

## Christian Schwarz

 $\mathrm{H}_{\mathrm{A}}\mathrm{R}$  - Collective for Computational Arts

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#### Camera Self-Surveillance

2024 | 8-channel Algorithmic Composition for IP Cameras Materials: Surveillance Cameras, CRT-TVs, RaspberryPis Exhibited at WORM, Rotterdam

There are thousands of surveillance-cameras in the Netherlands, all collecting what can be described as "behavioural surplus data". Strangely, the cameras themselves are almost never represented in public datasets. *CSS* is an experiment to fill that dark-spot by creating an object-recognition algorithm that recognises surveillance cameras and uses them to observe one another.



#### The Netherlands (350.3MB)

2024 | Data Sonification, Algorithmic Composition for Audio and Visual Materials: 6x3m projection surface, 3-ch sound, 2-ch visuals Exhibited: V2, Rotterdam

Since 1986, the Netherlands has been divided into a map of 42 classes, ranging from "natural grass lands" and "urban built-up areas" to "potatoes", with the help of remote-sensing technology and geospatial reference-data. Developed to aid in predicting future development of The Netherlands, this highly complex system comes with the inherent limitations of computation and systems-thinking, as it compresses the entirety of the country into a data-packet of just 350,3MB (LGN2022).

The installation The Netherlands (350,3MB) is a translation of exactly these data-packets of recent decades into sound, with the goal of creating an abstract, sonic representation of the country.

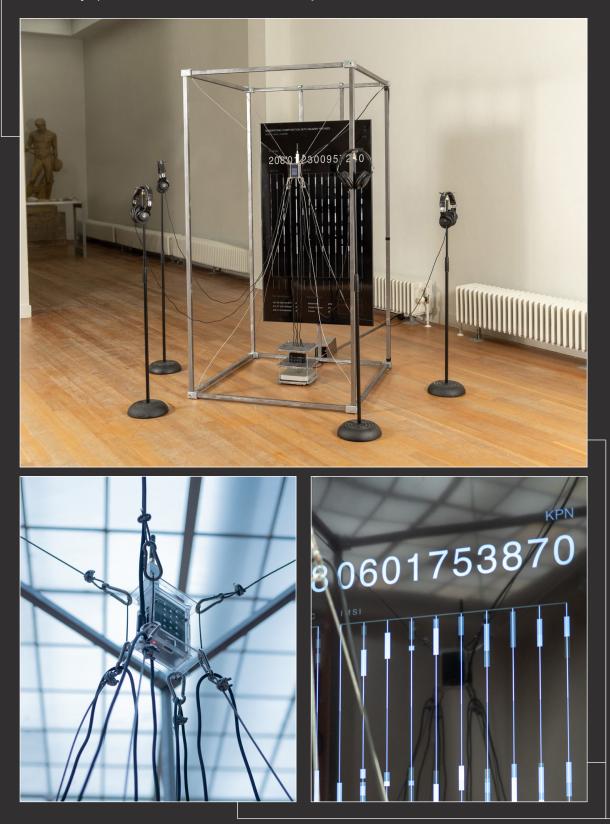
Find AV-Excerpt here.



#### Somewhere Around 900MHz

2023 | Data Sonification, Algorithmic Composition for Audio and Visual Materials: Steel frame, 70" screen, headphones, RaspberryPi, SDR, macMini Exhibiting at Nieuwe Instituut, Rotterdam

This repurposed surveillance-tool generates a sound-composition in real time, by collecting and decrypting sensitive information from nearby phones. *Find a short excerpt here*.



## SA900\_Port

**2024** | Data Sonification, Algorithmic Composition for Audio and Visual **Materials:** Panel-Antennas, 7" screen, headphones, RaspberryPi, SDR **Exhibited** at *Dutch Design Week*, Eindhoven

Portable cell-phone tower that collects data from nearby phones and turns sensitive data into a sound-composition. Continuation of research-project "Somewhere Around 900MHz".

Listen to a live-recording <u>here</u>.

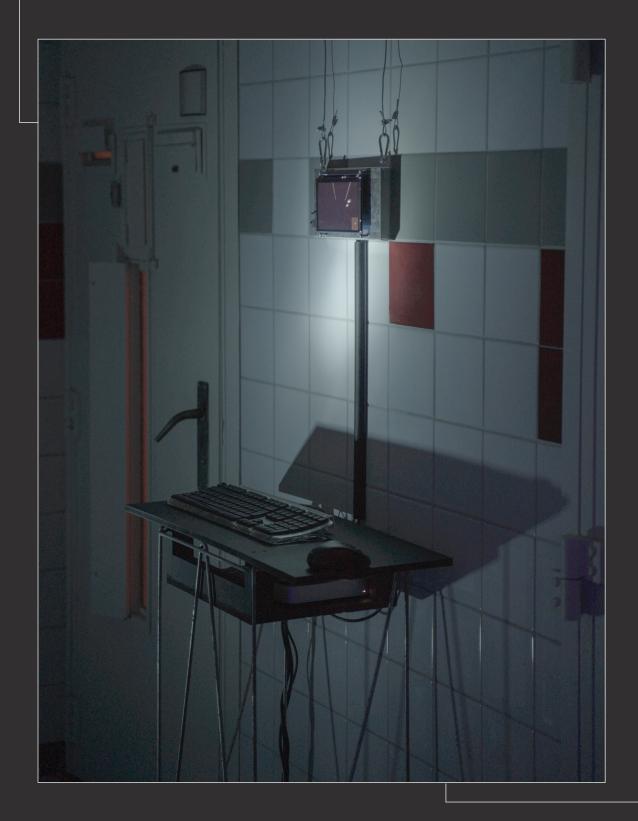


# CELL-PHONE

2023 | Interactive AV Installation Materials: Unreal Engine, 7" screen, stereo-sound, Antenna Exhibited at Uncloud Festival, Utrecht

Site-specific installation made during short residency for Uncloud Festival in the isolation cells of the former psychiatric prison.

Link to Video-Documentation

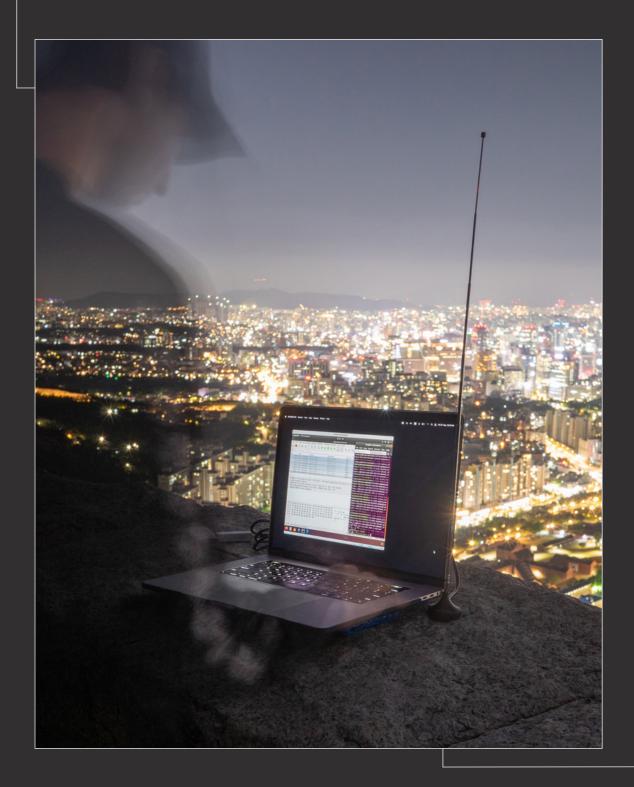


### Amateur Engagement in Advanced Technoscience

**2022** | Live-Coding-Performance, Research Project **Documentation** from *Seoul, South Korea* 

Research on adapting the practise of exploiting network vulnerabilities.

Find an excerpt from a live performance here



## Two Kids at the Adult's Table

**2022** | Furniture Design and Audio/Visual-Performance 17:30 mins, 2-channel AV **Materials:** Custom Furniture, live-coding, TouchDesigner

Documentation from Ten to Ten, Royal Academy of Arts Den Haag



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**2021** | Algorithmic Score, Kinetic Installation **Materials:** Doors, stepper-motor, transducer, arduinos **Exhibited** at *Plan-B Art Festival, Iceland* 

Composition for automated doors based on rule 30 of elementary cellular automata.

Video Documentation from Sketch





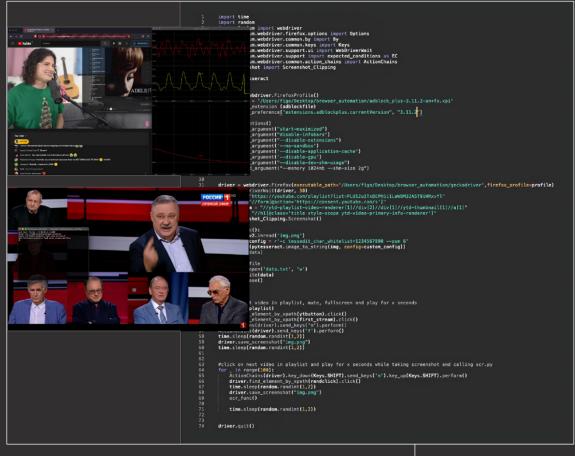
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#### 2021 | AV-Performance Materials: Custom automation software, PureData, 2-channel audio

Python-script that runs through current YouTube livestreams, analyses the visual output and interprets it as audio data.

Find short video documentation here



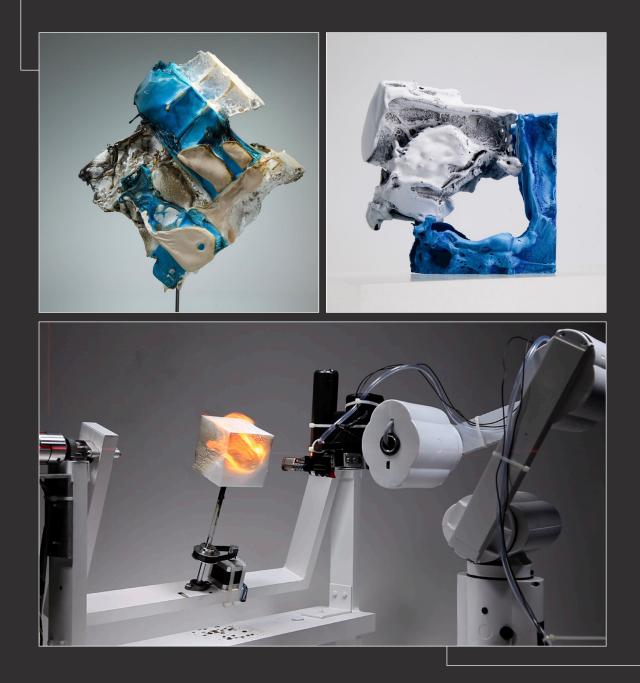


### No Growth Without Erosion

**2021** | Autodestructive Research, assisting Aldo Brinckhoff **Role:** Programmer, Composer

Researching on automated erosion by melting extruded polystyreen (XPS) in an highly precise automated setup. By changing distance, path and movement speed of the burner we examined different results.

Link to video documentation

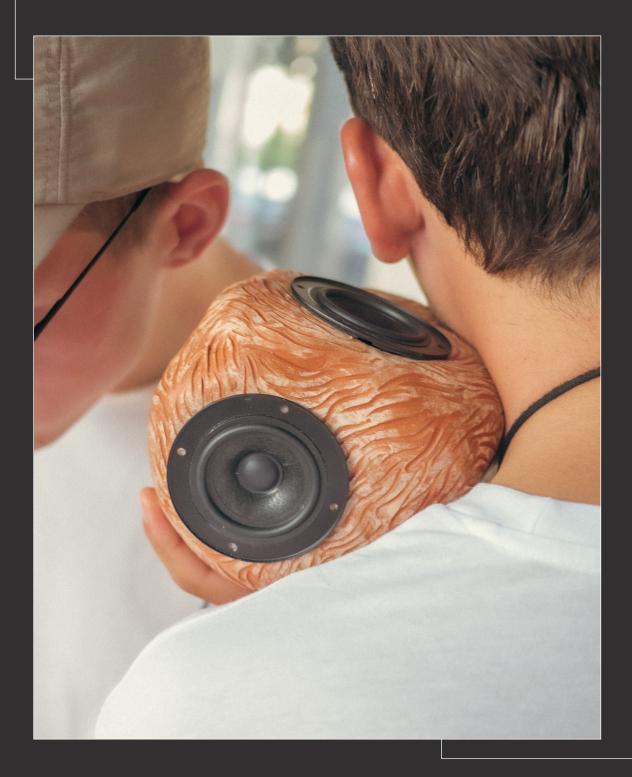


## Invisibility of Non-Location

**2022** | Algorithmic Composition **Materials:** Custom speakers, 2-channel sound Documentation from **[inside the geofence]** Vienna, Austria

Algorithmic sound-piece composed for custom speakers and audiowalk of Silke Riis and Silja Beck at University for Applied Arts Vienna.

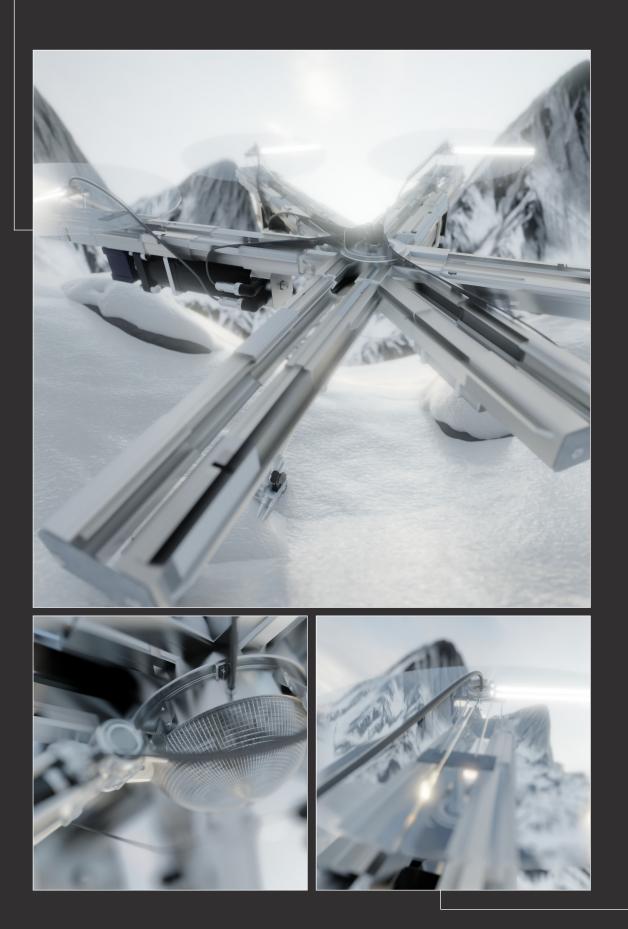
<u>Video Documentation</u>



# Imaginary Lines

### 2022 | Digital Sculpture for Augmented Reality

Documentation from AR Exhibition in Tokyo, Japan





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