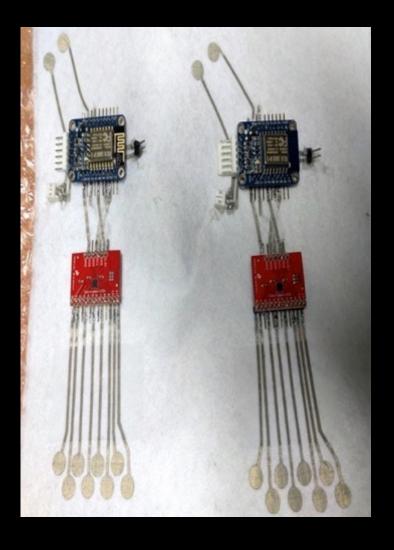


HTB 2.0: activities 2014-2018

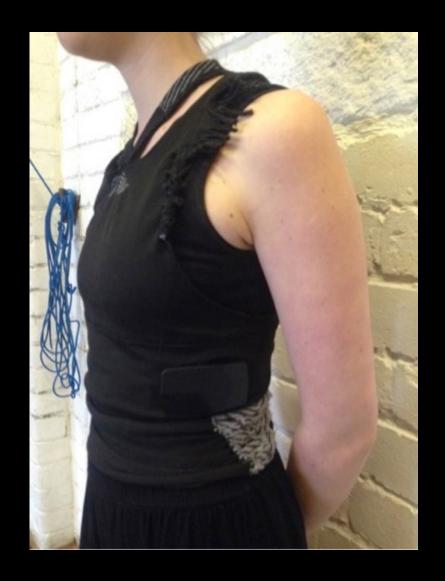


HTB 2.0: electronics development 2015





HTB 2.0: hacked garments Feel Me 2016







HTB 2.0: performances of Feel Me

London Feb 16th -Sheffield Feb 18th, 2016





images by Camille Baker © February 2016 – Hacking the Body 2.0 part 2

HTB 2.0: performances of Flutter/Stutter London Feb 16th -Sheffield Feb 18th, 2016

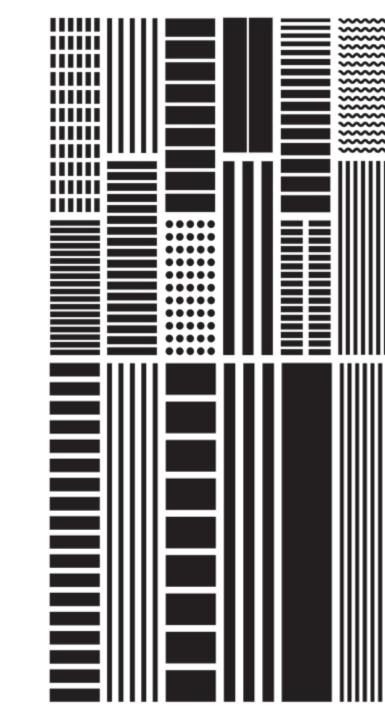


Sensory Spaces

April –Nov 2020

Professor Camille Baker
Professor Birgitta Hosea
Valkyrie Industries CTO, Ivan Isakov







Sensory Spaces

Prototyping

Can using haptic gloves with feedback through the fingers be used for an intuitive approach to sculpting in VR?

Sensory Spaces



Iterative development with a pool of specialist testers

Conclusion: demand for use of own hands when creating content



performance & technology research

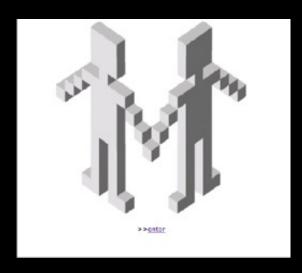
Art & Performance projects

- INTER/her VR art installation development, production and exhibition 2019-present
- Intangible Threshold commissioned online performance project Oct 1st to Nov 5th 2020
- Sensory Spaces, a StoryFutures collaboration—product dev & research Apr-Nov 2020
- Defragmentation German funded New Music Festivals research project 2017-2019
- HTB 2.0 w/Kate Sicchio, Prototyping & live staging performances 2015-2018
- Hacking the Body w/Kate Sicchio, Performance research 2011-2015
- Low Lives 3 Network Performance 2011
- MINDtouch: Ephemeral Transference, PhD Art-as-Research project- 2006-2010
- DreamPod Installation, MA artwork & research 2002-2004
- Spiritual Heroine & ultrapuss alt-rock band activities 1993-2007
- Video Artworks (various works) 1993-2005
- Modern dance performances and related activities 1989-1992

community building & engagement

online community building









Online community nurturing art, performance, parties & relationships: "tales of slacker bonding" Vancouver © 2001

FET-Art/ICT & Art Connect: EU Project 2013-14











NEM Summit Art & Tech Hackathon,

Vilnius- ICT 2013

Brussels- ICT & Art Connect 2013 & European Parliament

Edinburgh @ Scottish Parliament













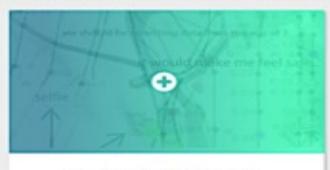
FET-Art/ICT & Art Connect: EU Project 2013-14



Selected Residencies 19 in totalhttp://www.ict-art-connect.eu/residencies/



Diasynchronoscope



Seeing healthcare...



Not to be reproduced



Bio Strike



Dancing with drones



Death from above















e-stitches collective network facilitating Design & Tech:

e-stitches is a community of specialists in the space of e-textiles and wearables in London. Through meetups, show & tell, and workshops, we create a space for learning, discussions, skill share and networking.

e-stitches started November 2014 co-hosted with Melissa Coleman, supported by Irini Papadimitriou, Director of the V&A Digital Programmes (until 2017).

Online since April 2020 to present

Now we have 6 chapters around Europe: London, Bristol, Limerick, Berlin, Barcelona, and now Rotterdam through V2

EU Funded project €2.3 million January 2017-April 2019

#WEARsustain

WEARSUSTAIN.EU



SUSTAINABLE INNOVATION

Art/Tech Collaboration

|
Open Calls
(Cross Border::Cross
Sector)
|

€2.4m Awards:
|
48 Innovations to market

Best Practice Methods



WEARABLES ECOSYSTEM

Be part of the next
generation of
wearables
|
40+ Network of
Hubs & Advocacy
Centres
|
Aesthetic
Ethical
Support



KNOWLEDGE EXCHANGE

Events

Symposia

Local Meet-ups

I

Digital Platform



ETHICS & SUSTAINABILITY

Personal
(Data)
|
Environmental
|
Material
|
Critical



WEAR Sustain- SUSTAINABILITY STRATEGY & TOOLKIT

Sustainable & Disruptive Innovation

>> Next Generation Wearables

|
Wearables Ecosystem
|
New Knowledge
|
Ethics & Sustainability Guidelines







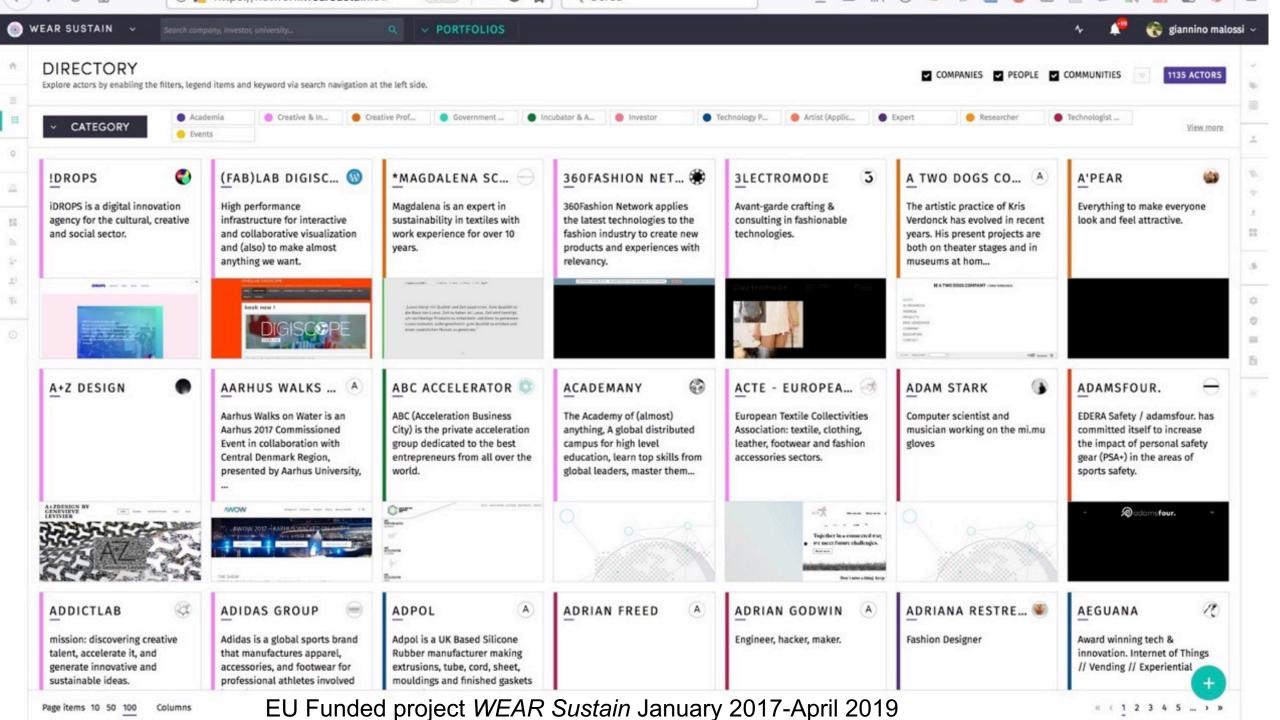














S+T+ARTS

SCIENCE + TECHNOLOGY + ARTS

A Single-entry point for European s+t+arts actors



Scientists: research labs, academia, think tanks...

Technologists: engineers, web developers, programmers...

Artists: performers, designers, composers, writers...

Supporters: producers, cultural institutions, festivals...

S+T+ARTS

SCIENCE + TECHNOLOGY + ARTS

www.starts.eu

The digital platform for hybrid collaborations between Science, Technology and Arts

Froth of the Daydream, Julie Desmet Weaver. STARTS Residencies

community engagement focus

- Connecting artists and designers with technology experts, scientists & companies
- Organising and facilitating matchmaking activities, events and opportunities
- Supporting collaboration of these pairings through facilities & equipment, time, funding, mentoring and other services
- Initiating new activities, residencies, research and enhancement tools for artistic and technologists/scientists
- Initiating new consortiums, partnerships and EU projects to enable novel initiatives
 focussed on the intersection of Art/Design and Technology/Science
- Developing <u>new strategies for engagement</u> with the wider community and public, as well as government policy on how these collaborative innovations address societal issues and provide critical solutions to wicked problems not found in other initiatives



ROUTLEDGE ADVANCES IN ART AND VISUAL STUDIES



INTERSECTING ART AND TECHNOLOGY IN PRACTICE

TECHNE/TECHNIQUE/TECHNOLOGY

EDITED BY CAMILLE C BAKER AND KATE SICCHIO

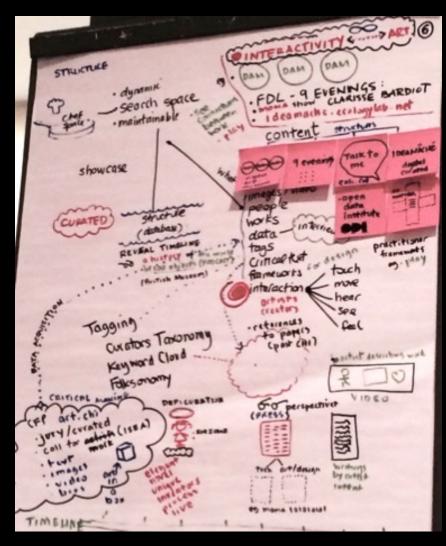


co-edited book, released December 31, 2016 - on creative processes in hybrid Art & Technology practices

Book chapter: *Curating the Digital* – eds. David England, Thecla Schiphorst, Nick Bryan-Kinns, Springer 2016



Based on Human Computer Interaction and Art Curating workshop at CHI 2014 Toronto to develop the direction of the book and future CHI curation



Book chapter: "Critical Interventions in Wearable Tech, Smart Fashion & e-textiles in Art and Performance", In Digital Bodies: Creativity and Technology in the Arts and Humanities, edited by Susan Broadburst and Sarah Price

Based on April 2015 residency experiments

Monograph released August, 2018



NEW DIRECTIONS IN MOBILE MEDIA AND PERFORMANCE

Camille C. Baker



New Directions in Mobile Media and Performance Monograph released August, 2018

© 2016 - Kasia Molga and Invisible Dust -The Humaån Sensor



© 2014 Jeannette Grinslov

















© 2015 Quasar by FIELD and © 2013-14 The Constitute, EYESECT

3

The Routledge Companion to Mobile Media Art



Edited by Larissa Hjorth, Adriana de Souza e Silva, and Klare Lanson



Recent book chapter:

"Wearing Data: Intentions and Tensions of Art and Design in Performance using Wearables"

Art & Performance Practice

practice trajectory

studied and performed modern dance as in high school and in university in Canada. Simon Fraser University, circa 1987 Vancouver Canada

practice: dance, music, video art, 3D animation, web design & media art curating









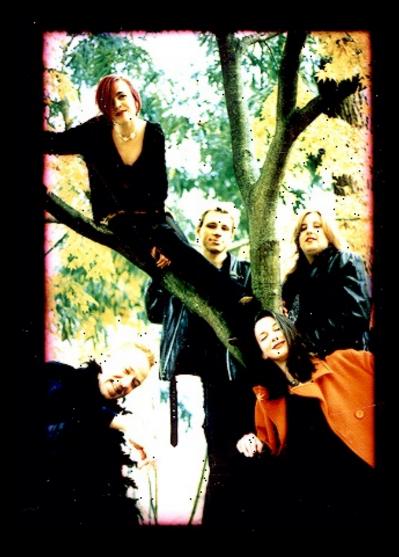




• multiple artistic pursuits in Vancouver, Canada 1993-2004

practice trajectory: music

band photos from Spiritual Heroine 1997 and ultrapuss 2007





• music composition and performance in alt-rock/pop/electronic bands from late 1993 - 2007: *ultrapuss* and *Spiritual Heroine*

recent practice

Online Residency Programme 2020

Oct 1-Nov 5th, 2020 https://access-space.org/



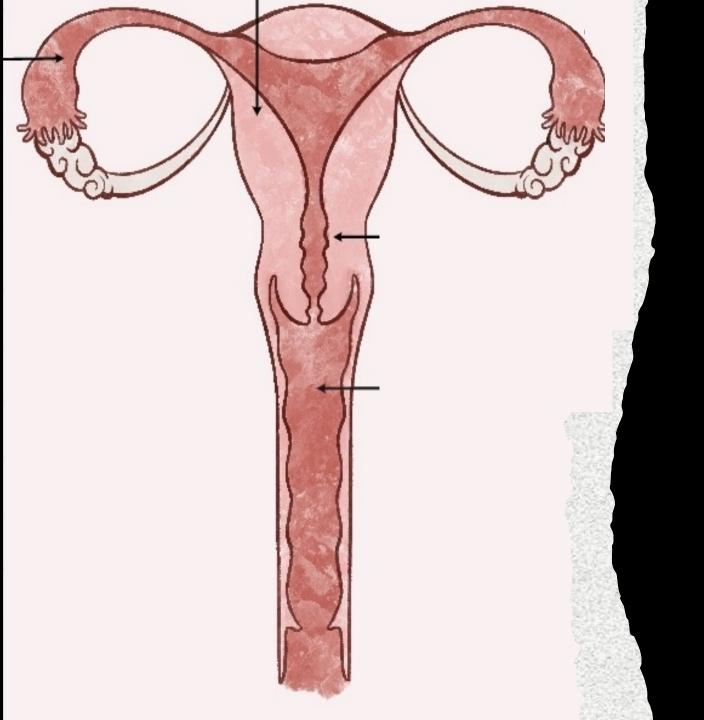
Camille Baker and Susanne Palzer - Intangible Threshold

Access Space is delighted to present 'Intangible Threshold', a collaboration between Camille Baker and Susanne Palzer for the Access Space Online Residency Programme 2020.

Intangible Threshold investigates collaboration and the meaning of connection over distance through screens and available technology. Coming together as two artists from different backgrounds in performance, Susanne Palzer and Camille Baker were brought together to answer this question: what methods do we have at our fingertips to brainstorm, devise, and rehearse live performance in COVID times in 2020? Through performative acts, digital connection through cameras, as well as using video conferencing tools,



Intimate Journey Inside the Female Body



INTER/her: immersive art-ed project 2019-21

An immersive, intimate, haptic experience that takes takes participants inside the female body, to explore lesser understood post-reproductive diseases, such as fibroids, polyps, endometriosis, cysts & cancers emotionally, based on my own and other female family & friends' experiences.

INTER/her immersive experience ...

- Inspired by my own experience with Ovarian Cancer and treatment in 2016
- Stories many different women who asked to be anonymous

Excerpts from:

- WOMAN: An Intimate Geography by Natalie Angier; and
- 2. Invisible Women: Exposing Data Bias in a World Designed for Men -Caroline Criado Perez.

INTER/her immersive themes...

Themes of:

- female identity
- self-love / self-care
- body image
- loss of body parts
- feelings of mortality
- body betrayal
- ailments, pain disease, tumours, cancer, treatment, surgery, etc.
- lack of reliable information
- male-dominated medical institutions
- sexuality fears
- negative festering of powerlessness and anger
- silence and isolation

INTER/her immersive experience ...

previous presentation question What experiences, knowledge and research does your work emerge from, and what aspects of care is it trying to address?

- my work comes from a focus on the body and how to connect out from and return to the body through technology as a means of extending the senses of the body and
- exploring non-verbal communication between performers with the body as the interface to the world
- my focus is also on how to revere the body as a fragile yet wise site of understanding the world, through tacit knowing - so I always return to the body
- for *INTER/her*, I am trying to address the issue of poor acknowledgement and understanding of biological female bodies and thus the poor care for it in the medical system

INTER/her immersive experience ... influences



Rosario Dawson – *Misting Vagina* Installation Burning Man 2011



Walk-in Vagina by South African artist Reshma Chhiba 2013

INTER/her immersive experience ... influences





INTER/her immersive experience ... credits

Camille Baker - Artistic Director / Concept

Maf'j Alverez - Unity Designer / Media Artist

Bushra Burge - Haptic Interaction / Fashion Designer

Kat Austen - Sound Designer/ Composer

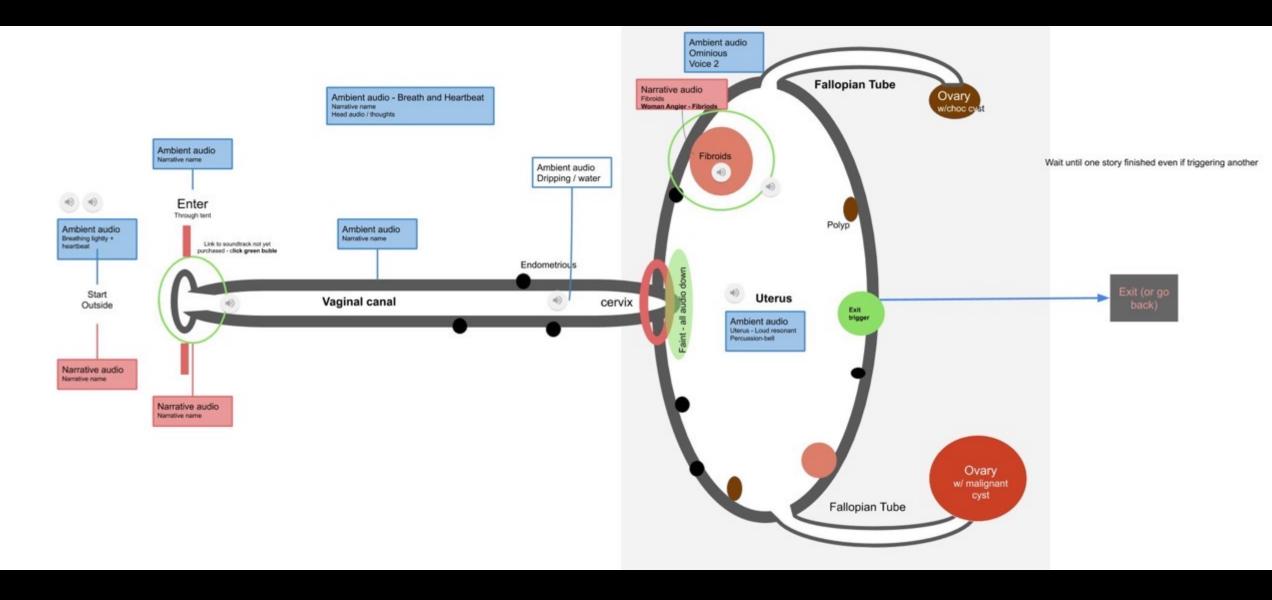
Sarah Büttner - Tilt Brush & Asset Concept Artist

with technical support from:

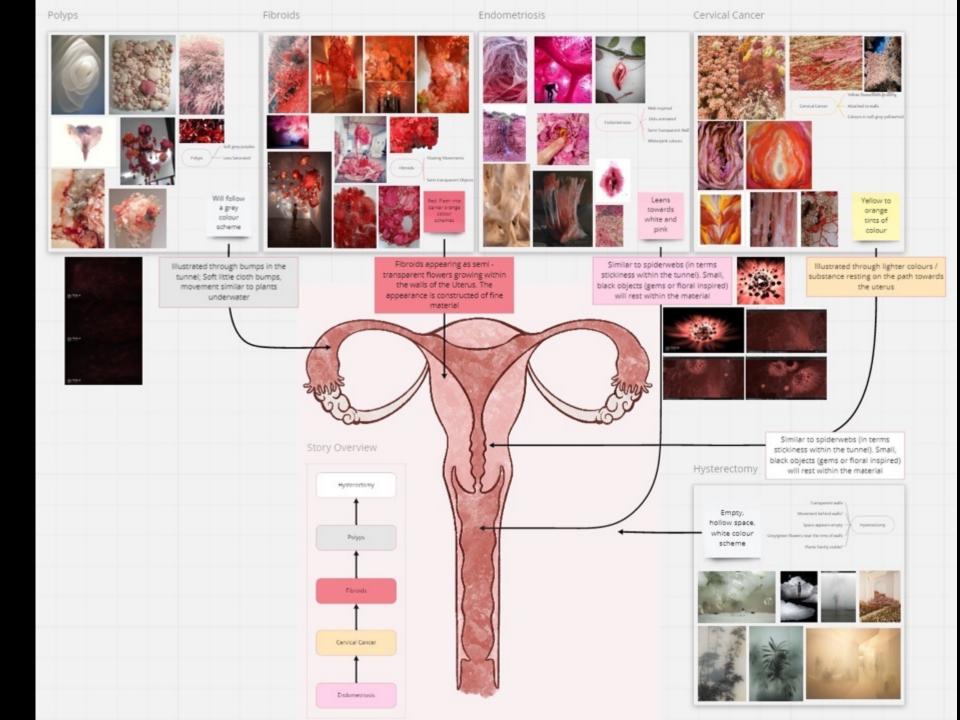
Paul Hayes - Electronics Engineer

Andy Baker - Unity coding assistance

INTER/her immersive experience ...journey



INTER/her immersive experience ... visual planning October 2020



INTER/her immersive experience ...some of the Tiltbrush artwork

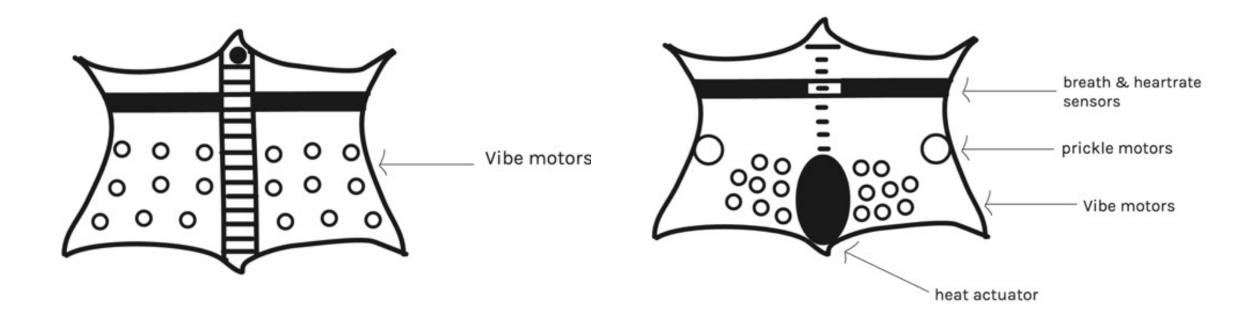


Using the voices of women telling their stories of fibroids, polyps, endometriosis, cysts & cancers and what they went through, layered and triggering the haptic corset as they travel to different parts of the uterus – with different encounters along the way

INTER/her © December 2020 S Büttner

INTER/her immersive experience ...early sketches

INTER/Her Haptic corset



INTER/her immersive experience ... haptic corset moodboard







INTER/her immersive experience ... haptic prototype electronics





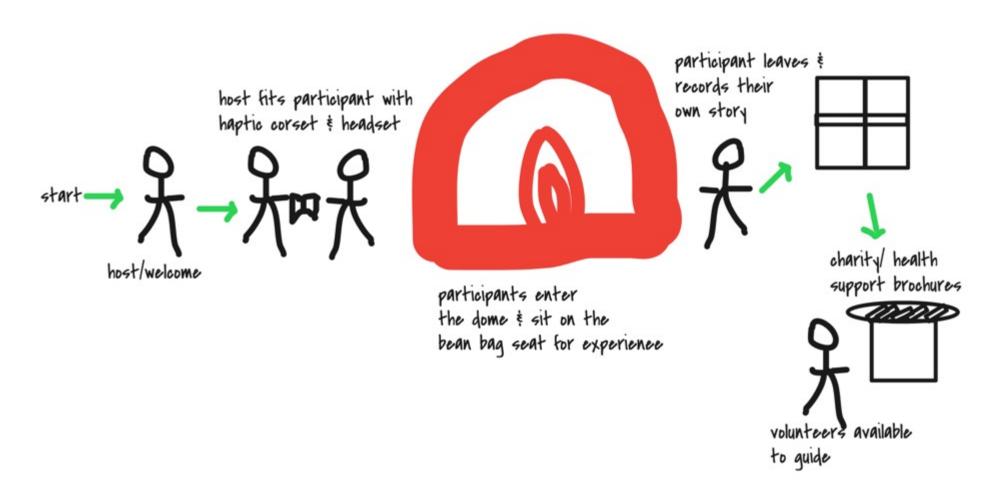






INTER/her immersive experience
final haptic corset

INTER/her immersive experience ...early sketches

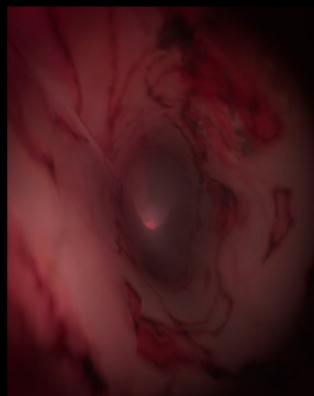


INTER/her immersive experience ... images inside VR environment May 2021

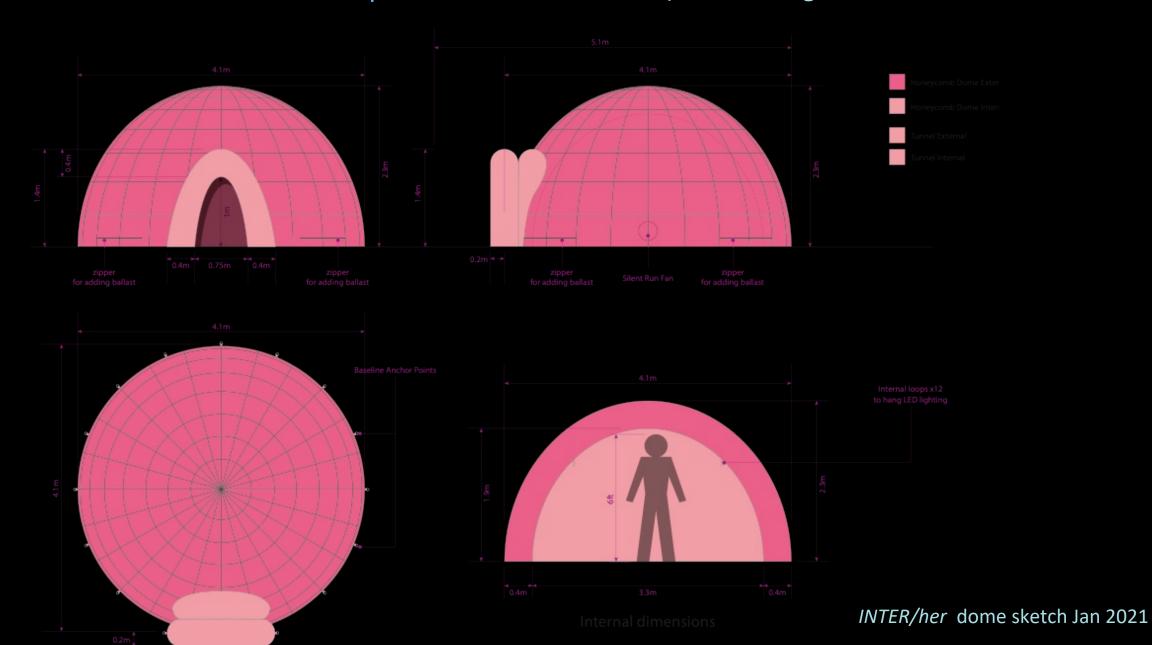








INTER/her immersive experience ... dome space design sketch



INTER/her immersive experience ... images from exhibitions



INTER/her immersive experience ... images from exhibitions





Brewery Tap Project Space Gallery, Folkestone June 23rd - July 6th 2021

Brighton Digital Festival Nov 3-7th, 2021

INTER/her immersive experience ... images from exhibitions





Brighton Digital Festival Nov 3-7th, 2021



Brewery Tap Project Space Gallery, Folkestone June 23rd - July 6th 2021



NEoN Festival: Wired Women, Nov 10-13, Dundee 2021



Brighton Digital Festival Nov 3-7th, 2021

New Malden Studios - May 30th, 2021







Extended Senses Symposium Exhibition, Greenwich University, Sept 2022



Video walk-in Extended Senses 2022



Extended Senses Symposium Exhibition, Greenwich University, Sept 2022

INTER/her immersive experience ... other images





drawing by visitor in Dundee December 2021

image by Dundee Courier December 2021

INTER/her feedback

Very good Storytelling at the begining and felt the pain of the ignorance of the nedics + NHS. Good work and entightening Adam Slaver

AMAZING!
Allamana

Very good M Just increebable! I hope everyone gets to experience this! An american thought probling experience. Extraordinery Project Camille!
Trought providing, very &
interne!

Amazing experience, evocative hoyet provoling- neshetially beartiful! Thankyou

Wonderful Immergine experience comeding visical, latile, a Saind & Orsian. Todastic. x

This was anazing and so thought problems and important! Thankyou!

What a powerful and intering experine Though for cruity this- Let's get ongy:

INTER/her immersive experience ... exhibitions

- Art in Flux: Reclaimed virtual exhibition showcase, London, launched March 30th until April 30th supported by National Gallery X Relauched for London's Kensington & Chelsea Art Week June 24th-July 4th
- The Brewery Tap, UCA Project Space Gallery, Folkestone June 23rd-July 6th
- Electronic Visualisation in the Arts (EVA)
 Conference and Exhibition, VR walkthrough virtual demo (also a Keynote Speaker) <u>July 7-9th</u>
- Ars Electronica 2021 UK Garden "In The Invisible Garden, Artistic Presentation for UCA 10th September, plus Art in Flux: Reclaimed virtual exhibition relaunch for Ars Electronica Sept 8-12th
- Access Space Network at Food Hall, Sheffield September 15th-October 10^{th, 2021}

INTER/her immersive experience ... exhibitions

- Brighton Digital Festival, at Gallery Lock In, Hove, Sussex, November 3rd-7th, 2021
- NEoN Digital Arts Festival, Wired Women* theme,
 Overgate Shopping Centre, Dundee, Angus November
 10th- 13th, 2021
- game:play lab at the Ontario College of Art & Design University (OCADU) collaborating with the ArtSci Salon at University of Toronto, Canada, <u>Dec 3rd-6th</u>, <u>2021</u> - demos only
- University of Toronto and University of York co-hosted exhibition for the *Technologies of Care* project. Opening April 7th at Ivey Library, New College, Toronto, Canada, <u>April 7-28, 2022</u>
- Stephen Lawrence Gallery, Greenwich University, *Extended Senses Symposium Exhibition*, London, September 8-10, 2022
- Peckham Digital: Festival Of Creative Computing, Eagle Wharf, 42 Bonar Road, Peckham, London, February 3rd-5th, 2023

0



2021 Lumen Prize 3D/Interactive Award Shortlist



INTER/her: Immersive Journey Inside The Female Body

Camille Baker

An immersive VR installation journey inside the female body, featuring personal stories of post-reproductive diseases and treatment experiences; moving from outside in within a real dome space, with an accompanying haptic corset to feel these experiences more vividly.

INTER/her immersive experience ... media

Press

- 1) Scottish TV (November 10, 2021) short feature on the NEoN Festival 2021 and INTER/her
- 2) <u>Dundee Courier</u> Interview with journalist Rebecca Baird, November 11, 2021 videos here https://jwp.io/s/8TUzZ913 and https://jwp.io/s/pERhVeOw
- 3) BBC Sheffield a live interview with Becky Measures, September 12th, 2021 (live at 13:15) audio recording
- 4) Access Space, September 18th, 2021, Interview with Artistic Director/ Curator, Jake Harries
- 5) The Huffington Post by Rachel Moss, June 22nd, 2021 Why Do Women Still Have To Fight For Answers About Their Health?
- 6) The Art The Science Blog (based in Canada) June 18, 2021, by Sara Truuvert, <u>INTER/her Breaks The Silence On Female Reproductive Disease & Pain</u>

INTER/her funders



Supported using public funding by

ARTS COUNCIL ENGLAND





The project was funded by The University for the Creative Arts and Arts Council England with IN-Kind support from Root Interactive

INTER/her mini-documentary



Extended Senses 2022



Extended Senses & Embodying Technology Symposium 2022



INTER/her: intimate journey inside the female body

Thank you

portfolio:

www.camillebaker.me and

inter-her.art

camille.baker@rca.ac.uk

twitter: oswampgirl67

instagram: @mythrakitty

