

Aalborg Universitet

ViLD Annual Meeting Report

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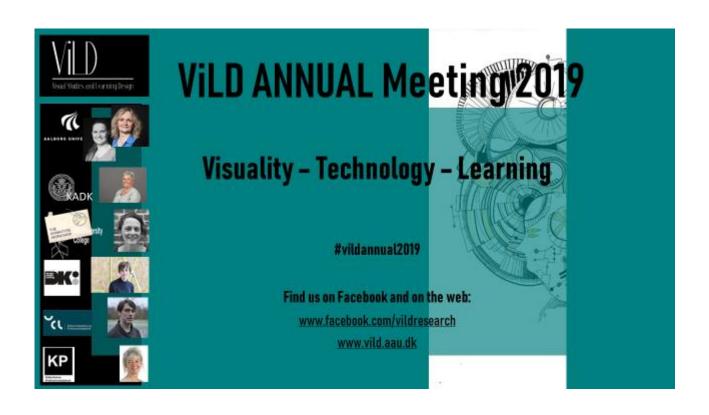
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VILD ANNUAL MEETING REPORT



Foreword

Research Center for Visual Studies and Learning Design (VILD) third annual meeting took place in The animation Workshop, Viborg November 15th, 2019.

This year's focus on visuality, technology and learning drove the agenda of exploring the visual's potential for knowledge generation forward by addressing the use of technology in visual learning practices and visual knowing as the driver for learning with and understand technology. By bringing together the idea of ideas and interests from researchers, educators and professionals together, ViLD facilititated new and important insights in the field and from the field.

ViLD's annual meeting was organised in activities to enhance visual experience, communication and interaction between the participants and to drive the agenda of ViLD forward. Thus reporting from the partners, workshops and a final keynote facilitated a new crossdisciplinary dialogue. This report sums up the eventful day by sharing slides, pictures and text. Thank you to all of you who made this event magnificent. We are looking forward to see you next year on Nov. 12th 2020!

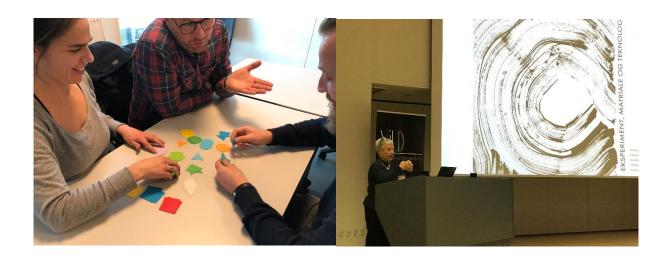
On behalf of ViLD, Mie Buhl, Director



Visual Studies and Learning Design (ViLD), Mie Buhl ©
Aalborg University A.C. Meyers Vænge 15, DK-SW 2450 Copenhagen www.vild.aau.dk
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- 5. Workshops hosted by ViLD partners
- 6. Keynote, Pamela Burnard, Cambridge University and Panel with Rikke Toft Nørgaard and Stine Ejsing-Duun
- 7. After event at The Animation Workshop





1. ViLD Programme

ViLD Annual 2019 Programme:

- 9.30 9.35: Welcome. ViLD partner Sia Søndergaard, TAW
- 9.35 9.45: Introductory thoughts on Technology and Visual practices. Mie Buhl, Aalborg University
- 9.45 10.05: Being ViLD a growing network- pitches of projects going on in partner institutions (5 min)
- 10.05 10.20: Coffee break
- 10.20 12.00: Workshops 1+3
- 12.00 13.00: Lunch
- 13.00 14.30 Workshops 2 + 4
- 14.30 14.45: Coffee break
- 14.45 15.30: Keynote: 'STEM-to-STEAM: The necessity of (re-)configuring the 'a' in STE(A)M. Pam Burnard,
- 15.30 16.00: Panel: Pam Burnard, Rikke Toft, & Stine Ejsing-Duun
- · 16.00: Goodbye and see you next year
- 16.05-17.30: After event and networking



2. Welcome to The Animation Workshop Viborg, host of this year's meeting

The Animation Workshop has since 2016 been a partner in ViLD. Member of the steering group, Sia Søndergaard hosted ViLD annual on Kasernen in Viborg and welcomed the participants.



3. Introductory remarks and of the theme, Mie Buhl, Director, ViLD

Visuality – technology – learning. ViLD ANNUAL 2019

Welcome and introductory remarks and programme

Mie Buhl, ViLD director

"Welcome to ViLD annual meeting. This is our third meeting. ViLD is a research center exploring the

visual's potential for knowledge generation. And we are an open network for researchers and professionals who share this interest with us. As you can see six partners constitute the center's steering group and the center is managed from Aalborg University Copenhagen. Thank you to ViLD partner TAW – for hosting this year's meeting. Being a partner is one way to participate, but there are other ways of participating too (please visit our website for more information). Our mission is to create a cross and transdisciplinary platform for exploring and development of a visual take on knowing and learning. Our activities – project, meetings, seminar, and workshops are dedicated to this mission. Some of our activities are proposed of participants interested, some are executed by VILD partners which will be presented today. The idea of these annual meetings as meetings is to emphasize our idea of participating, doing and discussing as ways of knowing. We have composed today's programme accordingly.

Contemporary Danish education is devoted prepare its citizens and future workforce to promote national growth and to deal with global challenges as articulated in the UN's goals for Global Sustainable Development along with uncertainty of how the future political world scene evolves. To meet these challenges, the Danish education system is occupied with strengthening technical and natural sciences. Especially, Technology is highlighted as the key to solutions.

Digitalization is reflected in the educational system: ICT is a cross-disciplinary theme in all school subjects in elementary school and high school due to the latest reforms in 2014 and 2017. At universities DIGITALISATION OCCUR IN STRATEGIES FOR RESEARCH AND STUDY PROGRAMMES. In adult learning various e-learning formats emerge in order to meet the needs for flexibility in time, space and pace for a busy workforce. In other words: education, research and professional practices strive to respond to technology's powerful influence in society.

BUT IF TECHNOLOGY IS THE ANSWER, WHAT IS THE QUESTION?

With this year's theme, ViLD is keen to explore the relation between visuality and technology in education and in different learning practices. We have chosen to pose the following questions:

 What role does visuality play in the new Danish school subject Technological Understanding

and how about technological understanding in Visual arts education? How is the development of computational thinking informed by insights from visuality? Workshop 3 will address this by reporting from the ongoing project and showcase a hands-on

- How do we deal with matters of visuality in digitalization of youth- and further education?
 Workshop 1 + 2 + 4 will give you hands-on experience with three technologies.
 - Do the so-called STEM (science, technology, engineering, mathematics) disciplines need the

arts - to add the 'a' in STEM and thereby become STEAM? Our keynote speaker, Pamela Burnard will address this and discuss this further with our invited panel

• Can contemporary art and visual culture teach us new approaches to work with and understand technology or is it technology that change artistic work fundamentally? And does technology promote creativity or do we need to stimulate creativity in order to deal with technological and human entanglement? These questions will be addresses in, by and through all our activities during the day and in panel with Pam Burnard, Stine Ejsing-Duun and Rikke Toft Nørgård.

We hope that the day will provide new aspects of the visual's potential in dealing with, using, understanding and reflecting on technology and the function of it in learning and I wish you a fruitful meeting."

4. Being ViLD – a growing network presentation of activities by ViLD participants

This year's 'Being Vild' was a reporting from activities initiated by the partner institutions and took place as five minutes pitches:

Slides from the reporting from The Royal Academy of Arts (KDAK), Department for visual design, showing how KDAK students explored the software program GLYPH Drawing club to develop an alternative visual language. Presented by Tine Kjølsen, Head of programme, KADK.

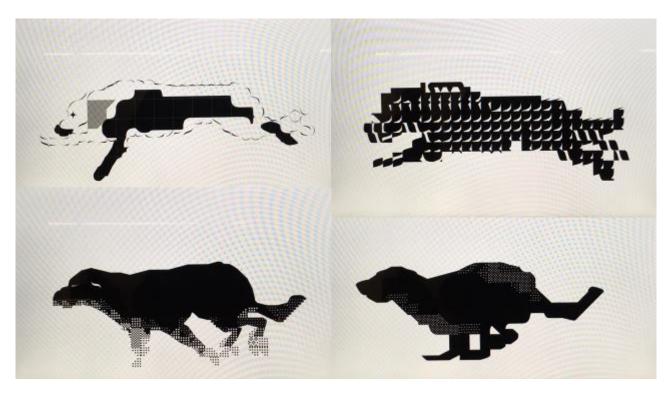












Slides from the reporting from of a collaborative research project between Aalborg University and University College Absalon presented by Lars Bo Kinnerup, Lecturer, University College Absalon

Visual learning in teacher education's teaching subjects



A small scale research project on teacher student's visual pedagogical content knowledge.





Lars Bo Kinnerup Viborg 15/11 2019



Participants



- Mie Buhl, Professor AAU, Cph dept.
- Birgit Brænder, Lecturer, Arts, Teacher Education, UC Absalon.
- Merete Schou von Magius, Lecturer, Danish, Teacher Education, UC Absalon.
- Lars Bo Kinnerup, Lecturer, Geography, Teacher Education, UC Absalon.



The research project

AB SAL ON

Purpose:

 To investigate the potentials of visual learning in order to develop teacher student's professional competencies.

Why?:

 We assume that images and visualizations have untapped opportunities to promote specific teaching skills.

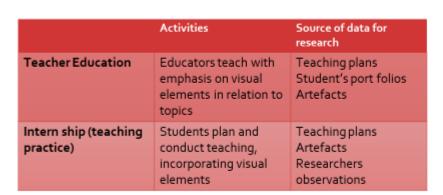
Research question:

 How does the use / production of visualizations and images generate professional competence, eg in the teaching subjects Arts, Danish and Geography



3

The research design





Note: Teacher Educators and researchers are same persons

4





Emperical element	Scale
Students in total	50
Portfolios	44
Observations of internship teaching	Arts: 2 observations, 4 students Danish: 3 observations, 7 students Geography: 3 observations, 5 students
Elements transferred from TE to Internship	Origin in project period 13 Origin before project period 5



Some results from the internship



Arts (crafts and design)	Pictures as inspiration	Making figures of felt	-
Danish	Content made available and comprehentable	Visuals as mode of expression	Identification of problems and suggestions for their solutions
Geography	Informations from maps. Pictures of people and places.	Visuals support explaining facts and concepts in presentations	Use of diffent thematic maps to detect patterns and connections



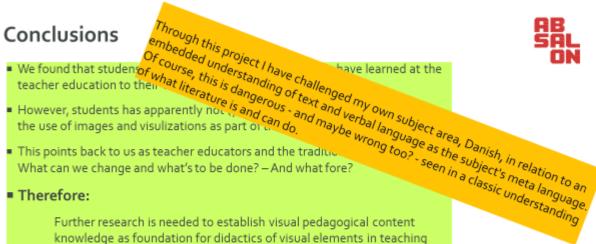
Some results from the Teacher Education



- With visualizations we can ...
 - create and retain motivation and attention,
 - share knowledge and experiences
- Visualizations can ...
 - be vehicles for meaning making and development of new knowledge
 - stimulate critical as well as spatial thinking
 - create awareness of emotions, attitudes and values
- Visualizations has been used for ...
 - receptive purposes
 - productive purposes
 - reflective purposes



Conclusions



- This points back to us as teacher educators and the tradition What can we change and what's to be done? - And what fore?
- Therefore:

Further research is needed to establish visual pedagogical content knowledge as foundation for didactics of visual elements in teaching subjects.



Slides from a collaborative research project between Aalborg University and University College (KP) Copenhagen presented by Kirsten Skov, Associate professor, University College Copenhagen (KP)



COLLABORATION BETWEEN AAU & KP

The institutions: AAU & KP /University college Copenhagen

Collaboration between

- International teacher training students attending an INNOLAB module
- · AAU students at Communication & digital media
- · Innovation in teacher training education
- · Design of a solution to a stakeholder

COLLABORATION BETWEEN AAU & KP

Stakeholder

- KP offers an innovation module INNOVATION LAB to Erasmus students at the teacher training education
- AIM: to give students the capability to work with innovation in their future profession in school with kids and youngsters
- Students have different backgrounds Study different subjects and have different experiences with teaching cultures
- However it's a challenge for these students to work in a creative and innovative way. They need scaffolding in processes, that facilitates creative thinking & innovation

COLLABORATION BETWEEN AAU & KP

WHAT AAU students are asked

Designers

- · Develop a digital solution
- An IT-didactic design that can be used by international students at INNOLAB to help them developing creative thinking & innovative competences
- Use technologies or applications that supports competences in creative thinking - ex a game or an app

PURPOSE

 Helping teacher students to be more creative & innovative in their future profession being able to develop innovative competences for pupils by using innovative learning processes

COLLABORATION BETWEEN AAU & KP

WHAT THE STUDENTS GAIN from the collaboration

- The aim and purpose
- Bringing two perspectives together learning & profiting from different study cultures and knowledge fields
- Utilize the capacity from communication and digital media students to develop a digital learning resource for teacher students
- Utilize the capacity from INNOLAB teacher educator and teacher students to qualify the didactics of the learning resource
- · Developing curiosity and getting inspired
- Enhance motivation, responsibility to their study and being more attentive to own professionalism



Reporting from Aalborg University: Slides from a research project presented by Stine-Ejsing Duun, Associate professor Aalborg University

Design as a mode of inquiry

Stine Ejsing-Duun ViLD Annual 19



Thinking or presenting

"We cared so much about it being straight", she says while her fingers slide across the edge of the cartrigde wall.

"But we had to remind ourselves, that it wasn't the intention."

...It was merely a "sketch"

(Excerpt from field notes, Skovbjerg, 2017)

Design process as an inquiry – could this be it?



Inquiry through materials

They stand and talk about the room looking at their scale model.

They talk about what you see when you enter the door, and what you do not see – and about the trajectories.

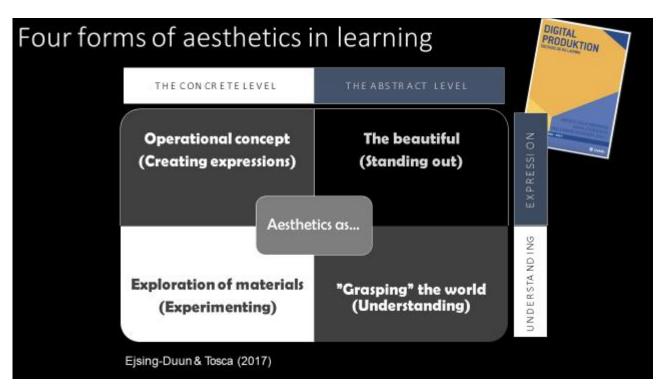
One says while looking down on the model: "Our room is not a passageway"

(From field notes, Ejsing-Duun, December, 2017). (Ejsing-Duun, S. & Skovbjerg, H.M. 2018, in press)

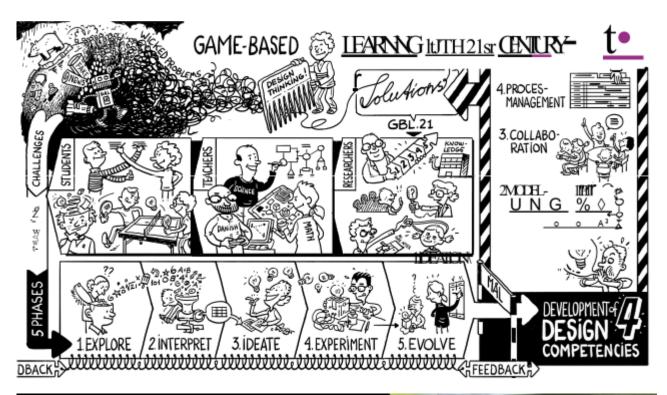


Design as a mode of inquiry in design pedagogy and design thinking

		(Skovbjerg & Ejsing-Duun, 2018)		
	Mode: Process (Reflective practioneer)	2. Mode: Research (Design-Based Research)	3. Mode: Politics (Critical design)	
Indeterminate situation What kinds of questions can be asked?	Starts with: — Clients' problems — Users' practice — Designers' own practice	Starts with - Lack of knowledge on domain - Questions about domain	Starts with: Designers identification of issue Non-awareness of/carelessness about a political issue amongst citizens	
Controlled/directed transformation What does the inquiry aim to change?	Alms to: - Solve issues for the target users - Solves the client's problem - Improve practice for the designer	Aims to: Gain knowledge about domain Solve issues for the users	Aims to: Raise awareness of structures Make the issue actionable Look like areal design	
Assumptions/knowledge What does design build upon?	Assumptions are made based on: Experience Empirical observations and possibly theory	Assumptions are made based on: Theories about the domain and empirical knowledge	Assumptions are made based on: Research knowledge about (tech) development for the future or Knowledge about consequences of past choices	
Methods applied How does design determinate its constituents, distinctions and relations?	Approach to problem: Naming and framing Generative metaphors	Approach to problem; - Iterative process going from knowledge of the domain to lab, to intervention, to reflection that leads to new insights about the domain	Approach to problem: - Tracing and projection tactics (both analytical and synthesising)	
The mode's objective What is regarded as a determinate/stable situation?	Goalt - Designer solves the issue and become a better designer	Goal: Design knowledge and principles are found and tested The intervention is implemented	Goal: Publics are raised in relation to the issue	







Thanks!

DON'T BE A STRANGER

Social Media: @agentnifty

• Mail: sed@hum.aau.dk

About GBL21: http://gbl21.aau.dk

My research: http://personprofil.aau.dk/100986

LinkedIn: https://www.linkedin.com/in/stineejsingduun/



5. Workshops – hosted by ViLD partners

Workshop 1

Developing educational VR-games *Andreas Husballe and Jannick Lund from Vizlab Studios* The workshop invites you to explore the world of virtual reality and learn about the pros and cons of using VR for educational purposes.

During the workshop you will be able to try the educational VR-games developed by Vizlab Studios and get hands on experience on how to generate and validate educational concepts for VR.



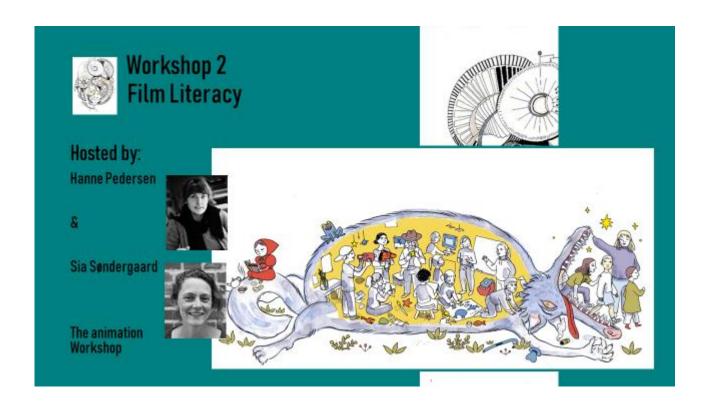
Workshop 2

Film literacy – learning trough producing in and across disciplines

Hanne Pedersen and Sia Søndergaard from The Animated Learning Lab/VIA UC

The workshop invites you to explore the potentials and solutions of creative and production-oriented learning through film and media literacy, and will present the experience from Animated Learning Lab/VIA UC. We will discuss film and media Literacy as a key when developing new didactic designs for- and with teachers and pedagogues.

During the workshop you will be presented for a new competence-development method - expanding learning communities and skill development networks and fostering partnerships between schools and the audio-visual industry. With stop motion we will take you through a little hands on workshop to get the picture.

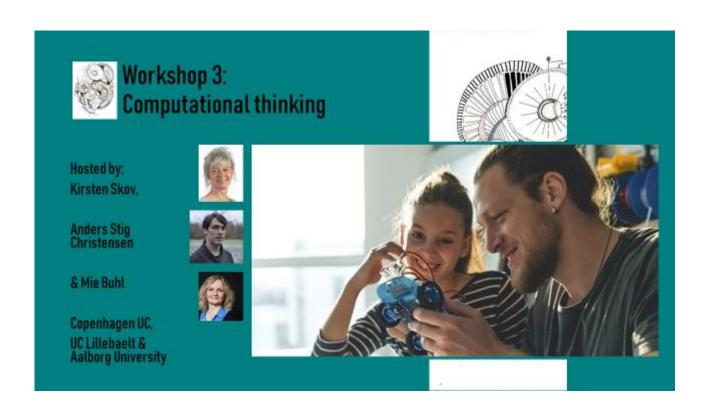


Workshop 3

Computational thinking utilizing visual arts or the other way around

Kirsten Skov University College Copenhagen, Anders Stig Christensen, University College Lillebaelt, Mie Buhl, Aalborg University

The workshop invites you to explore the role of visualizations in the implementation of the new school subject Technological understanding [Teknologiforståelse] in the Danish school system – but from the existing school subjects' point of view. How can the school subject visual arts engage in activities developing computational thinking, construction, and design and still be taught as visual arts? Likewise, from the perspective og the school subject social studies: How may visualizations support students' critical thinking and reflection of digitalisation? This workshop reports from the ongoing national project Tekforsøget https://xn--tekforsget-6cb.dk/
During the workshop you will have the opportunity to try parts of the prototypes already developed and discuss the implications of technological understanding from a visual perspective with participants from the project.

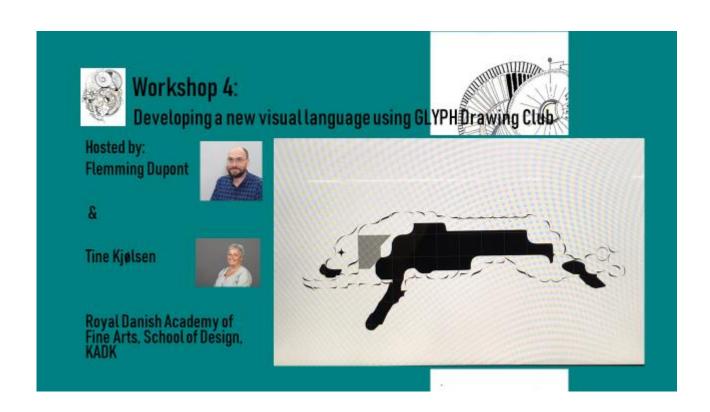


Workshop 4

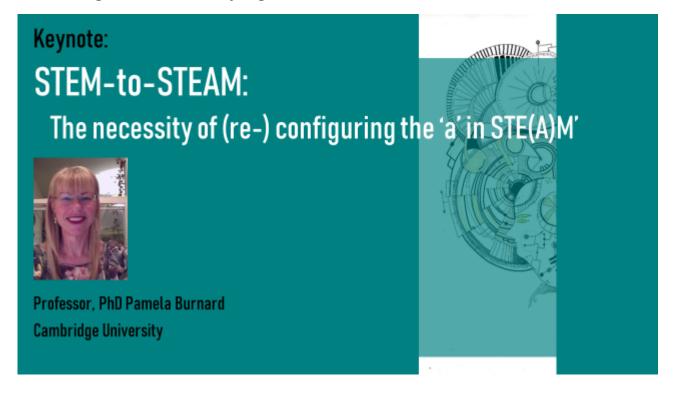
Developing a new visual language using GLYPH Drawing Club

Flemming Dupont and Tine Kjølsen/ KDAK

The workshop invites you to explore how the software program GLYPH Drawing Club can be used to develop an alternative visual language. The visual language is developed through the user's interaction with the program that contains restraints. The user's new developed visual language serves as a database of ideas that forms the basis for making graphic solutions. The program is part of bachelor students experimental work in visual design at the KDAK in Copenhagen. During the workshop you will be have the opportunity to try the program and learn from the experiences made.



6. Keynote, Pamela Burnard, Cambridge University and panel with Rikke Toft Nørgaard and Stine-Ejsing-Duun

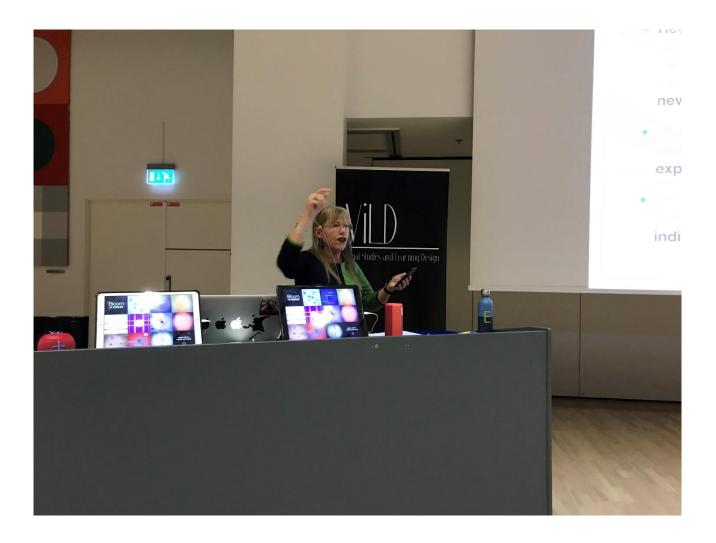


Keynote Title 'STEM-to-STEAM: The necessity of (re-)configuring the 'a' in STE(A)M'

Pamela Burnard, Professor of Arts, Creativities and Education at the Faculty of Education, University of Cambridge

Abstract: If STEAM is seen as a continuation of STEM, adding to the economic drivers supporting scientific and technological developments, the arts are framed as a handmaiden to STEM, to facilitate engagement, to raise interest, to increase appeal. Such a position is contested on a number of grounds one such that it denies the intrinsic value of the arts, but also that of the sciences; that it presupposes a hierarchy of knowledge and that it assumes that the arts should necessarily be appealing to everyone. But there is also another line of thinking which forms the basis of this talk. The relationship between STEM and STEAM can be seen as an important forum for addressing questions of scientific and technological development vis-à-vis society and the environment. This view seeks further dialogue and experimentation across different fields of knowledge, practice and inquiry to deepen understanding of knowing in the arts and sciences and to widen their purpose and evolution to support prosperity as well as sustainability and wellbeing. The current movement to integrate arts within STEAM education is relevant not only for responding to complex societal and economic problems of the twenty-first century, but in that it carries its own paradigmatic shifts

that decentre dominant discourses in education. Drawing on a British Educational Research Association (BERA) Research Commission 'Reviewing the Potential and Challenges of Developing STEAM Education' (Colucci-Gray, Burnard, Gray and Cooke, 2019), and a forthcoming edited collection on 'Why Science and Arts Creativities Matter: (Re-)Configuring STEAM for Future-making Education' (Burnard and Colucci-Gray, 2020), Pamela will argue the imperative for widening the (re-) configurings of STEAM, as a boundary-object and knowledge-practice in design; a construct that can be shared by different communities and networks, as they come to interact with one another. She will also present a novel analysis of 200 "math-artworks" that were created by South African young people in Grades 8–12 following a series of experiential workshops. She offers insights on how STEAM uniquely engenders a "mutuality of disciplines" that STEM-TO-STEAM work intra-actively in STEAM practices such as in videogames.

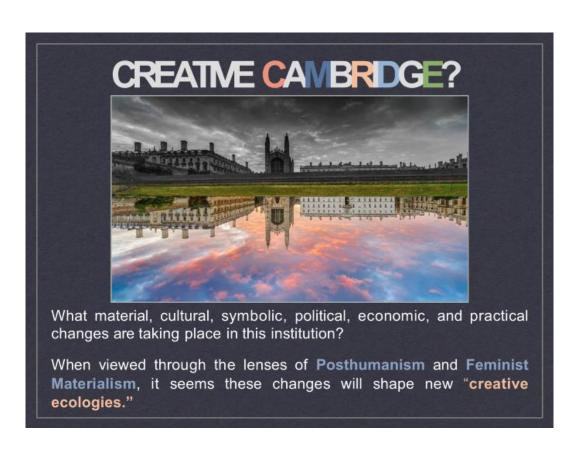


Slides from the keynote:



Thinking-with Erin Manning (2013)

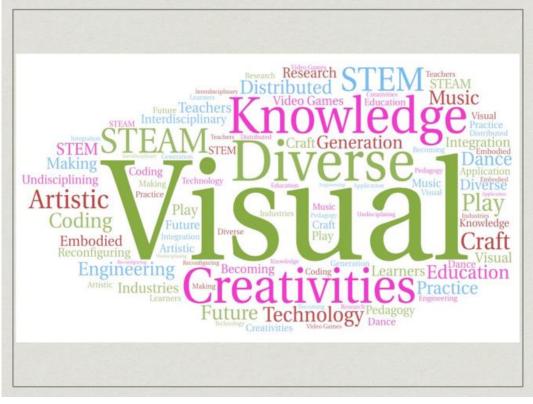
- Repositioning visuality: posthumanism, the nonhuman, the morethan-human, 'choreographic thinking', creative ecologies, ecologies of perception, and how knowledge creation transforms practice
- Reconfiguring STEM-to-STEAM: as an enactment of education reform; what we perceive-and-live through the densely articulated webs (a rhizome) of ecology between Science (scientific knowing/ being/doing) and the Arts (knowing/being/doing) = co-constitutive of new forms of professional knowledge production
- Interweaving the contribution of both arts-based and creative pedagogies to STEAM = co-constitutive of new forms of experience-knowledge
- Co constituting of new forms of inter/intraprofessional partnerships in dialogue with and embracing an ecological politics of 'collective individuation'











It is time for (re-)seeing differently Why 'each intra-action matters' (Karen

Why 'pedagogic practice-ings' matter Why 'choreographic thinking' (chunking) underlies perception (Erin)

we voice possibility
We perform
We are performed
Voicing the silenced'
Disrupting the 'same old same old'
performing the 'same old same old'
performing the 'as-yet-unknown'
improvising vulnerability' (Liz MacKinley,
mean re-mixing, re-making, re-enacting
Focusing on three forms
Referentially (processes which inscribe
ourselves as producers)
Communally (forms)

'Rejoicing in, not reducing, not afraid to let go, not afraid to take the plunge' to take risks, to create, to innovate

There is no lack of cutting-edge alternatives Outside & inside of the market and the state

Involving distributed creativity (Vlad Petre Glaveanu, 2014) new configurations of

STEM-to-STEAM. Co-constitutive of a 'third path' in schooling

'immanent relations of knowing and being is an ethical call' (Karen Barad, 2007)

HECHILD IN GAN

EMMAREAY, PHORESEARCHER UNIVERSITY OF CAVIBRIDGE EJR73@CAMLAC.UK / @EMMAJOYREAY

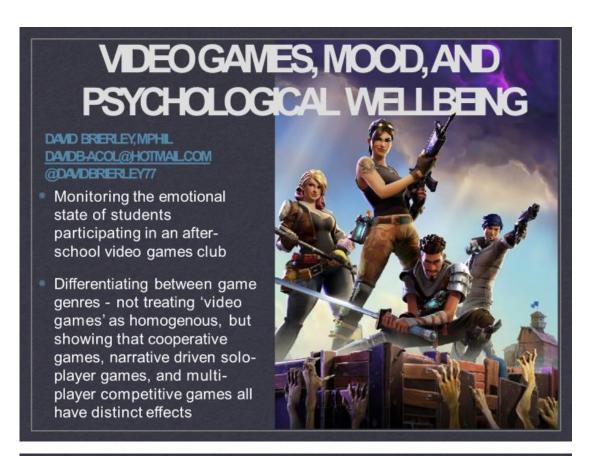
- Much has been written about childplayers, but next to nothing has been written about child-characters...
- Research project catalogues and critiques video games in which you play as a child-character or with a child-character
- How do videogames affirm or subvert ideological beliefs about children? Do digital kids in virtual spaces provide a safe environment in which we can experiment with social constructions of childhood?



Can digital kids make children 'see' themselves in new ways? Virtual children in simulated worlds point to the active construction and delimitation of 'the child' in society, and can reveal that much of what is assumed to be natural, obvious, and universal about children may in fact be ideological. It hints at the possibility that just as virtual children are used as rhetorical figures to explain and justify the rules, mechanics, and moral systems of digital games, so too is the figure of 'the child' used to routinise and vindicate the rules, workings, and moral systems of Anglo-American culture. Will video games be the medium historically associated with the emancipation of the child and the end of adult hegemony?

Video games already provide virtual spaces into which children can retreat from adult control - so maybe this is where the revolution will be staged. In this context, it **matters** whether child-characters are simply superstructural objects signifying unquestionable moral values (and if this is tempered with irony or meta-awareness) or whether they are **multidimensional subjects with agency and personhood.**

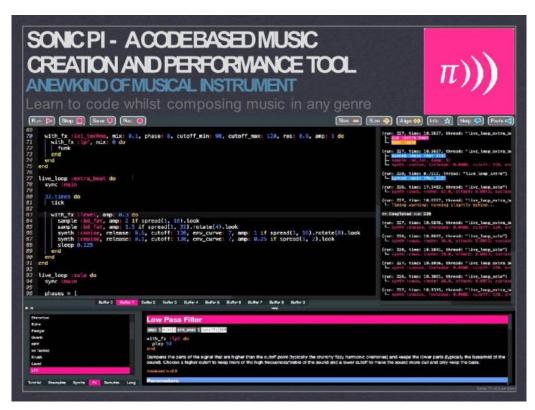




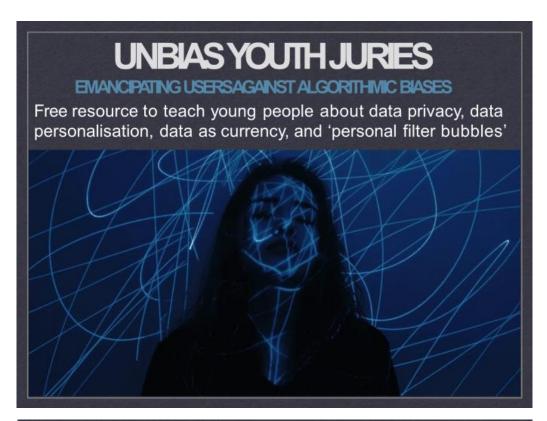








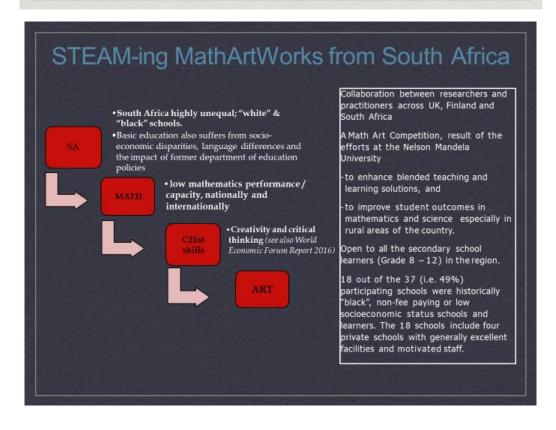


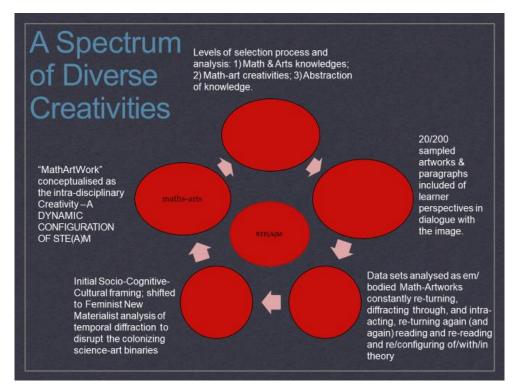


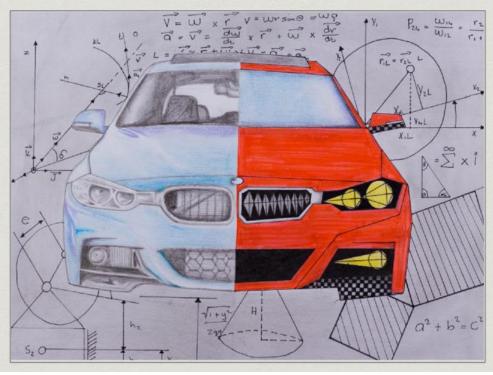


BERA Research Commission Reviewing the potential and challenges of developing STEAM education through creative pedagogies for 21st learning: how can school curricula be broadened towards a more responsive, dynamic, and inclusive form of education?

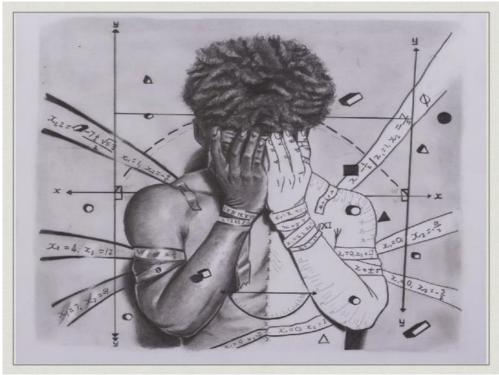
Colucci-Gray, Burnard, Cooke, & Davies (2017)

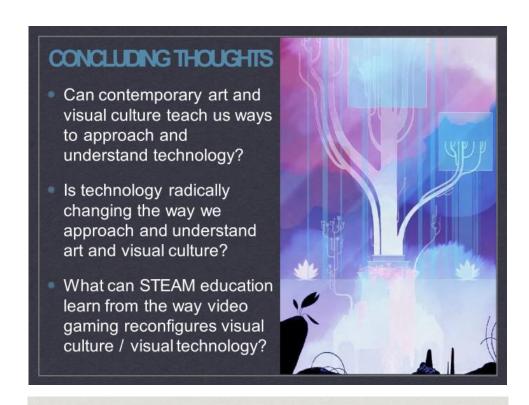












Thinking-with Erin Manning (2013)

- Repositioning visuality: posthumanism, the nonhuman, the morethan-human, 'choreographic thinking', creative ecologies, ecologies of perception, and how knowledge creation transforms practice
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- Co constituting of new forms of inter/intraprofessional partnerships in dialogue with and embracing an ecological politics of 'collective individuation'

After the keynote, Associate Professor Rikke Toft Nørgaard, Aarhus Unversity and Associate professor Stine Ejsing-Duun, Aalborg University engaged in a panel discussion with Professor Pam Burnard about the potentials and challenges in integration of arts in the STEM construction.



Panelists afterwards

7. After event at The Animation Workshop

Tour on The Animation Workshop, gathering and network



See you November 12th 2020!