



UNIVERSITY
OF OSLO

RITMO Centre for Interdisciplinary Studies in Rhythm, Time and Motion



Musikk, Data og KI
Alexander Refsum Jensenius, Director, Professor

Musikk, Data og KI



> A conference for IT experts in Strømstad, Sweden

<https://suno.com/song/d6dda064-2cef-4885-9551-635e89aff10b>



Expert Minds

tech-semi electronic

[Verse 2]

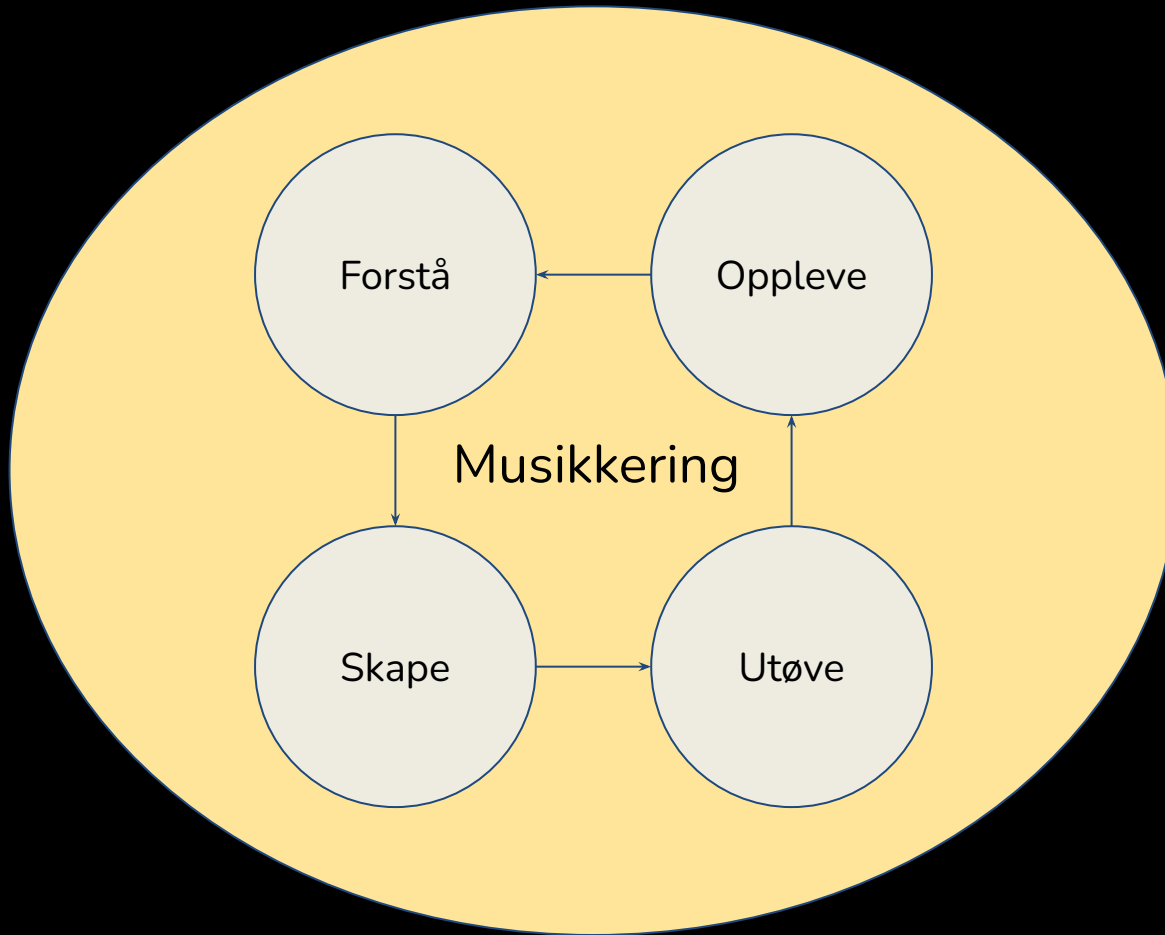
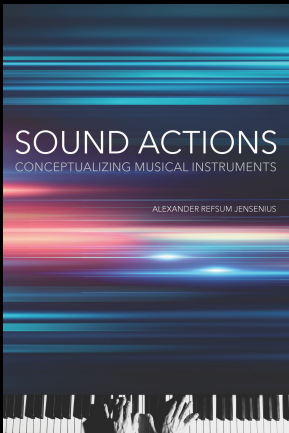
From dawn till dusk they share their craft

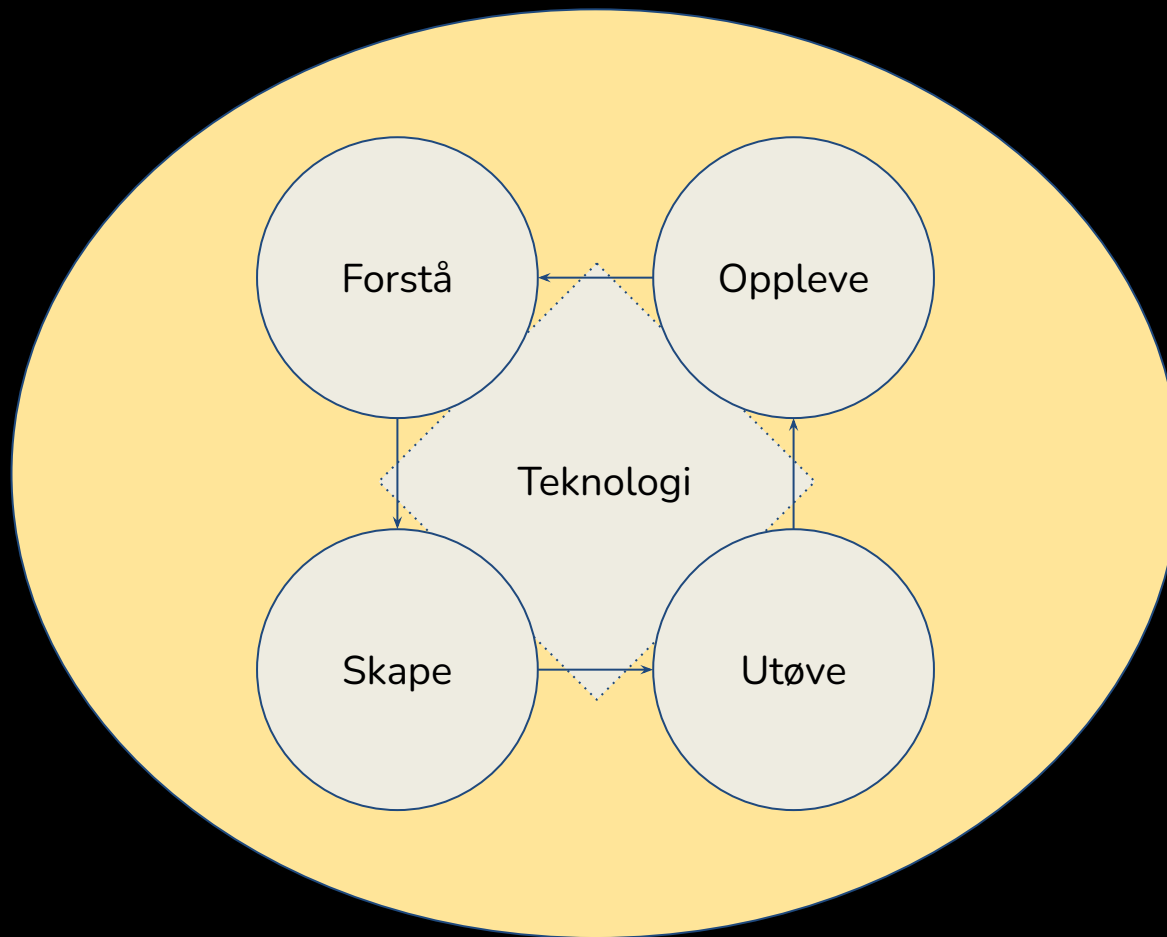
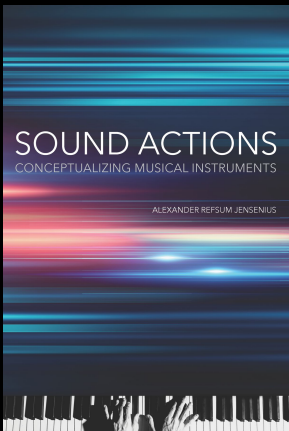
Breakthroughs on the tech's raft

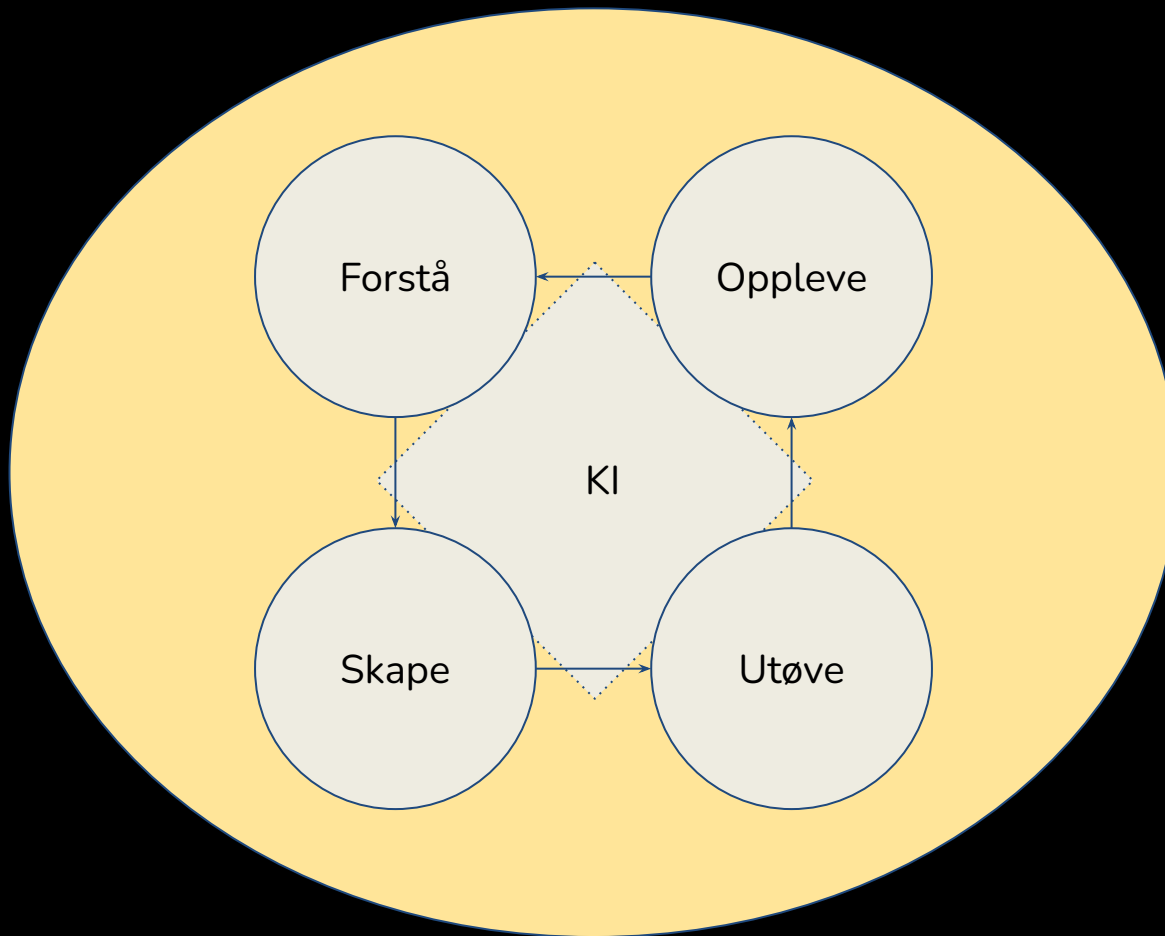
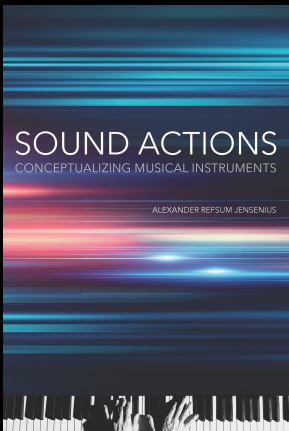
Innovation fuels the air

In this space, ideas flare

[Bridge]







Music Researcher



Lab and Centre
Director

Research Musician

Open Research
Advocate

Music Researcher



Professor of music technology



? music technology

?

Psychology



pyscho-logy

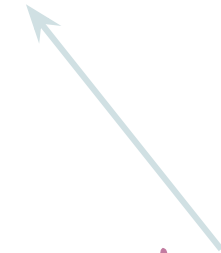


embodied mind

techno-logy



arts, crafts, tools



the study of



music-o-logy



Informatics

Musicology



RITMO Centre for Interdisciplinary Studies in Rhythm, Time and Motion



The Research Council of Norway

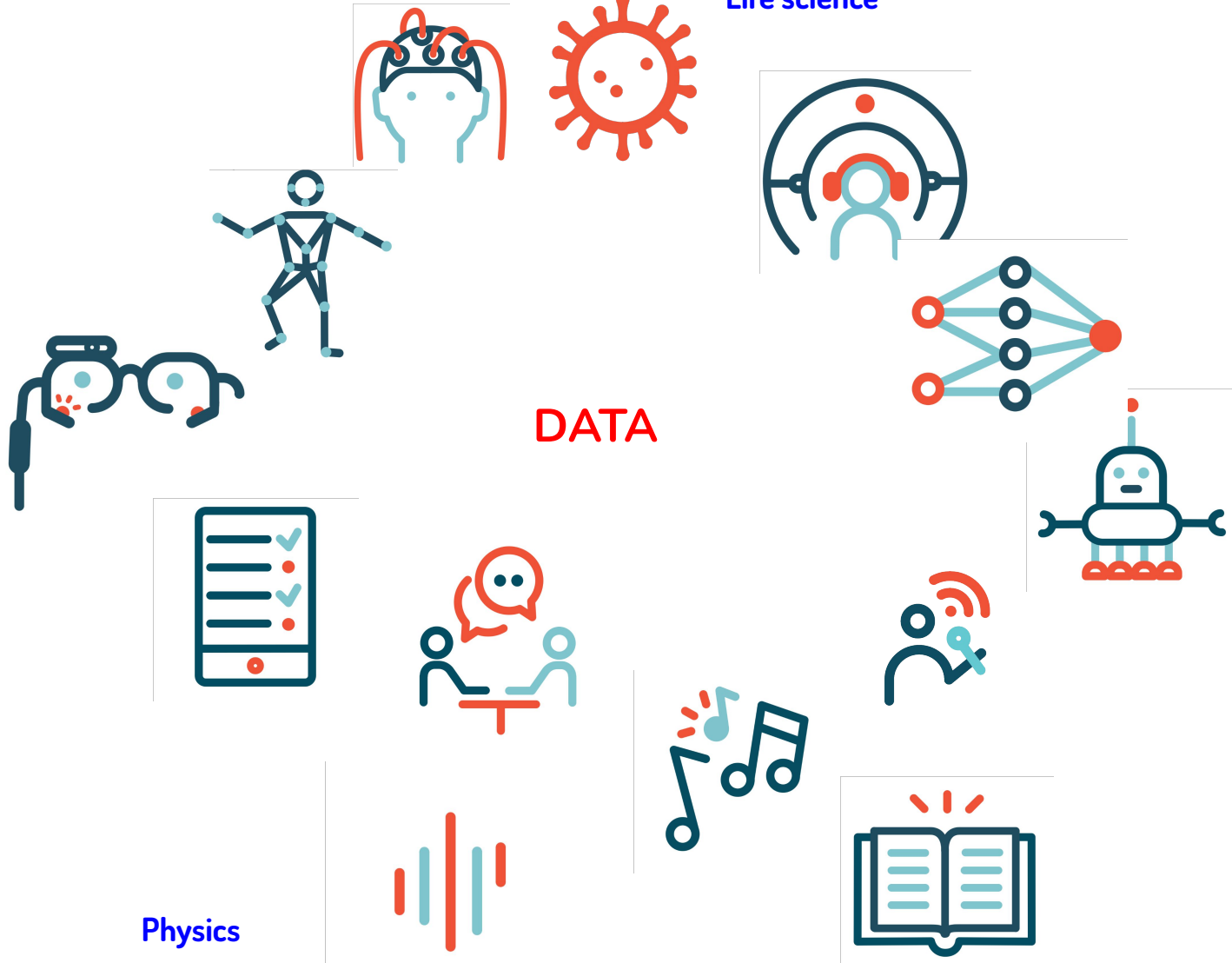


RITMO aims to expand our understanding of **rhythm** as a fundamental property of human life.

Psychology

Life science

Informatics



Physics

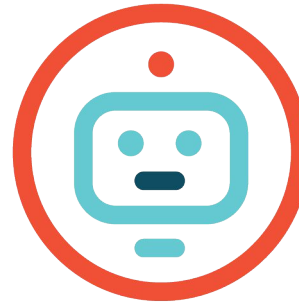
Musicology

DATA

**Interaction &
Pleasure**



**Interaction &
Robotics**



**Structure &
Aesthetics**



**Structure &
Cognition**



**Structure &
Aesthetics**







fourMs

Music, Mind, Motion, Machines









Conductor

Motion capture

Eye tracking

Interview



2023

2 rehearsals

5 concerts

2024

2 rehearsals

7 concerts

Musicians

Respiration

Heart rate

Body sway

Questionnaire

Interview

Video

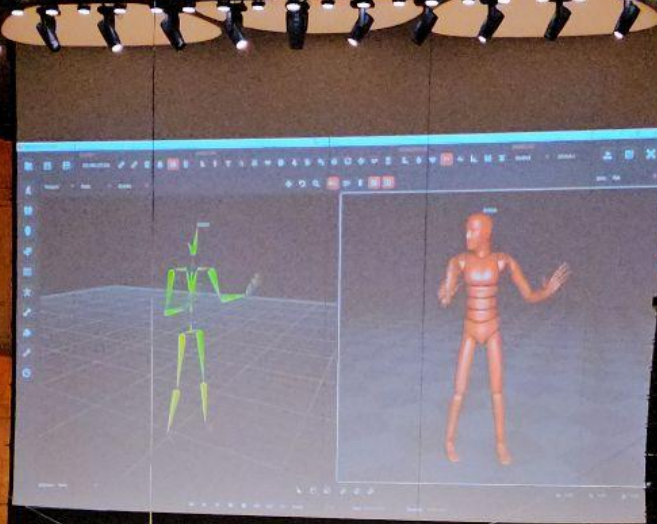
Audio

Audience

Motion capture

Questionnaire

Interview





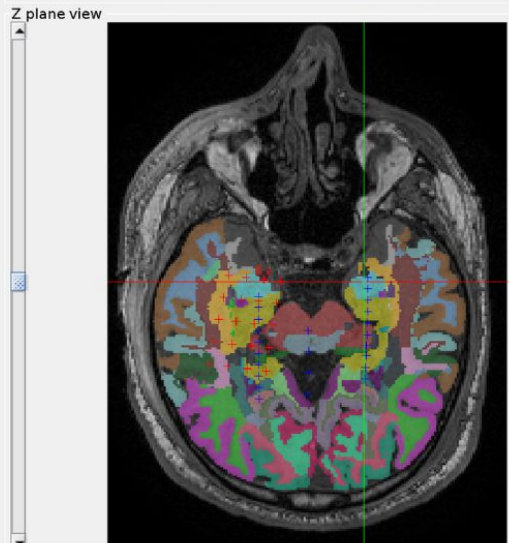
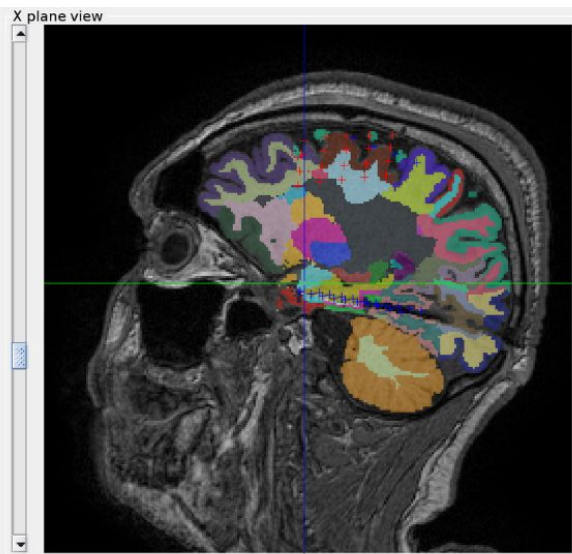
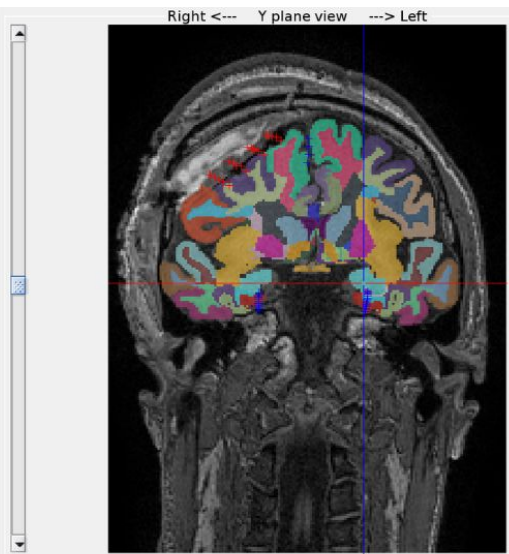
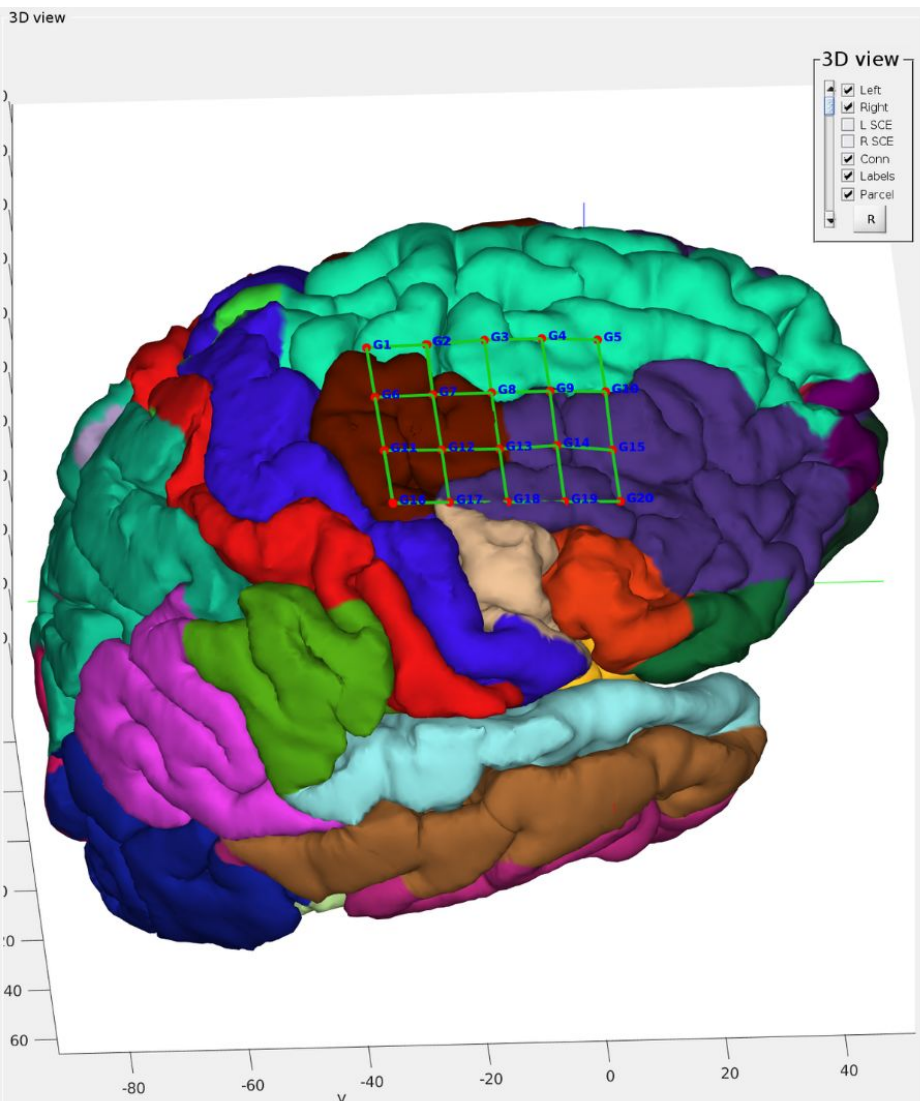


**Structure &
Cognition**





Alejandro Blenkmann: iElectrodes



Clustering

Select voxels

20 Clus

Add C Del C 0

Clear All Undo

Label electrodes

Type

Depth

Grid/Strip

Index Elec

Rows Columns

4 5

rot L rot R

flip LR flip UD

Manual Index

G Label

Label from list

2D views

Electrode array

Elec Plan Col Parc Edge

MRI

CT

Coordinates

63	130	131	Matrix coord (RAS)
-25	1	2	Anatomical coord

Left-Amygdala

Navigate electrodes

Array 5 G Elec 1 G1 Plot All One

Remove

Planning

Target Entry P New name

X	Y	Z	X	Y	Z	Prev	Next	0
0	0	0	0	0	0			

Electrode 0

Azimuth 0 Elevation 0

Frame

Left Anterior

Right Posterior

1st-2nd 0

2nd-last 0

Plot All One

Interaction &
Pleasure







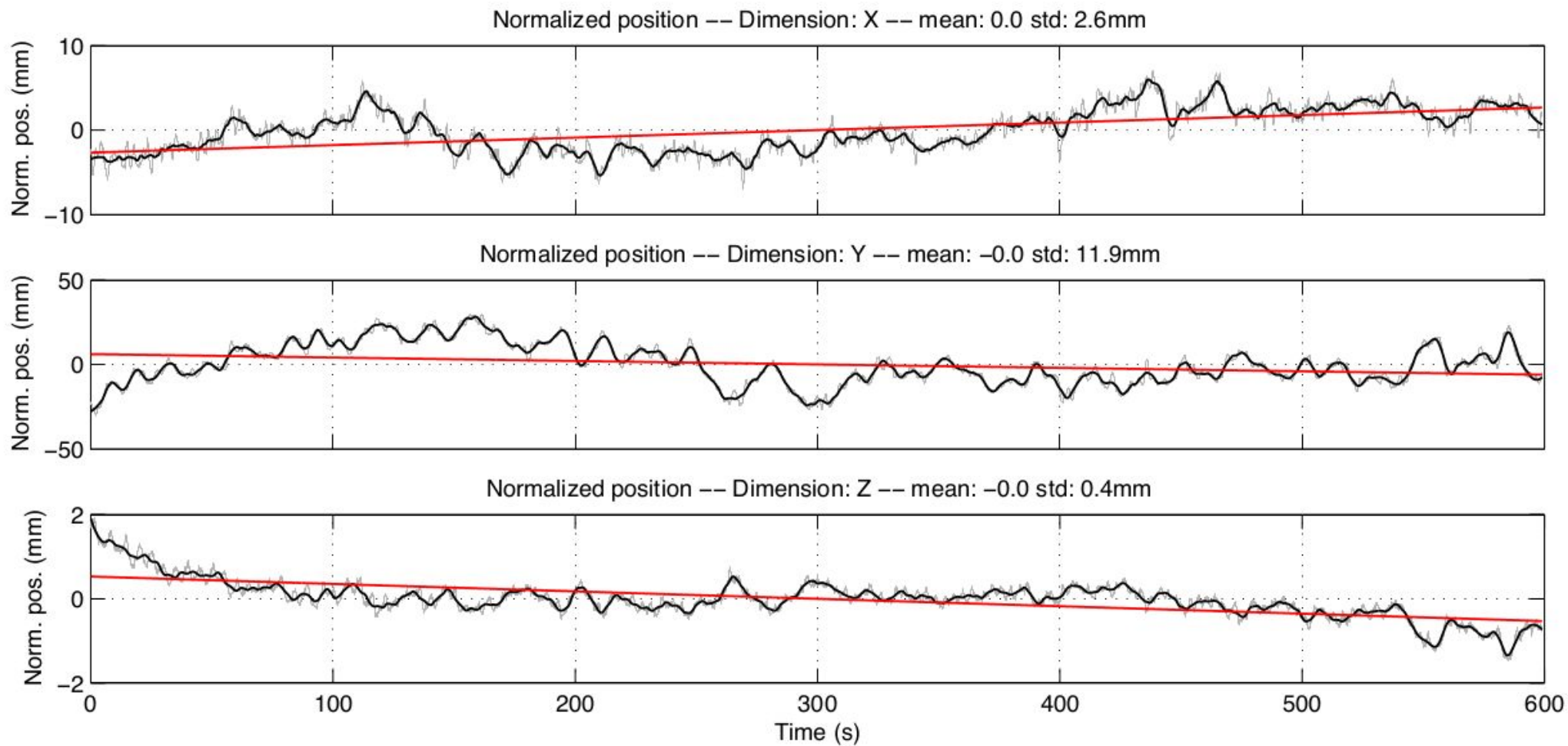


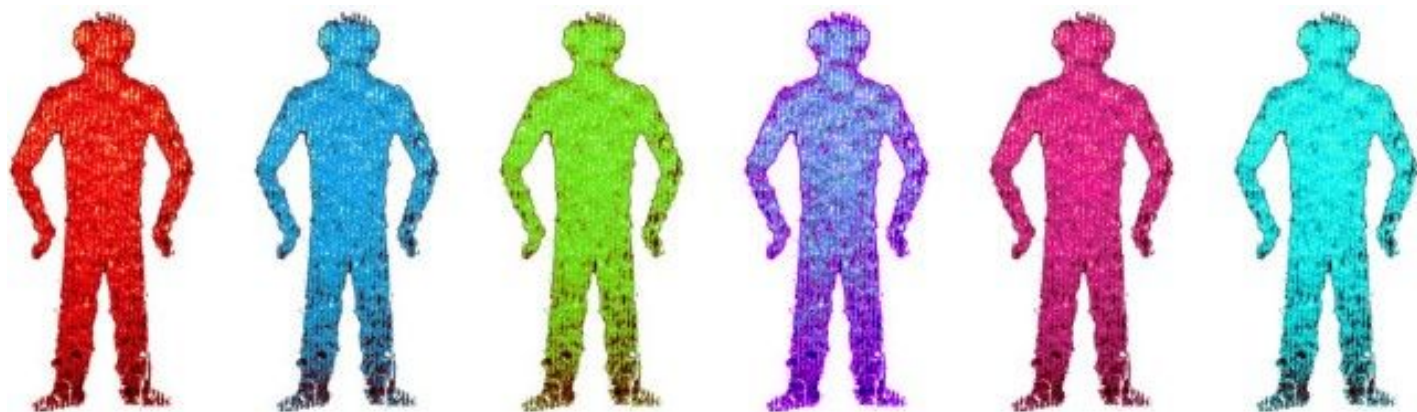


NM i Stillstand

2012-2024

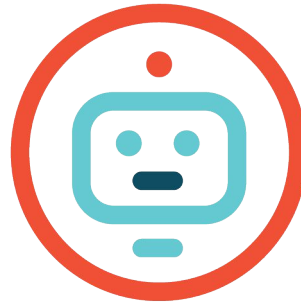






Oslo Standstill Database



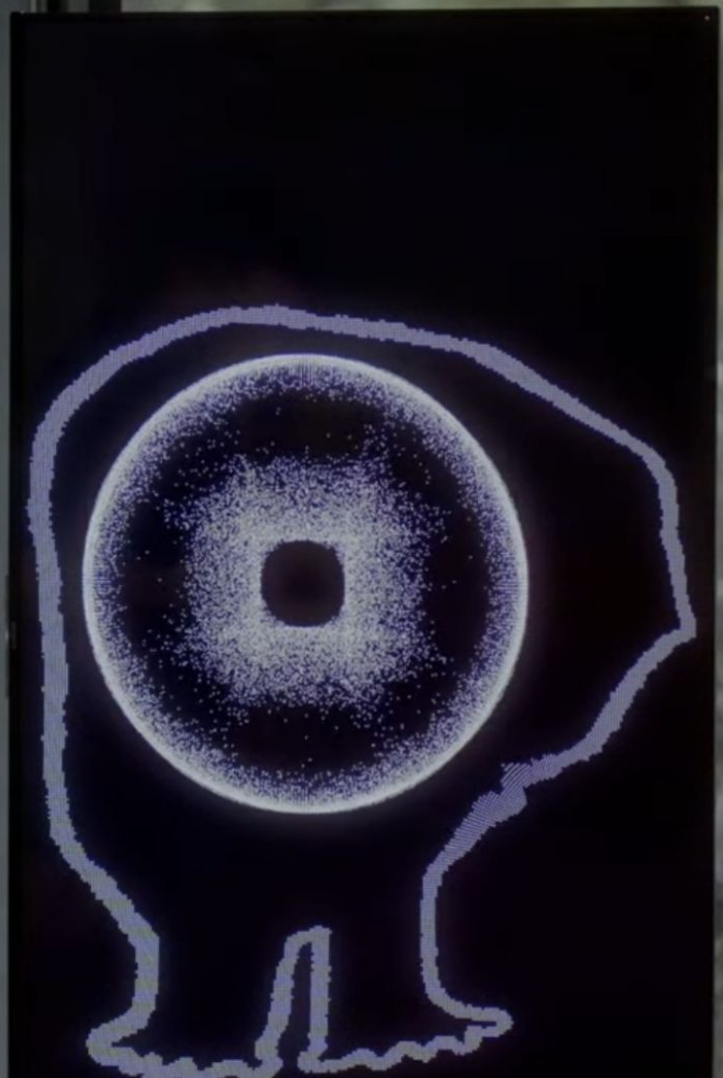


Interaction & Robotics





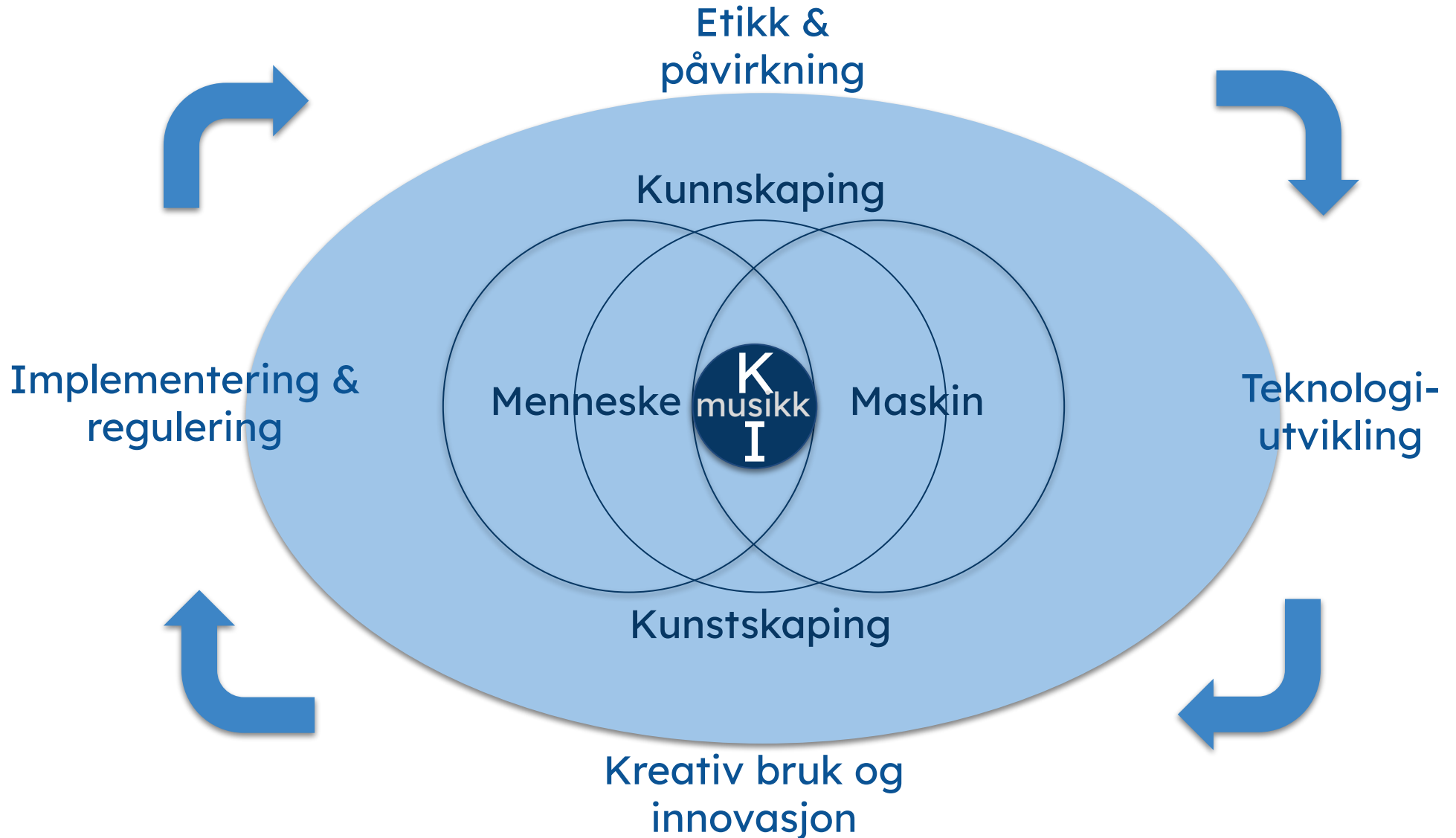






KI







Suno:

<https://suno.com/create>

Glicol:

<https://glicol.org/>

Synth.is:

<https://synth.is/>

folkRNN:

<https://folkrrnn.org/>

WAXML:

<https://hanslindetorp.github.io/WebAudioXML/demos/Holistic-MediaPipe-Control/>

Motion Capture

The art of studying complex human activity

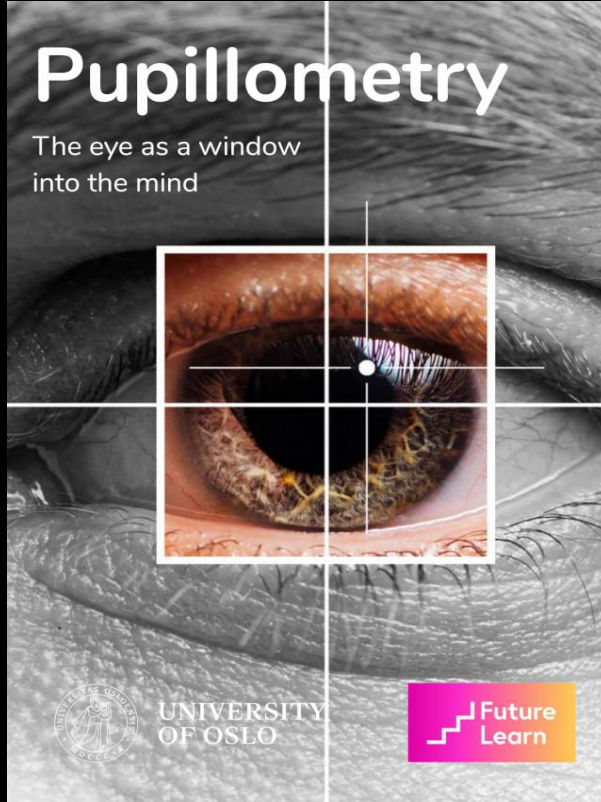


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Pupillometry

The eye as a window
into the mind



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SOUND ACTIONS

CONCEPTUALIZING MUSICAL INSTRUMENTS

ALEXANDER REFSUM JENSENIUS

