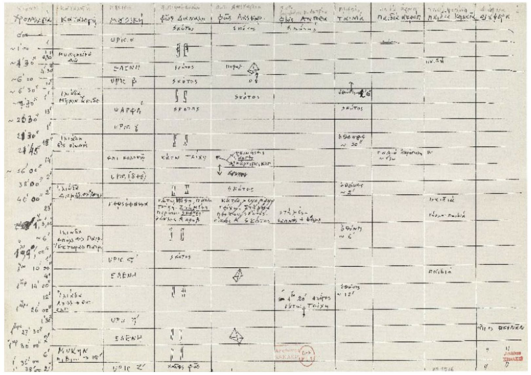
Spring Portfolio (Please watch video first)

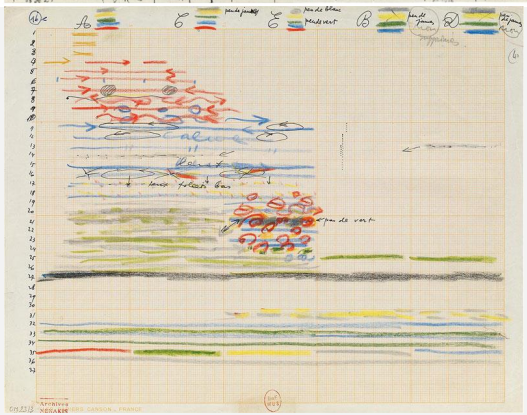
https://www.youtube.com/watch?v=udu4CegpiIc

MACHINE KNITTING
Swatches and techniques

Inspired by graphic scores and sound synthesis

Graphic scores

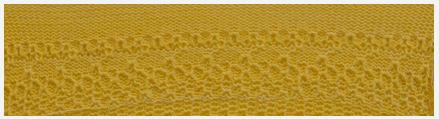


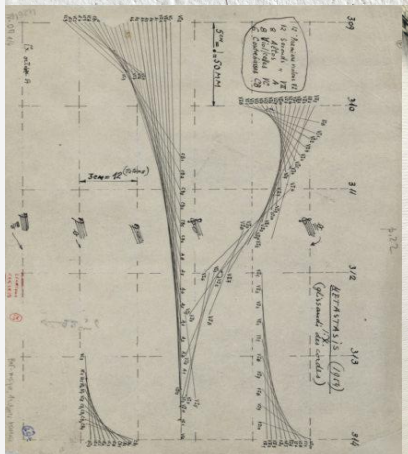


Atmospheric stripes, plating feeder, eyelets and ladders

MACHINE KNITTING

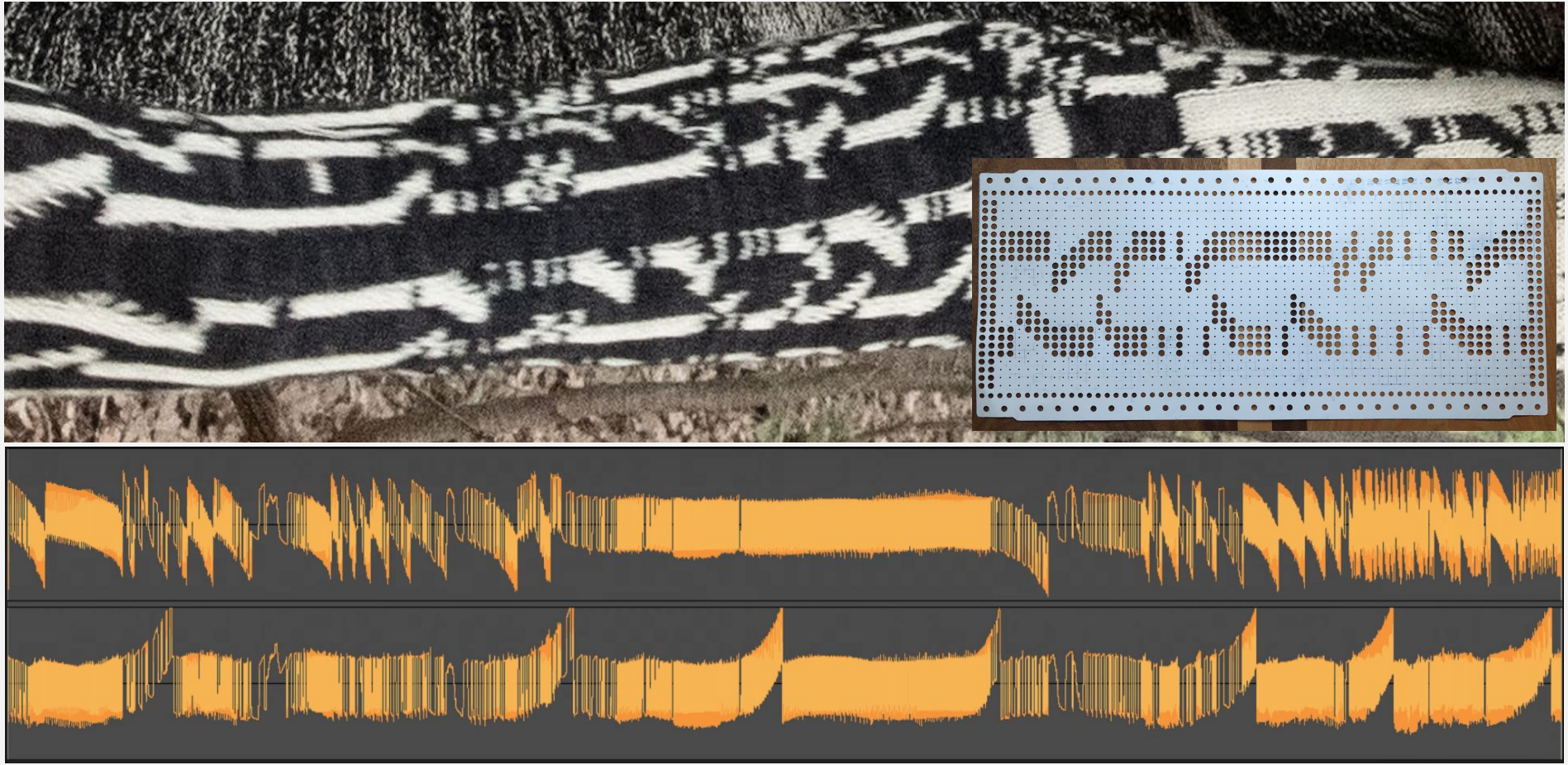
Vertical transfer, shaping and tuck stitch



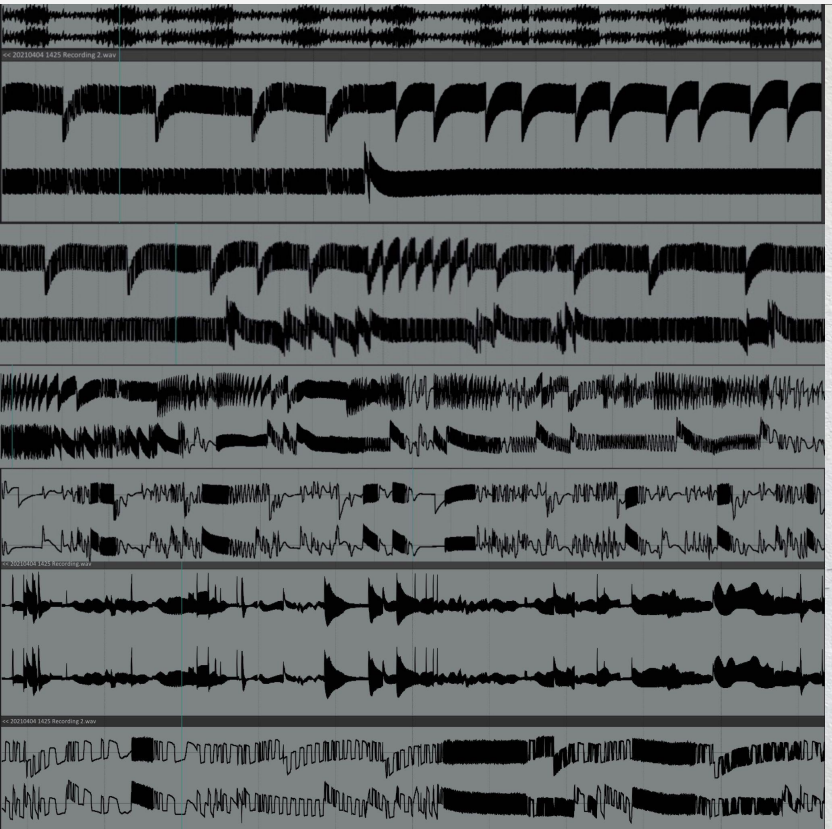


MACHINE KNITTING

Punch card

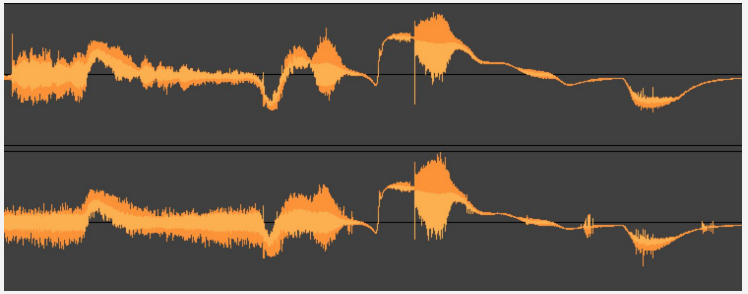


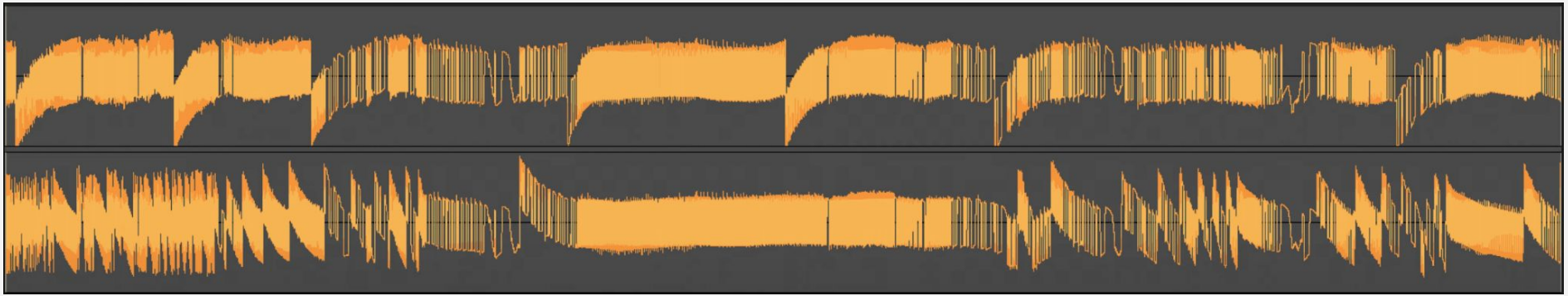
MACHINE KNITTING
Garment



MACHINE KNITTING

Garment





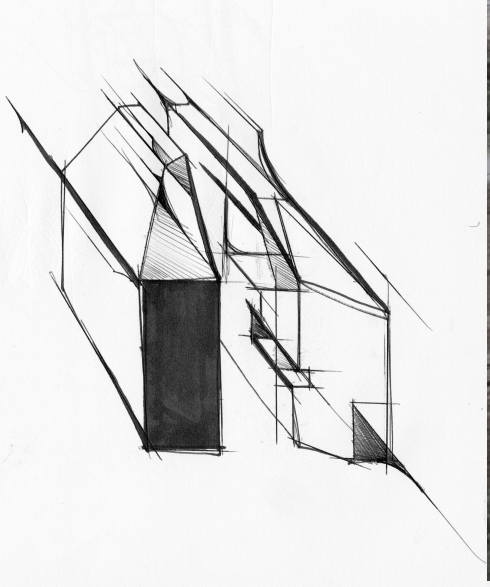
MACHINE KNITTING
Garment

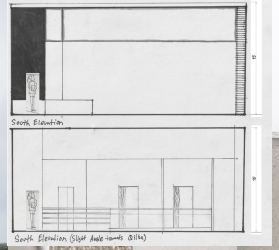
MACHINE KNITTING
Garment

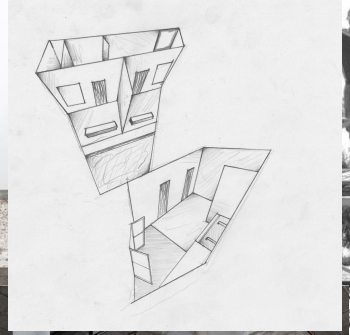
FABRIC SILKSCREENING
MUSEUM PRINT

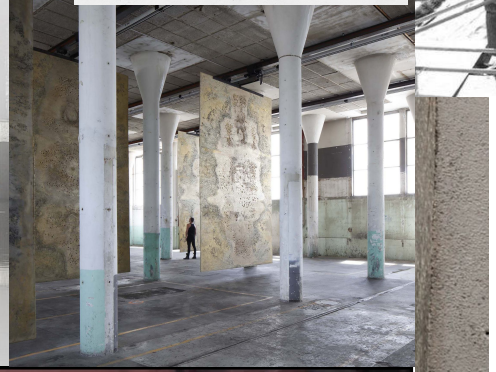
Bunker 599 “New Dutch Waterline”
RAAAF + Atelier Lyon
2010

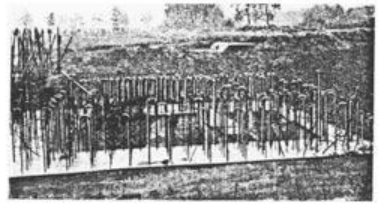
Diefdijk 5, 4122 KP Zijderveld, Netherlands

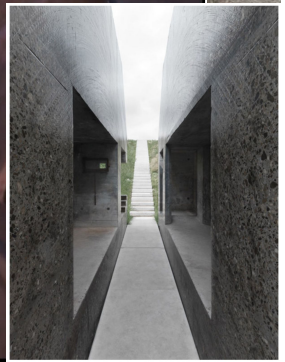


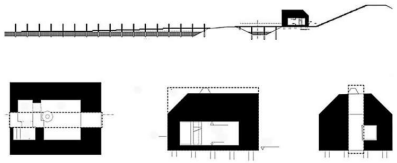






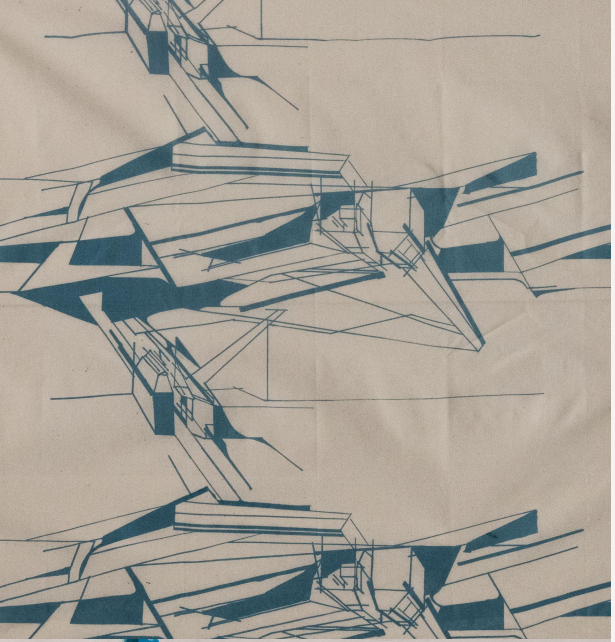


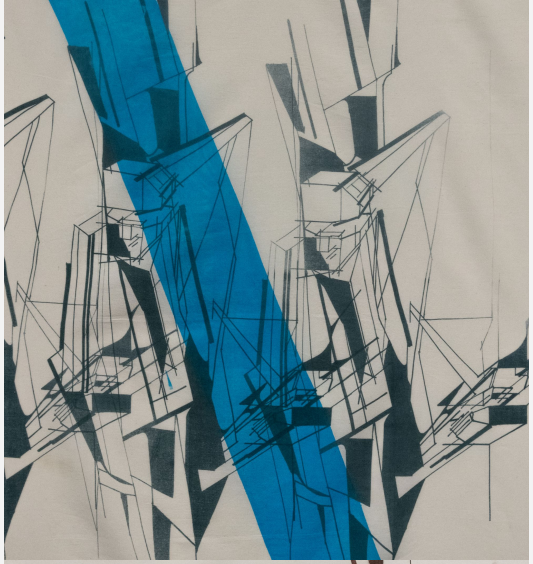


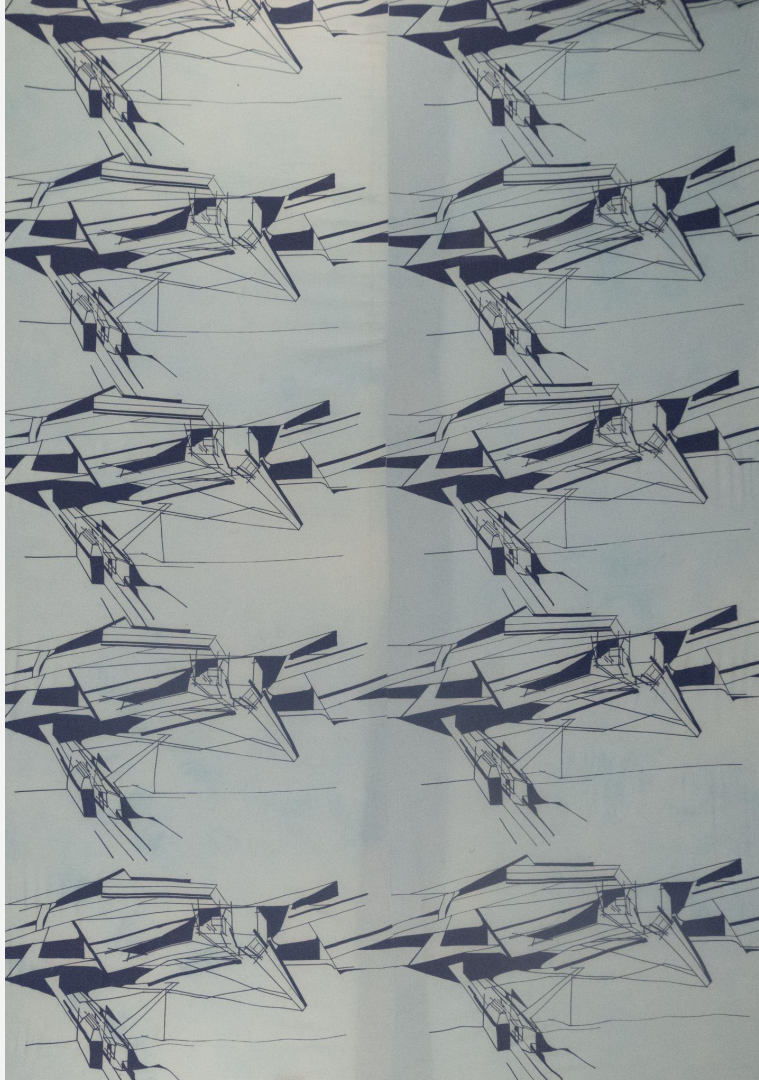


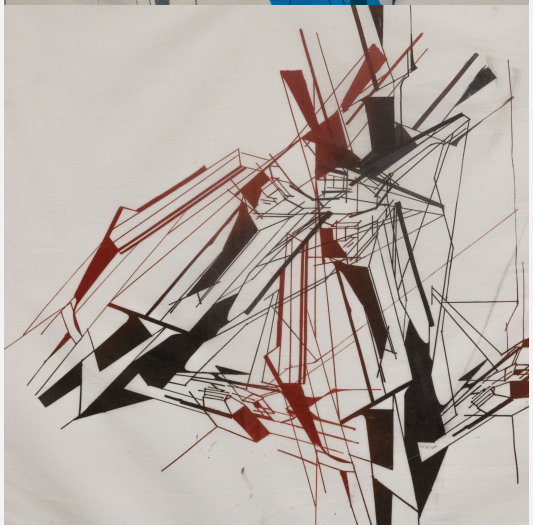
Plattegrond

Lengte doorsnede

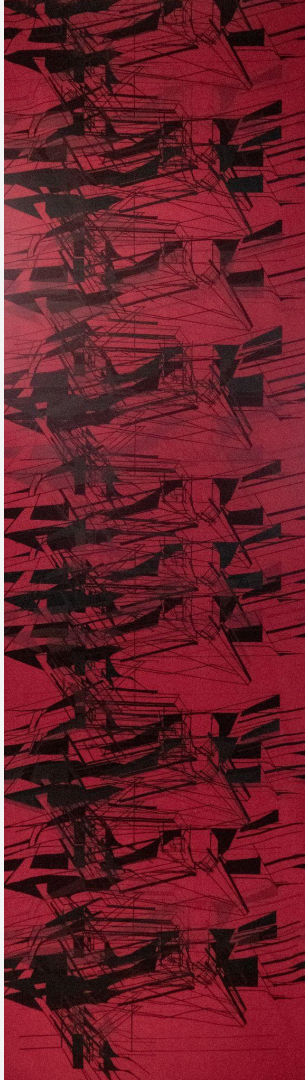




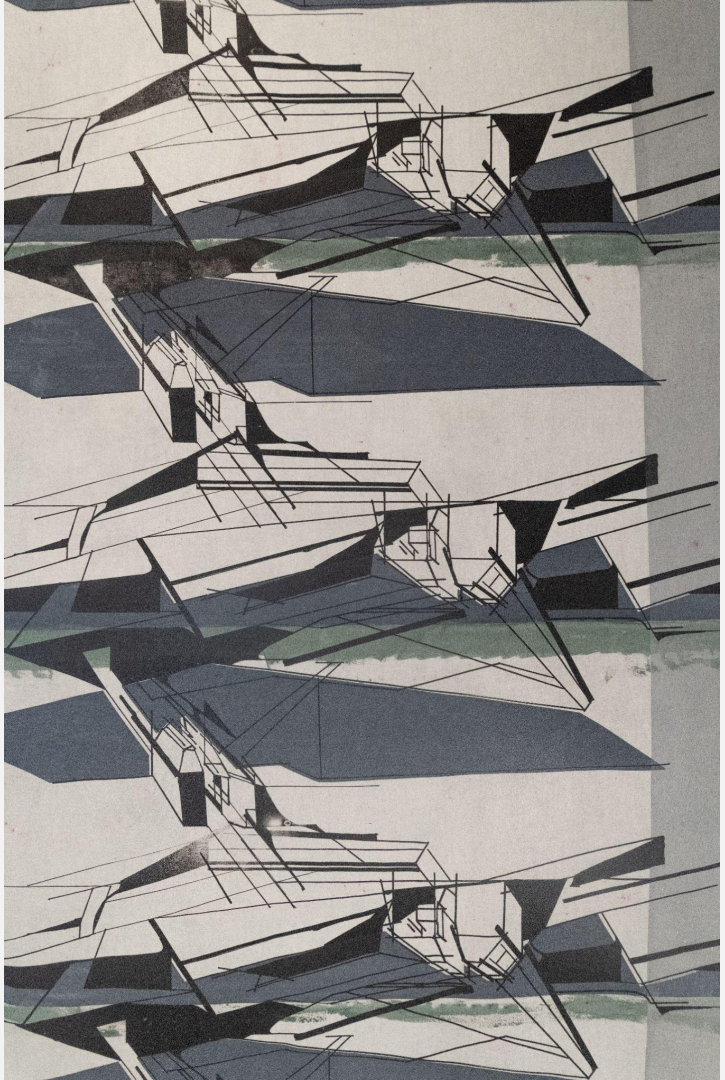




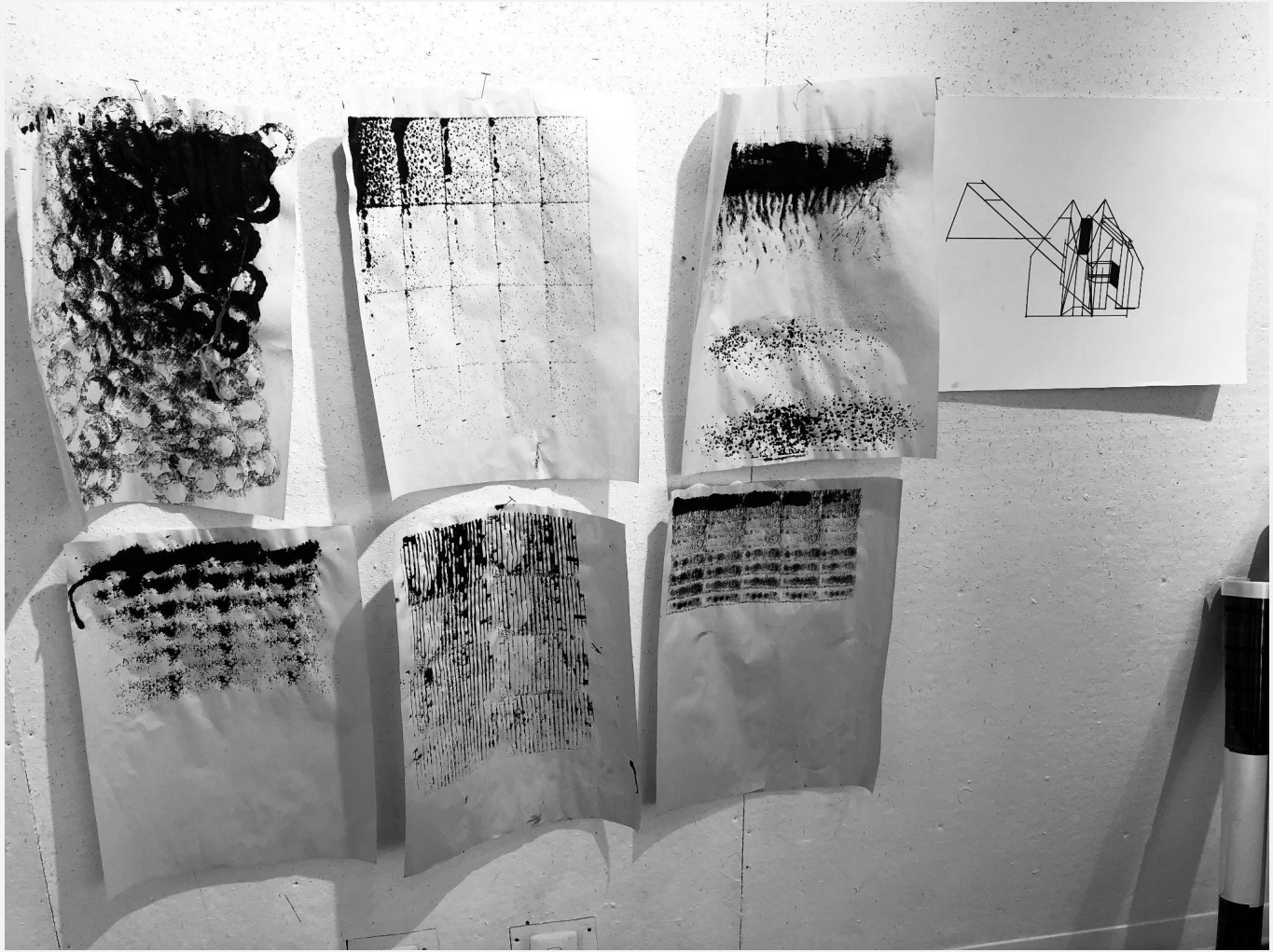
FABRIC SILKSCREENING
MUSEUM PRINT



FABRIC SILKSCREENING
MUSEUM PRINT FINAL



FABRIC SILKSCREENING
ENGINEERED PRINT



FIBERS AND DYING

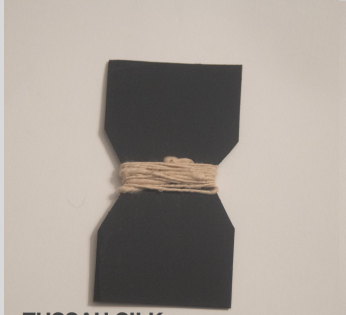
Assignment 1

MARTIN'S HAIR

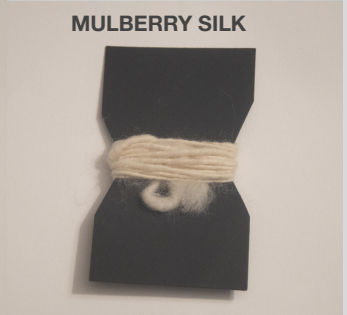
PROTEINS

MOHAIR

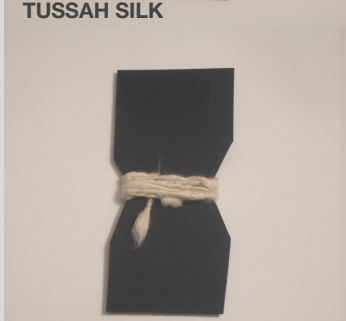
MULBERRY SILK



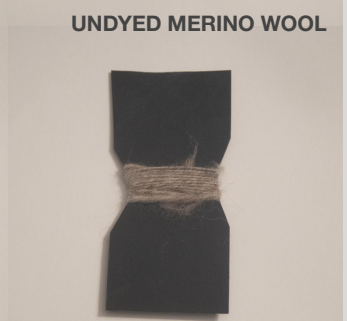
TUSSAH SILK



UNDYED MERINO WOOL

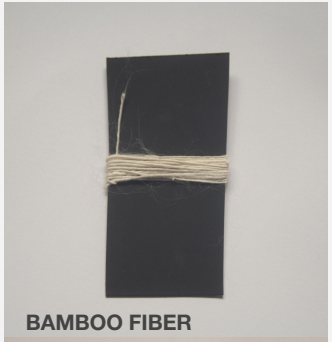


ROMNEY TOP

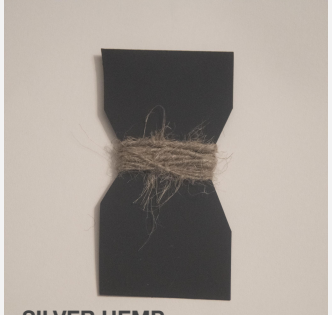


SILVER ALPACA

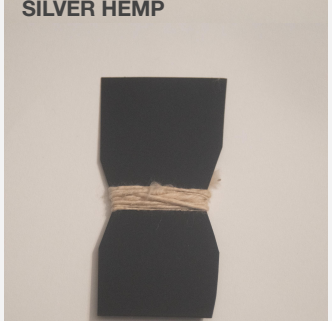
CELLULOSE



BAMBOO FIBER



SILVER HEMP



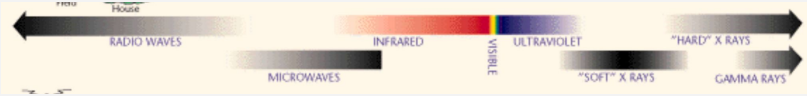
UNPROCESSED COTTON

FIBERS AND DYING

Assignment 1

Inspired by the electromagnetic spectrum and waveform of dmft (dial up) tones. Translating digital waveforms into organic blends of fibers is a conversation between the synthetic and organic.

Designing blends of yarn for use in sound absorption panels in terms of application



INFRARED
BAMBOO FIBER + (TUSSAH SILK + UNPROCESSED COTTON)

DMFT
MARTINS HAIR + (BAMBOO FIBER + UNPROCESSED COTTON)

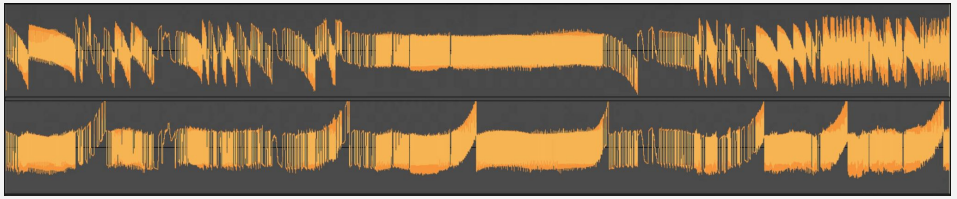
ULTRAVIOLET
DYED WOOL + (HEMP + BAMBOO FIBER)

FIBERS AND DYING

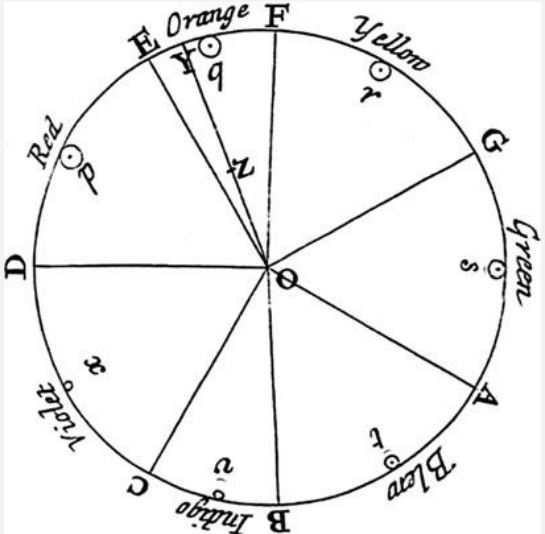
Assignment 2

Translation of Sound into Color and Texture

Audio Waveforms. Visualization of the the amplitude of audio over time.



Newton's Color Theory as a system for translating sound into color and creating sound from color.
This diagram translates musical notes A-G into colors.



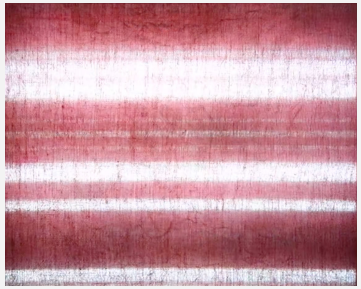
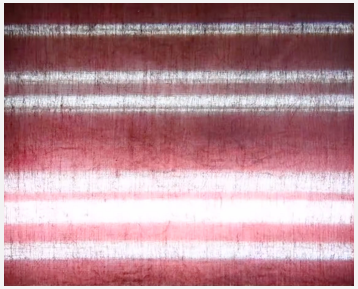
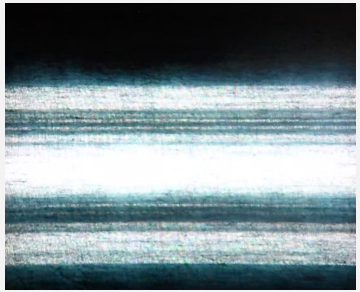
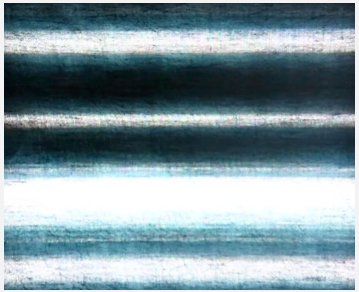
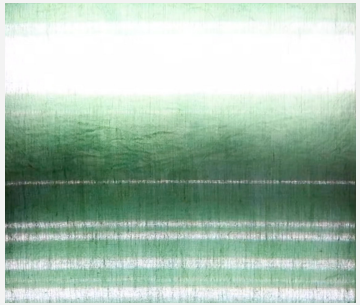
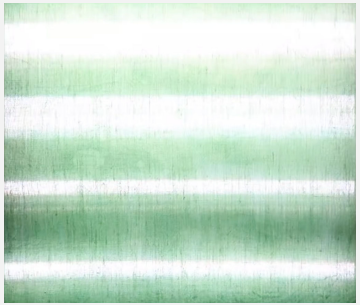
Ryoji Ikeda
Data-matrix visualizations and visualizing oscillations
Translating sound into oscillations of lines. Higher frequencies produce more lines

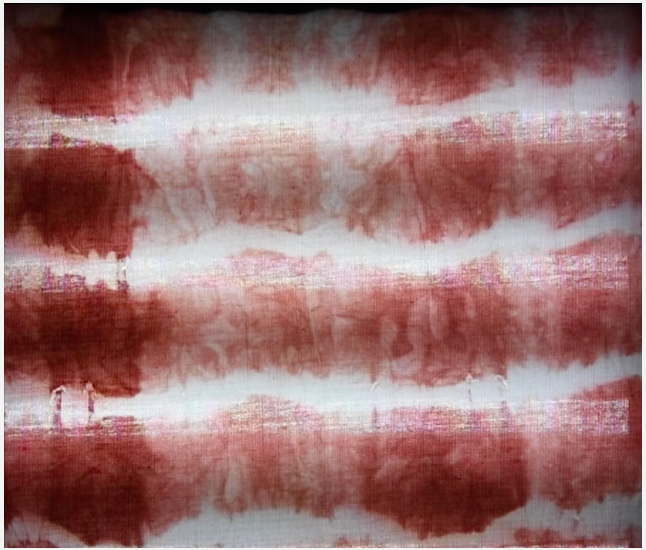
FIBERS AND DYING ASSIGNMENT 2

Translating sound into color and pattern into sound using Newton's Color Theory and video synthesis.

FIBERS AND DYING ASSIGNMENT 2

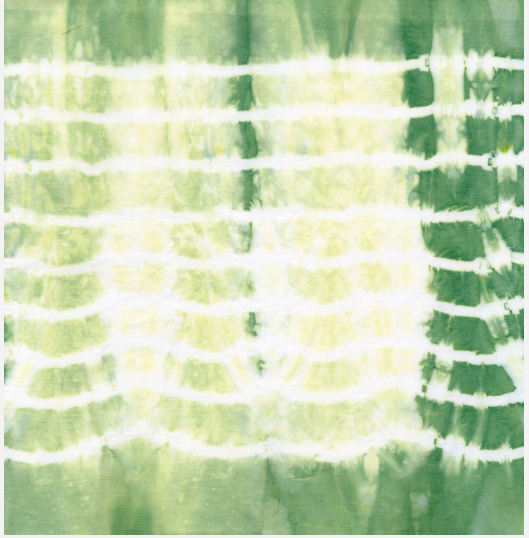
Translating sound into color and pattern into sound using Newton's Color Theory and video synthesis.

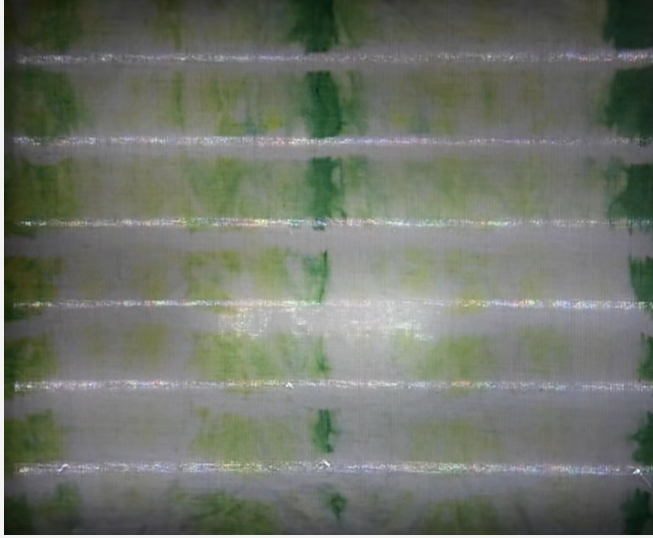







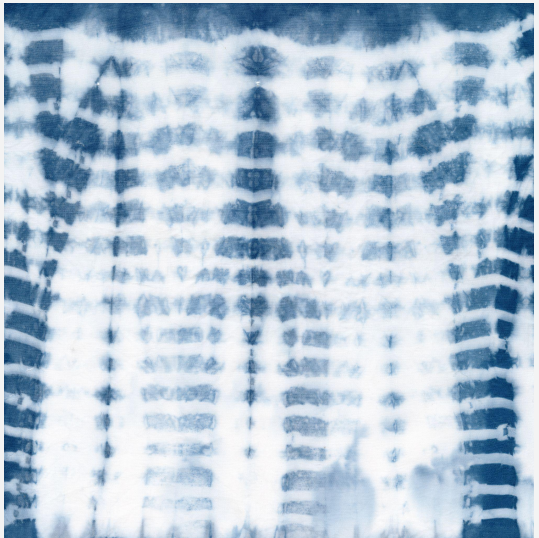
The ties on the red sample translated to the note A in the 3rd octave.

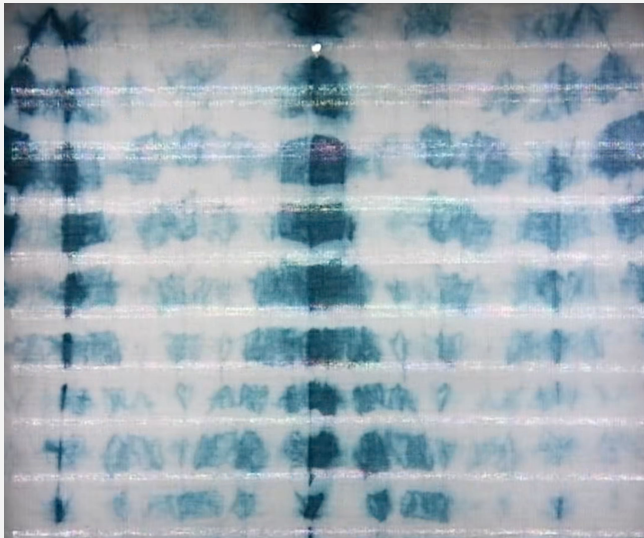
The ties on the green sample translated to the note A in the 3rd octave.





The ties on the blue sample translated to the note F in the 3rd octave.





Here I represented RGB by dying a yarn blend of Martin's hair, tussah silk and unprocessed cotton. I used MX dyed and table dyed this sample.

FIBERS AND DYING ASSIGNMENT 2

Here Im using various dyed wools and the wet felting technique to mimic felt made out of compost or recycled materials. In previous research I now know various types of wool and felt can have sound dampening characteristics. An appropriate application for using either organic sheeps wool (of which there is an excess of at the moment) or recycled materials turned into felt, is sound absorption panels, as they are made up of layers of wool. The holes in this particular felt sample will add space between layers as to not make the layered felt too dense, which would reflect sound instead of absorb it. This would also be a much more sustainable way of manufacturing sound absorption panels.