

**portfolio\_2022**

FORENSIS

Assistant Researcher

Application



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# Data Mining Google Streetview

San Pedro de Atacama, Chile

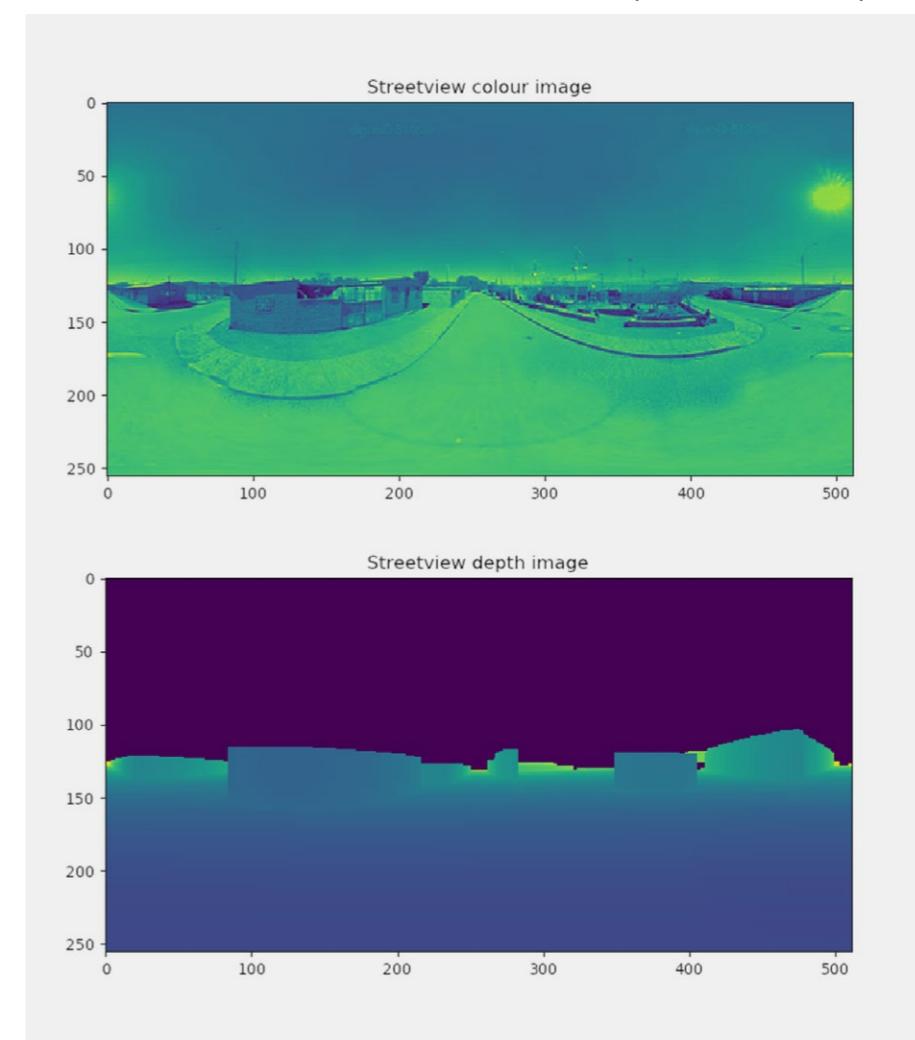
Master Thesis

2021



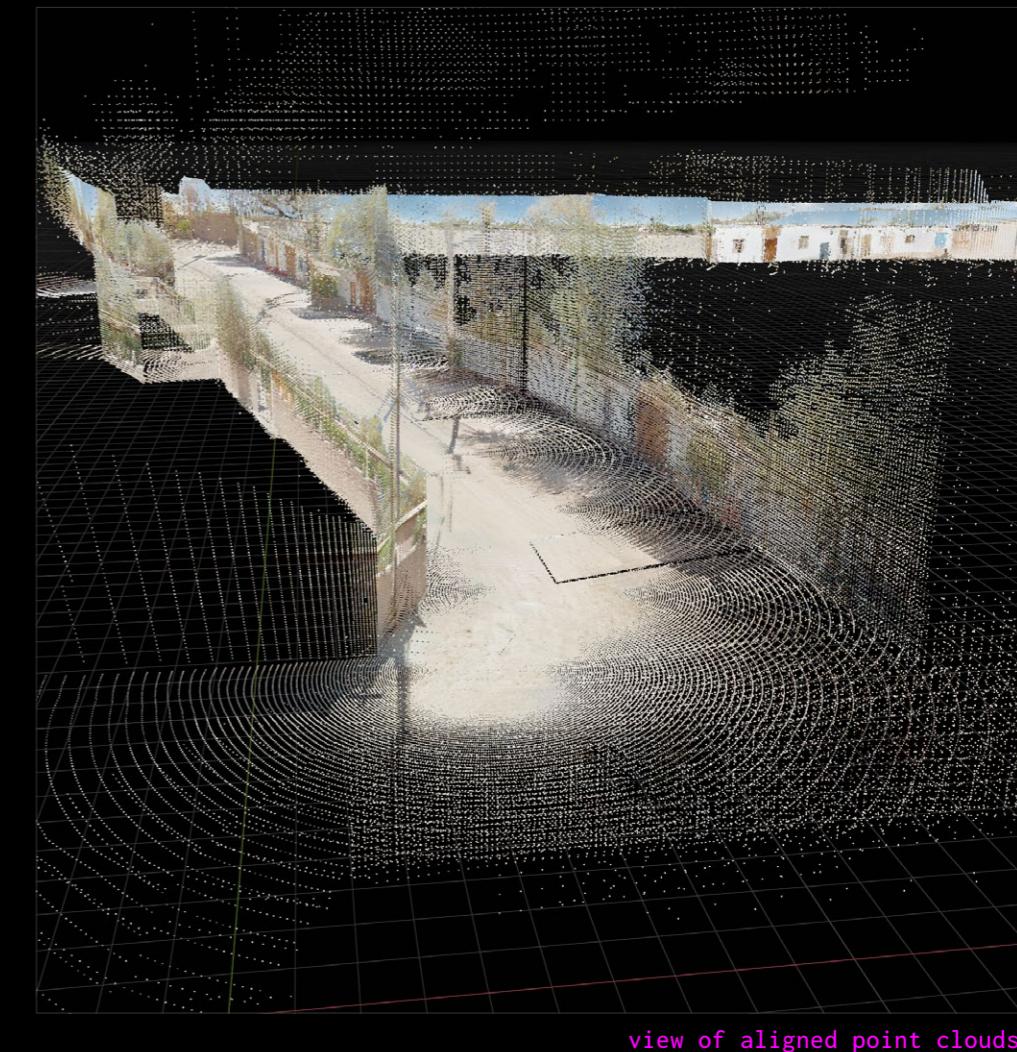
Google Streetview coverage in the  
desert oasis of San Pedro de Atacama

depth image extracted from Google  
Streetview and processed with openCV



A small amount of low-resolution 3D point cloud data is hidden within the XML of each Google Streetview panorama

With the assistance of several open source utilities, I was able to extract this latent data and construct a sparse 3-dimensional representation of the tourist high street in San Pedro de Atacama



view of aligned point clouds

This project represents a rudimentary reconstruction of the vast database of 3D scanned data that Google refuses to make publicly available and even compresses and obfuscates within the Google Streetview platform

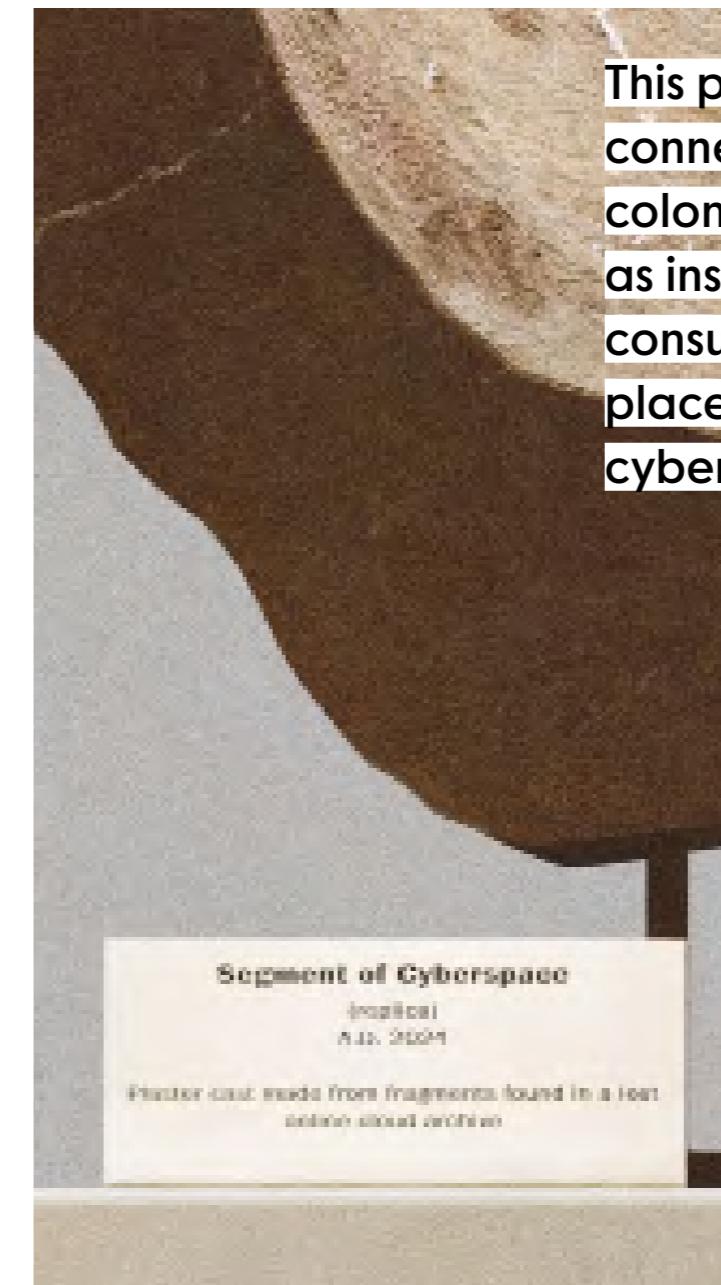
# Cyberspace Colonialism

Atacama Desert, Chile

Master Project  
2020



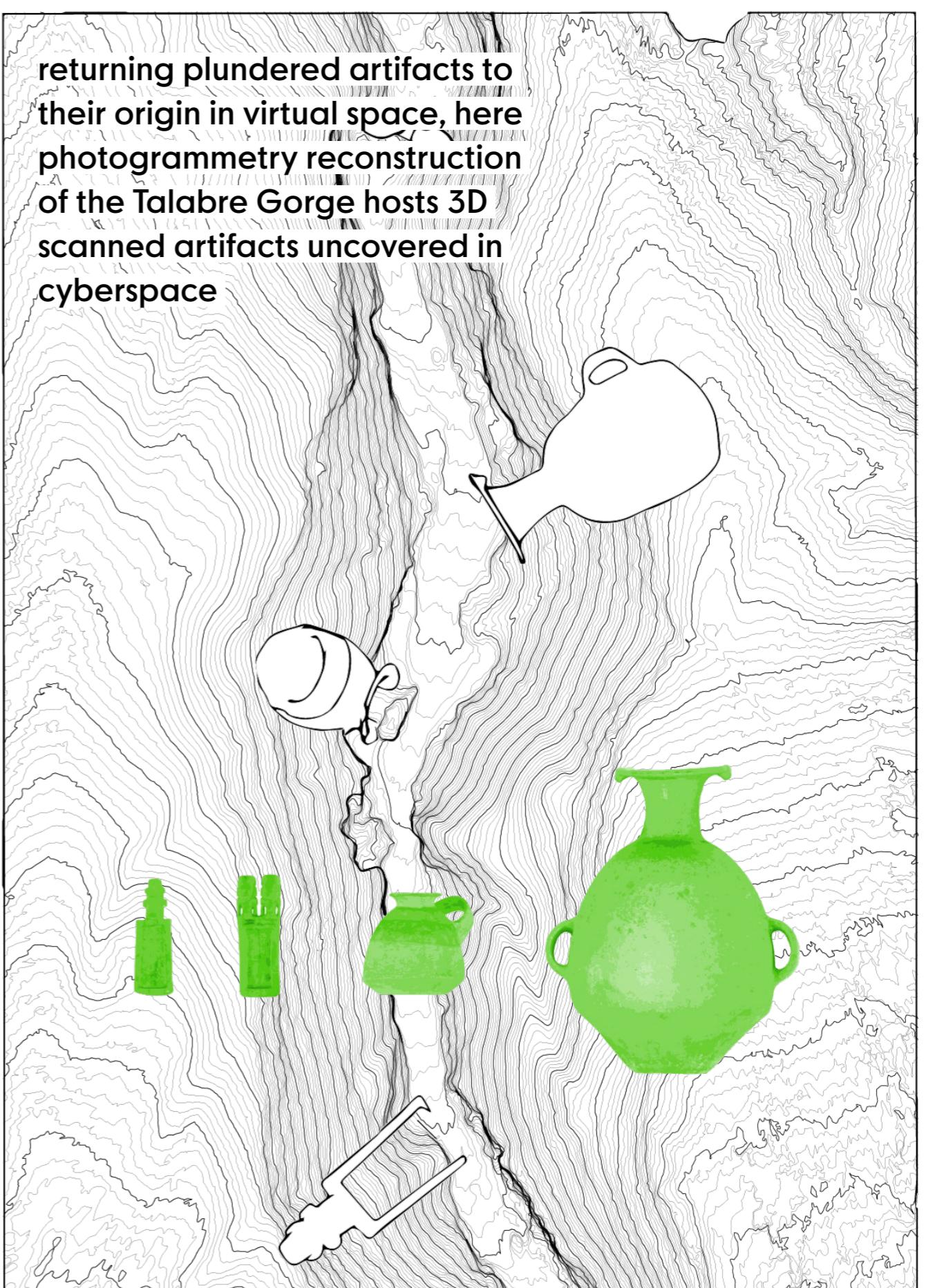
8



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This project explores the connection between the colonial history of museums as institutions, and the online consumption of foreign places through the internet, in cyberspace

software: blender



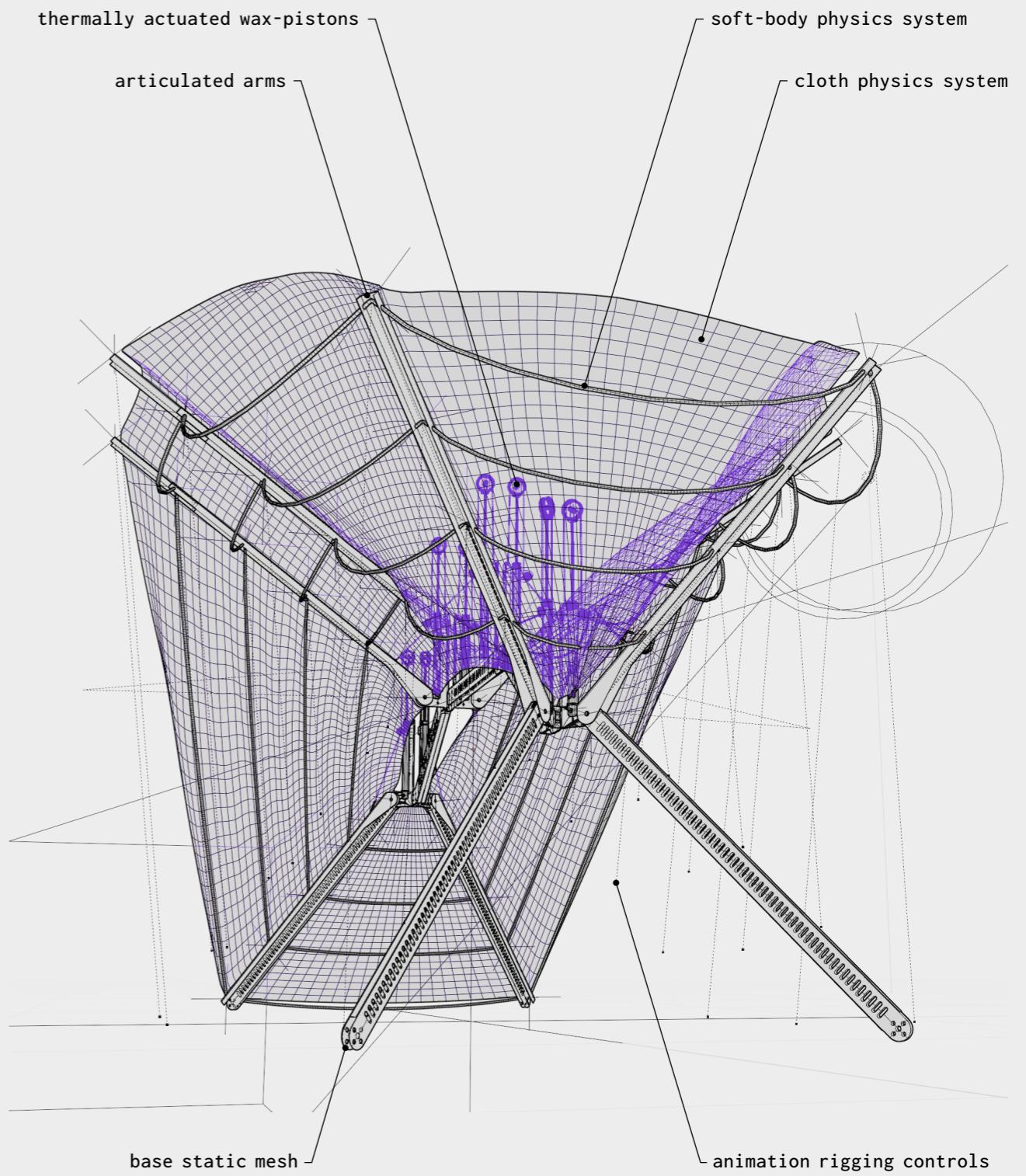
## Thermodynamic Desert Tent

Atacama Desert, Chile

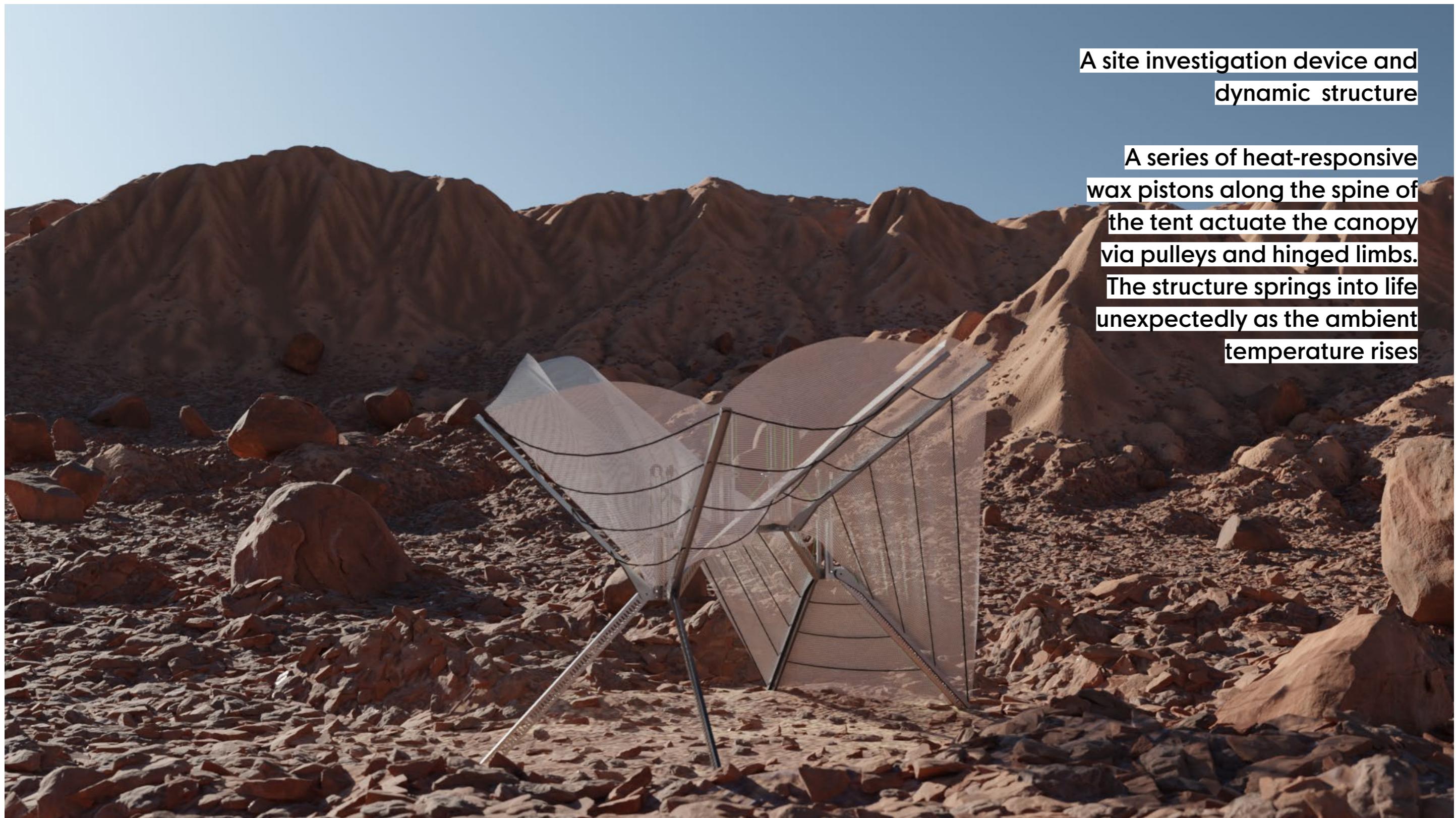
Master Project  
2021



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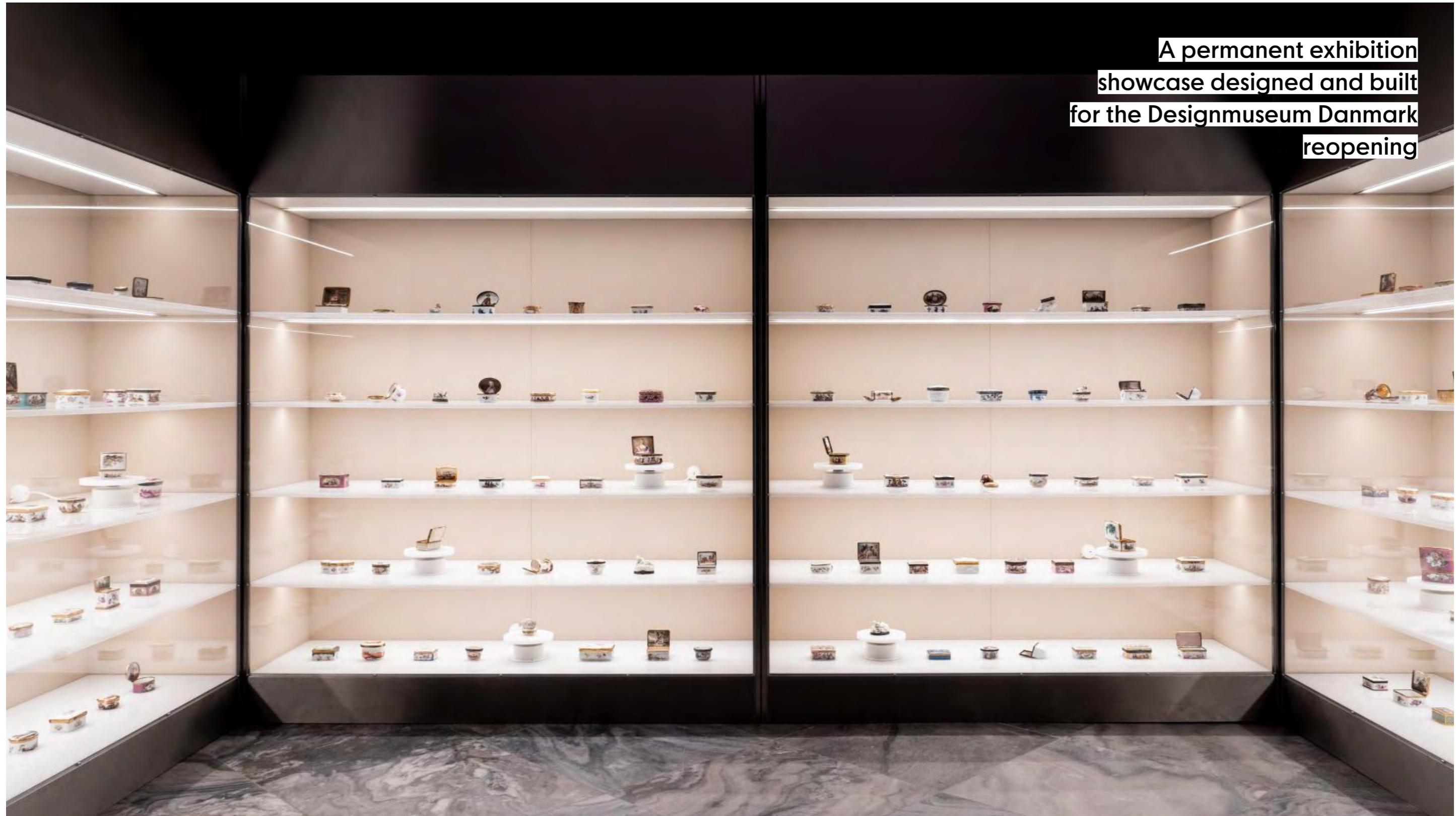
**A site investigation device and  
dynamic structure**

**A series of heat-responsive  
wax pistons along the spine of  
the tent actuate the canopy  
via pulleys and hinged limbs.  
The structure springs into life  
unexpectedly as the ambient  
temperature rises**

# Wonder Exhibition Showcase

Designmuseum Danmark

Industrial Design  
2022



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image: Joe McKenzie

A permanent exhibition showcase designed and built for the Designmuseum Danmark reopening

Constructed in opal acrylic and brushed stainless steel

Elliott Andrew created renders of the project during the design and prototyping phase, assisted with the construction and designed and installed the lighting

This project was a collaboration with Joe McKenzie

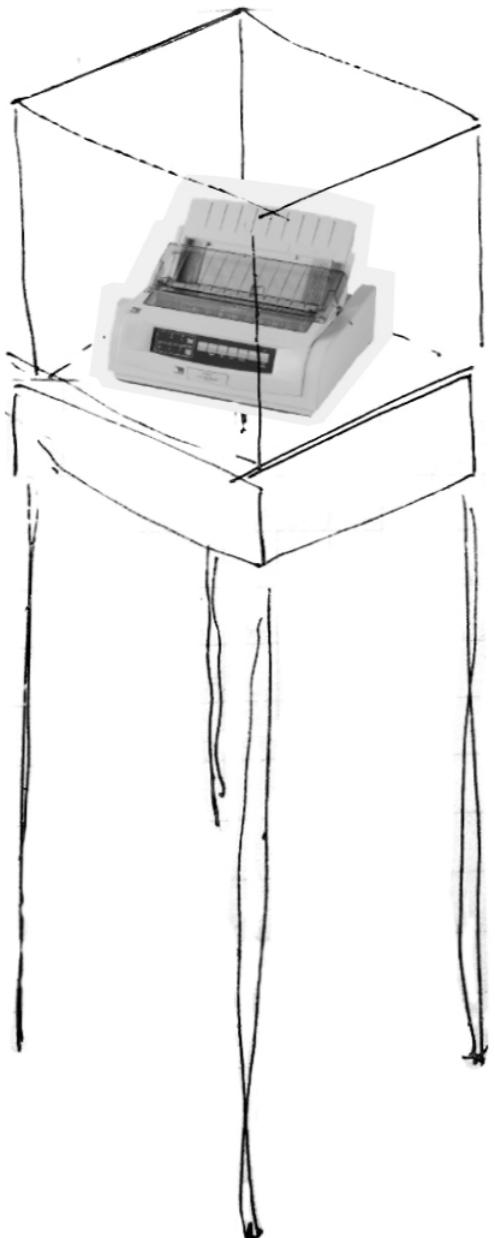


image: Joe McKenzie

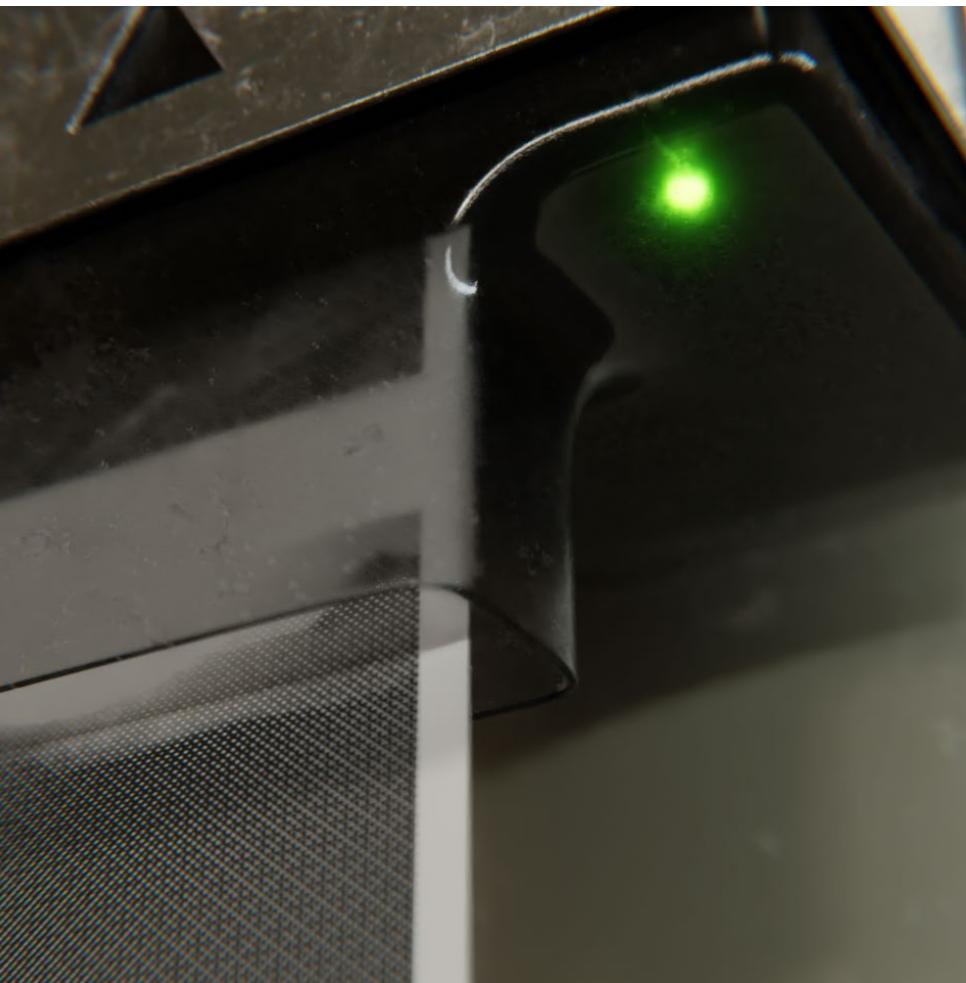
## REMO: Remote Sensing

Torshavn, Faroe Islands

Master Project  
2020



20



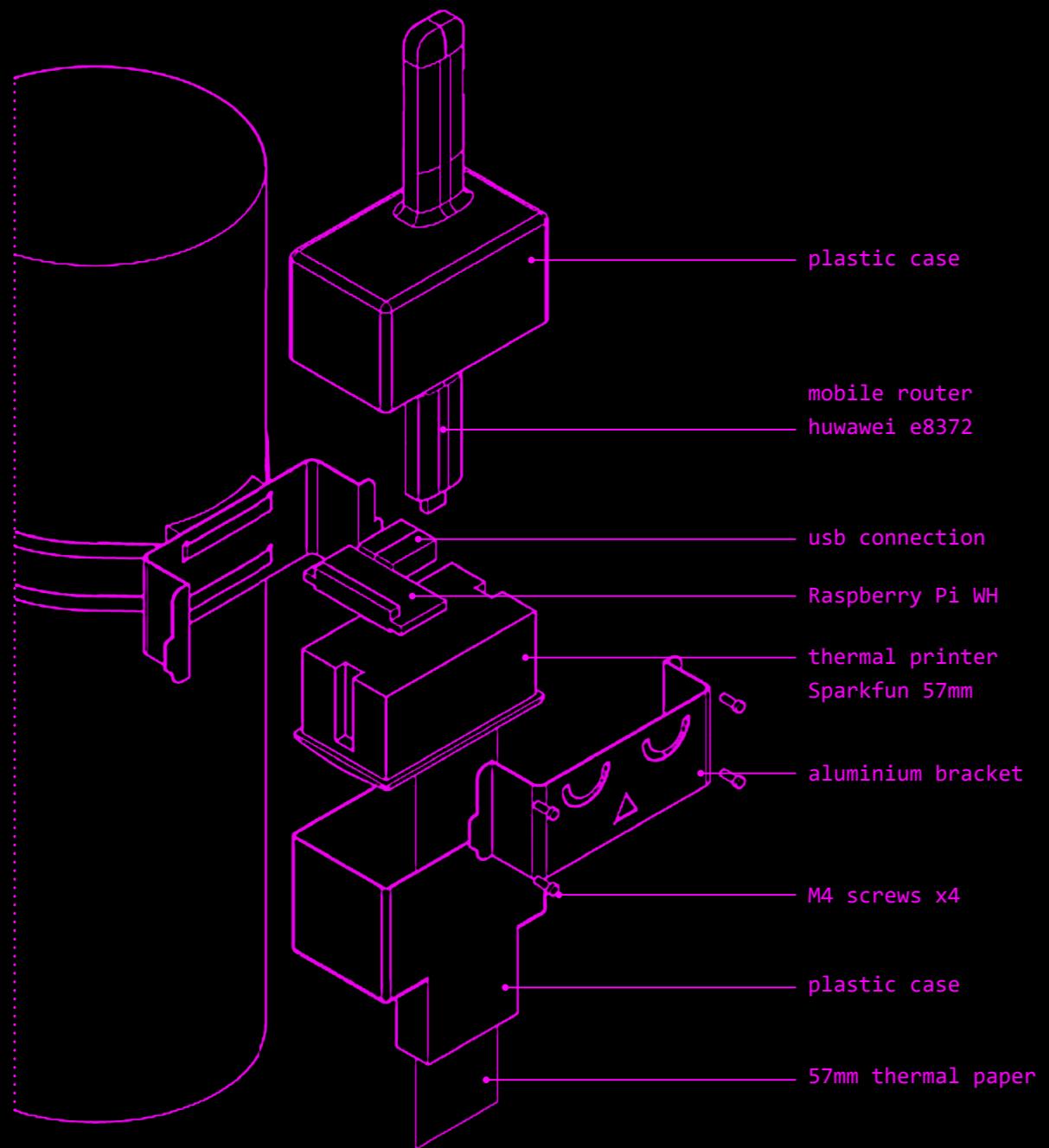
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This project takes on the gaze of a little robot “REMO” as it explores the landscape of the Faroe Islands remotely.

Images taken in the wilderness are uploaded to a python server and processed with the GauGAN machine learning API in order to produce a machine dreamt alternate reality.

REMO then prints the final images for all to see.

image created with Blender  
see the video at: <https://youtu.be/Y15xYtFpvNY>



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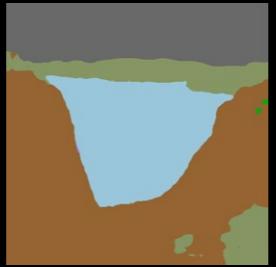
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image created with Blender

take image



SPADE: segmentation



GauGAN: generation



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download remotely  
from the cloudprocess and  
send to print

print image





REMO in the “flesh” at the Nordic House, Torshavn

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machine dreamt images of the  
Faroese landscape

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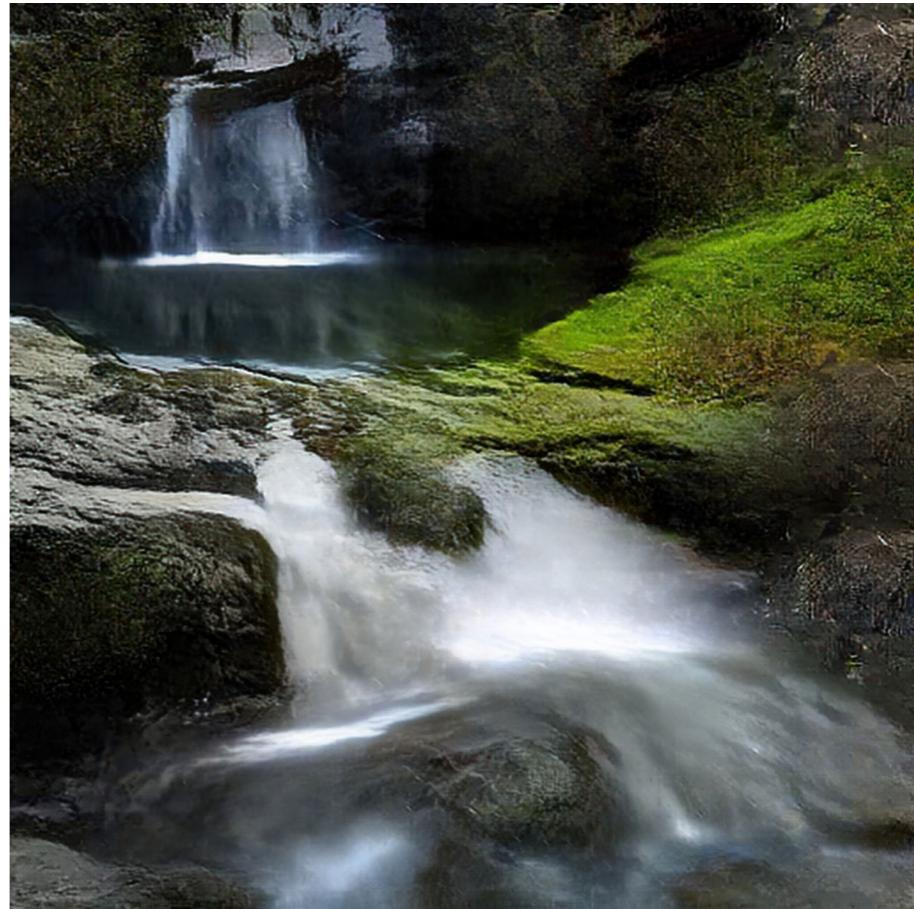


image generated with GauGAN AI

# A38 / Happy House

Stavanger, Norway

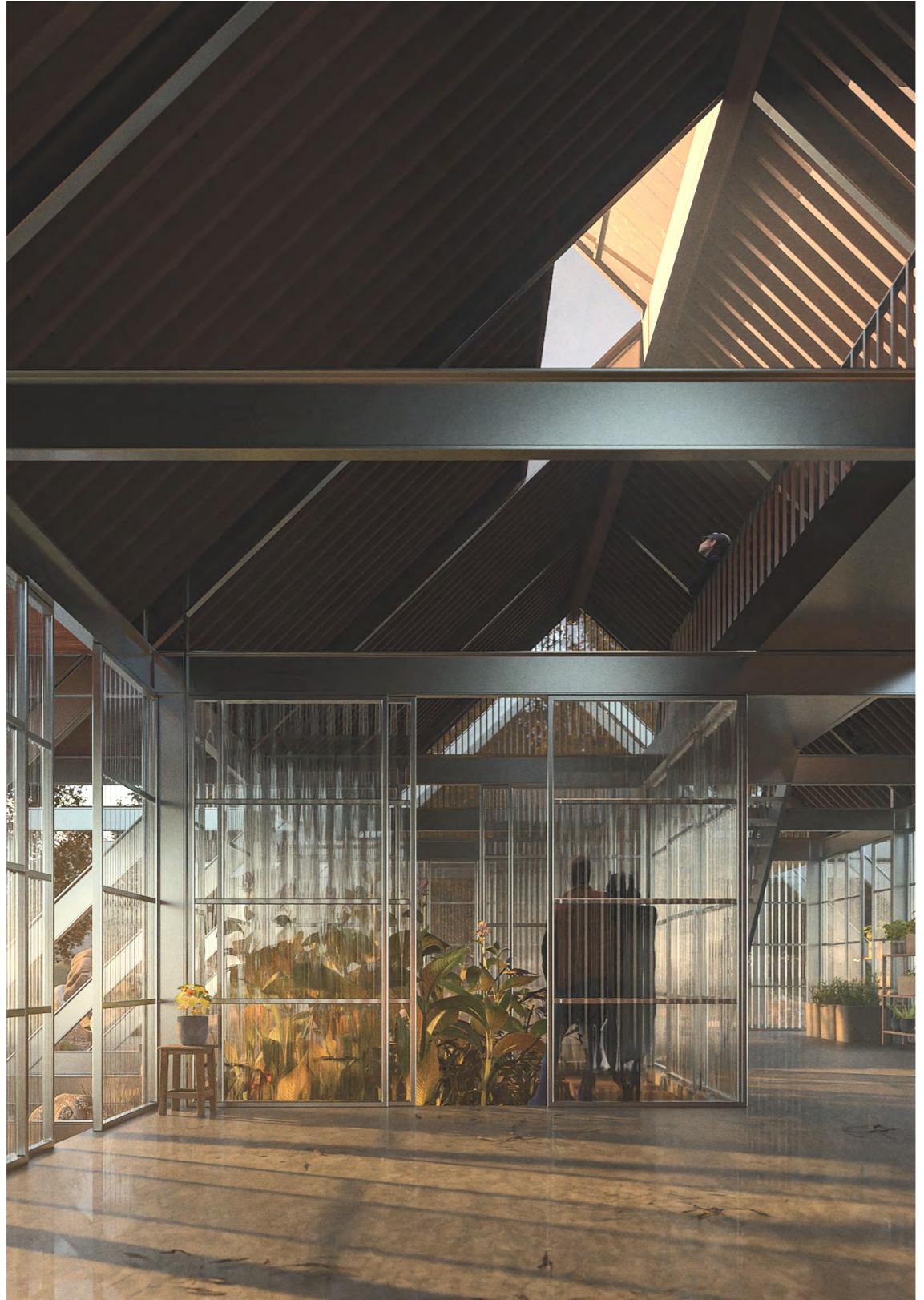
Visualization  
2022



## Community House

Ærø, Denmark

Visualization  
2022

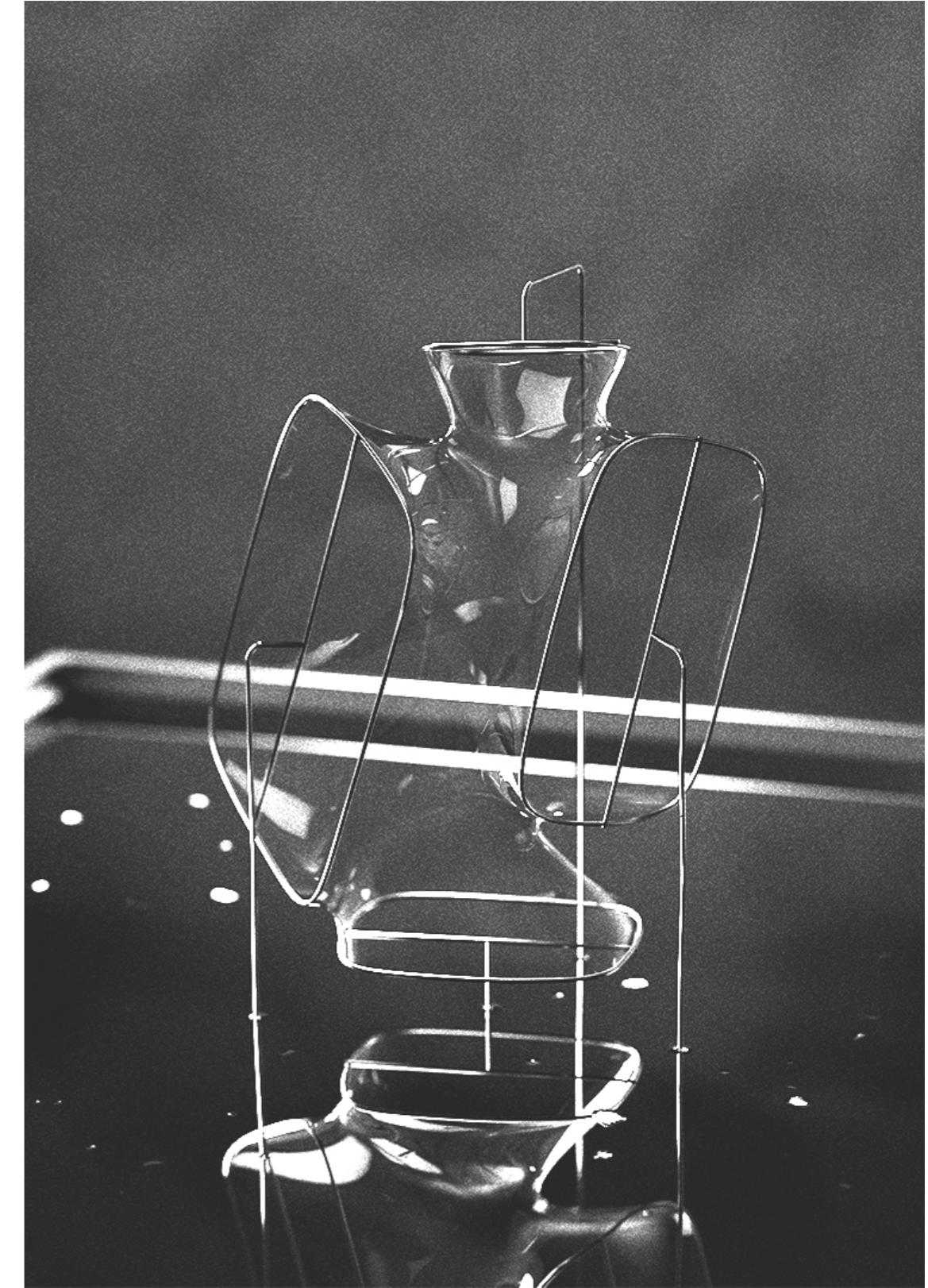


software: blender

## Soap Bubbles

Frei Otto

Visualization  
2021



software: houdini, blender