

Sebastián Morales Prado

Selected Works
&
CV

seb@morakana.com

CLIXO

Roles

2022- Present
Director of Design & R&D

2018 - 2022
Lead Design & R&D

Awards



**GOOD DESIGN
AWARD 2024**



Led design and engineering for an award-winning modular construction platform from prototype to production, reaching 20+ countries through major retailers including Target.

Drove product architecture across 30+ SKUs, DFM optimization, and testing protocols while navigating complex supply chains and international safety certifications.

Directed cross-functional teams through iterative hardware development, material science challenges, and manufacturing constraints, transforming flexible magnetic systems into a robust, scalable product line. .



Micro 3D Scanner - Existing Research

Medium

Microscope Objectives
Computer Vision
Robotics
Photogrammetry
Gaussian Splatting

Date

2024-2025

Type

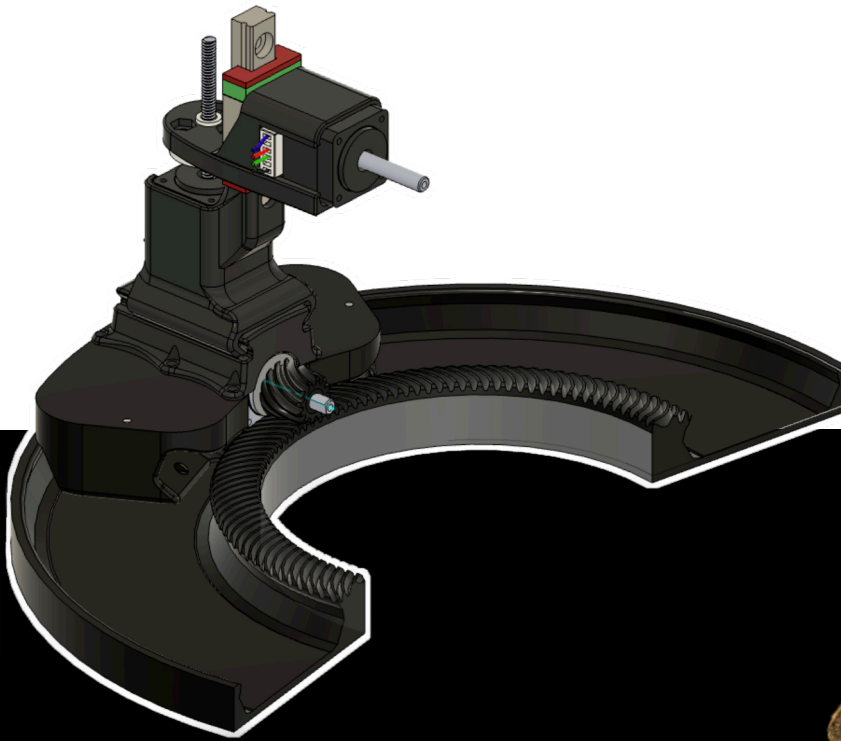
Tool
Research in
progress

Microscope system to generate high resolution 3D models using computer vision and photogrammetry.

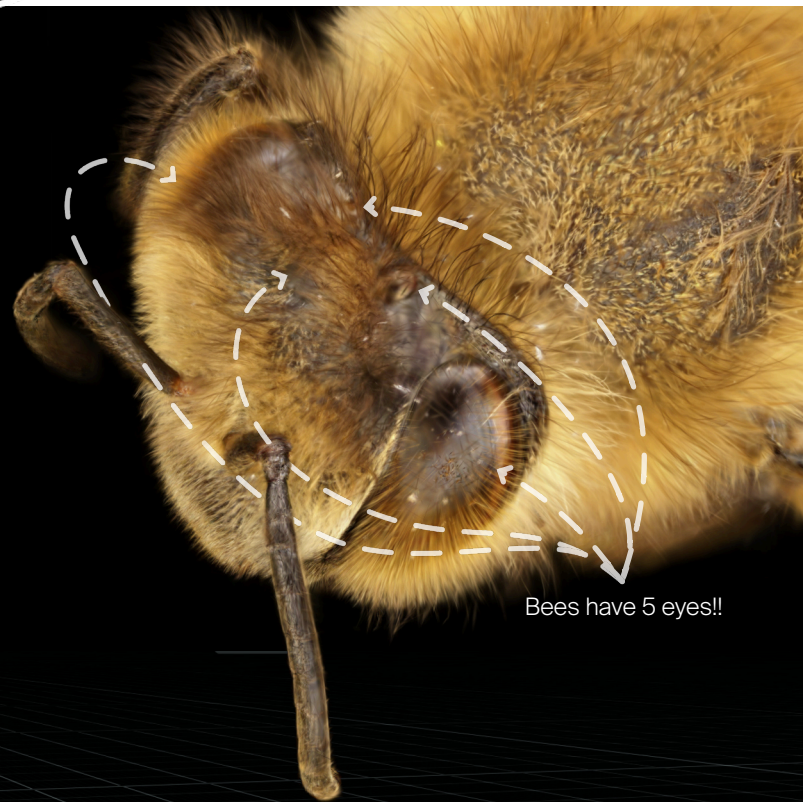
The 3D microscope is a tool we are currently developing. It is composed of motorized system to orbit and move a sample under a camera with a microscope objective. The system will automatically take thousands of images that later go through a partially manual, partially automated, workflow to create a 3D view of the sample.

There are currently a couple of challenges that I believe could be solved though a collaboration with Dr. Averbuch-Elor. In particular regarding the processing of focus (DOF) masks to accelerate the model re-creation.

Here are images and links to the current state of the research.



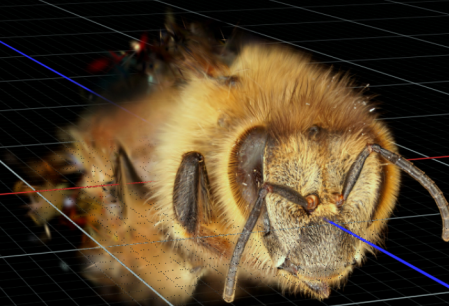
Robot moving
samples under
microscope objective



Bees have 5 eyes!!



Italian HoneyBee



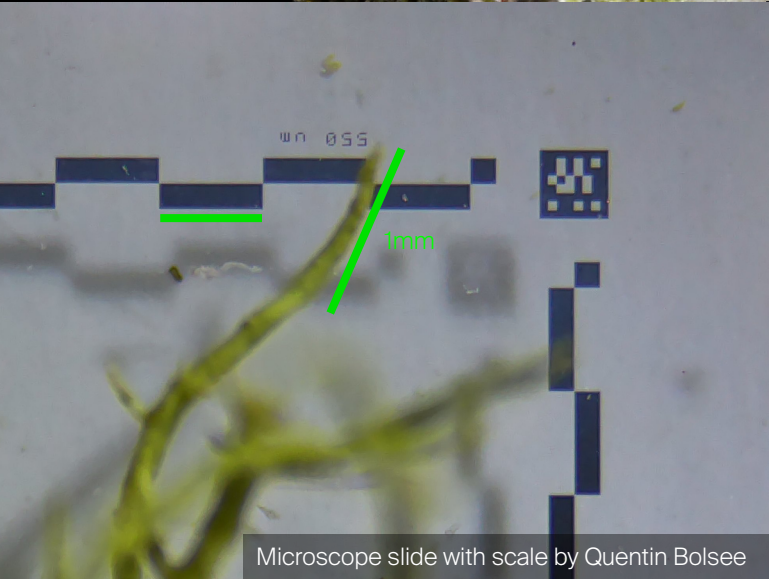
<https://bee-morakana.glitch.me/>

Lichens growing on tree bark

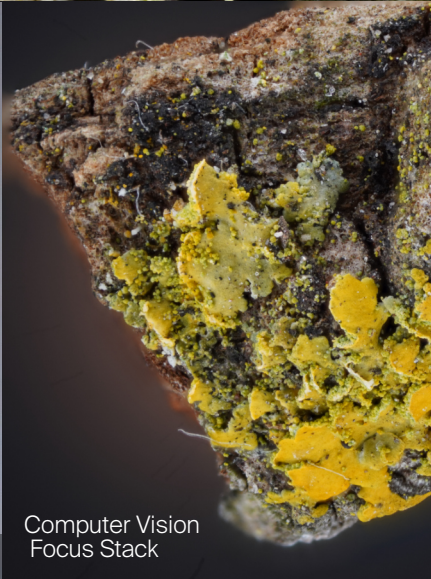
Sebastián Morales Prado



<https://lichen-tree-morakana.glitch.me>



Microscope slide with scale by Quentin Bolsee



Computer Vision Focus Stack

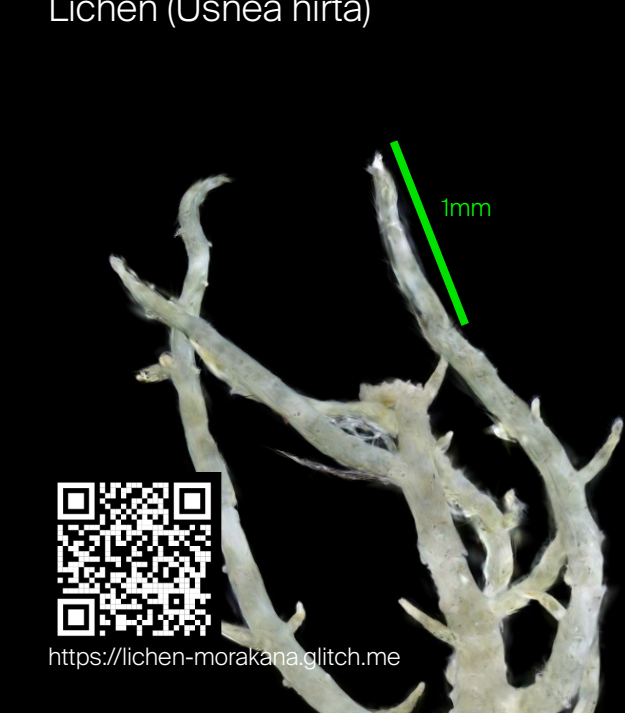


Computer Vision Focus Isolation

Lichen (*Usnea hirta*)



<https://lichen-morakana.glitch.me>



Lichen, finger for scale



Histolysis

Medium

Custom circuit boards,
3D-printed structures,
carbon fiber rods,
Dyneema cables,
Geared DC motors,
Microphones, LEDs,
Bioplastic,
Custom software and
hardware.

Date

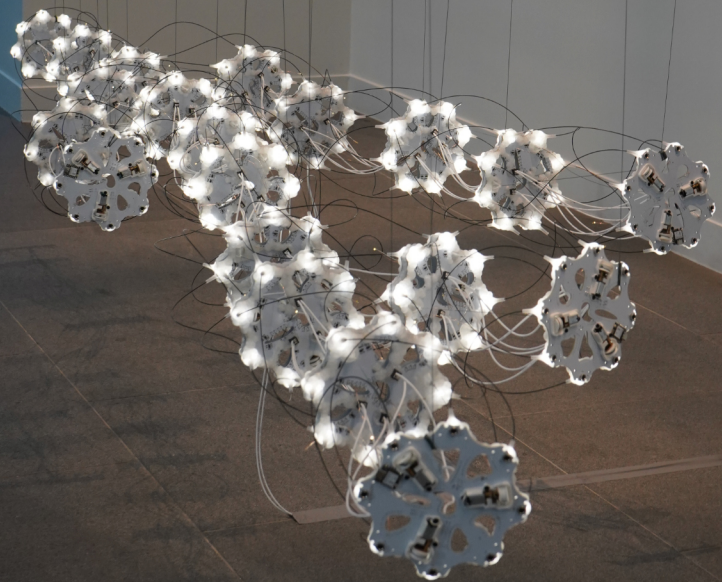
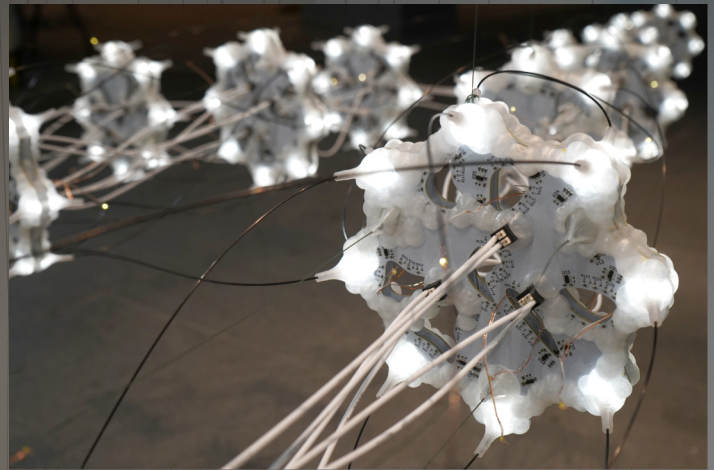
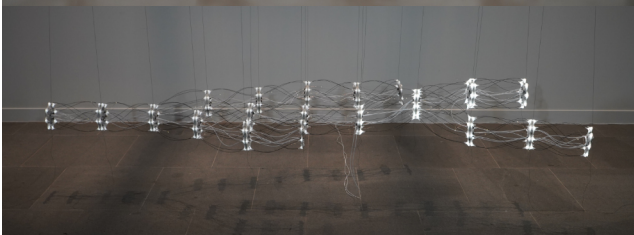
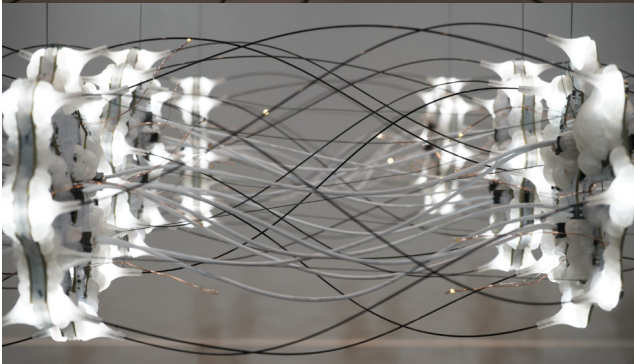
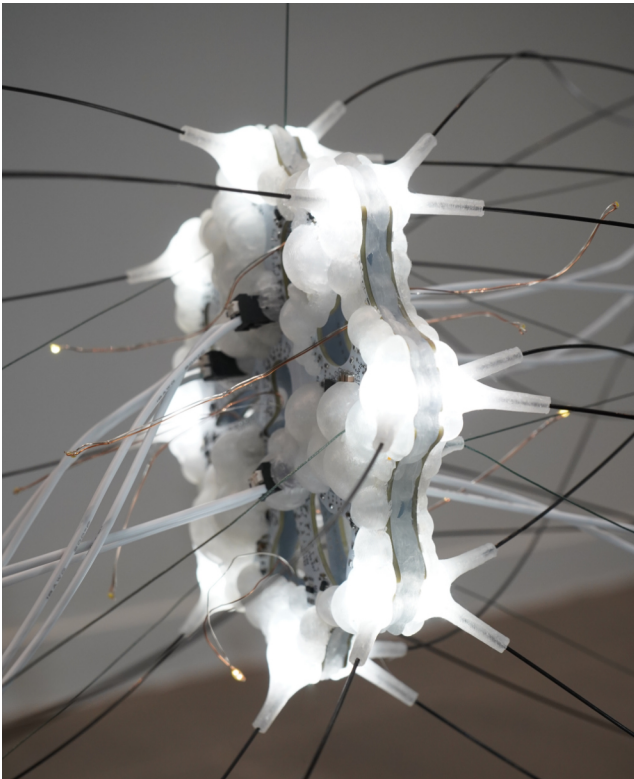
2025

Support

NEW
IN
C
NYLAAT

Do you remember what it felt like before turning human?

Histolysis is a kinetic installation that engages nonhuman systems through attunement rather than control. Suspended just above the floor, its root-like structure pulses with quiet, peristaltic motion. It is slow, subtle, and easily overlooked. Transformation unfolds not as spectacle, but as an infrastructural condition, gradual, distributed, and ongoing. The system resists resolution, remaining in a state of continuous reconfiguration that echoes the unstable, provisional nature of metamorphosis itself.



The sculpture is constant reconfiguration by a custom network of motors and sensors arranged in a flexible design of modular nodes. Informed by soft robotics, its motion is not forceful but tensile and supple. Bending, contracting, and unfurling in quietly regulated rhythms.

Inoculated - *The WiFi Eater*

Medium

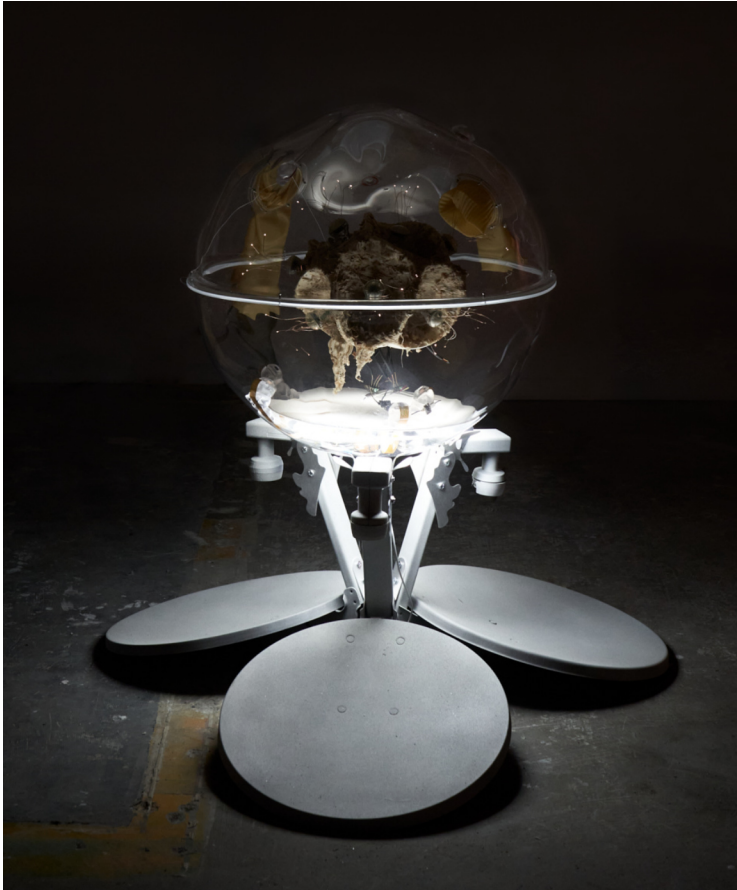
ESP32
Wifi Networks
Mycelium
Custom Antennas
Satellite Dish
LEDs
Camera Array
Custom Microcontrollers

Date

2024

Showcase

NEW INC
Creative Science
DEMO Festival



Internal WiFi antennas within Inoculated detect subtle changes in signal strength and density. These fluctuations are directly translated into vibration and light, relating to the mycelium's sensitivity to both.

Inoculated is born out of the symbiotic relationship between fungi and network devices.

Inoculated imagines what might happen after billion years of symbiosis leading to mutual co-evolution between nature and technology.

Inoculated is rooted in the scientific concepts of endosymbiosis, the evolutionary history of photosynthetic eukaryotes, and the adaptive strategies of composite organisms. It is inspired by real-world symbiotic relationships, such as those seen in lichens or photosynthetic sea slugs.

Can an organism mutate to take advantage of the ubiquity of radio waves in the 2.4GHz spectrum as a source of nutrition or communication?

As humans, we have transformed our environments in both visible and invisible ways, among the dramatic changes we have caused, we have introduced a new source of energy in the form of radio waves.

For us, *WiFi* means connectivity, immediate access to information, knowledge, nowness. For other organisms, it is simply one more factor in their ecosystem to adapt to.

As a living organism, Inoculated is enclosed within a protective shell to prevent contamination from the exhibition space. The structure is supported by repurposed satellite antennas salvaged from Brooklyn rooftops. Inside the shell, small cameras document gradual changes over time, capturing processes too slow for human perception.



Cumulus

Medium

Weather Satellites
ESP32
E-Ink Displays
Solar Cells
Fabrication
Custom PCB
Aluminium Framing
Servers

Date

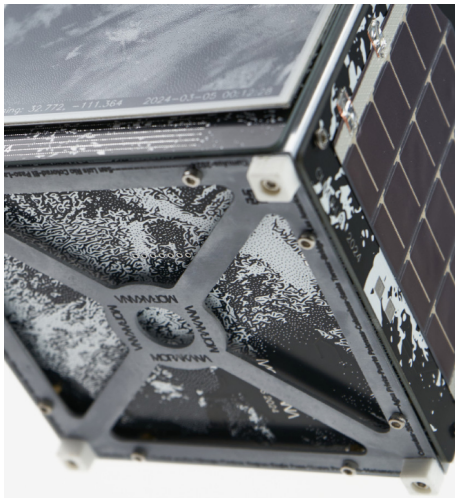
2022- 2025

Support

Creative Capital
NEWINC
Currents New Media
Singapore Art Museum
Lumen Prize Finalist

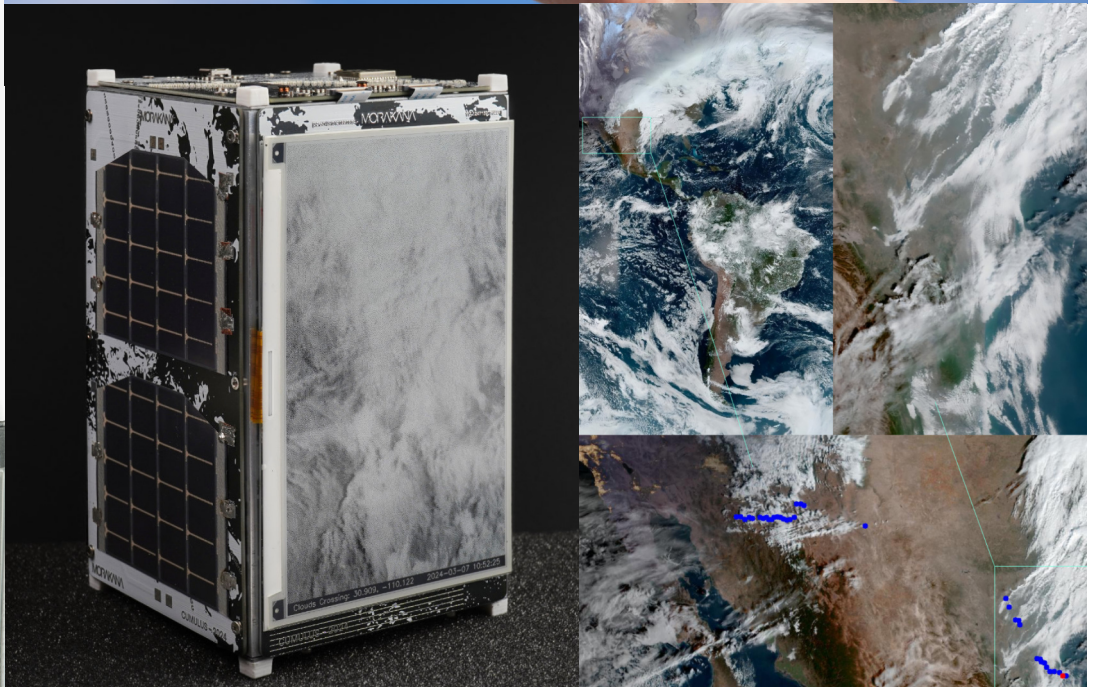
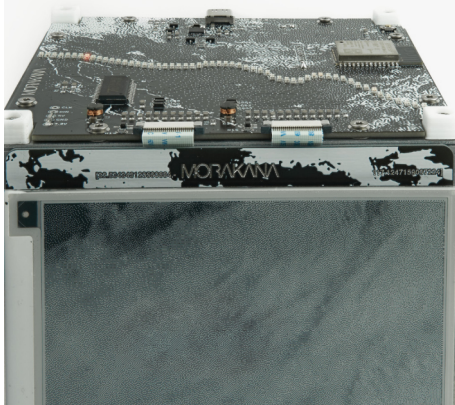
*Cubesat-like networked device
monitoring the Mexican-US border
searching for clouds crossing the
geopolitical division.*

In a time of fear and mass deportations, Cumulus monitors the Mexico-US border, tracking clouds as they cross freely over walls, rivers, deserts, and the oceans. It employs two electronic paper displays to render the ever-changing atmospheric bodies in real time, ever 11 minutes.



At the heart of Cumulus is the embodiment of the *Overview Effect*, a cognitive shift in awareness often reported by astronauts when viewing the Earth from outer space.

Using NOAA satellite images and CubeSat-inspired design, Cumulus contrasts the division imposed by politics and the constant flow of bodies, highlighting how borders are arbitrary, constructed, invisible from a higher perspective, yet have real, profound impact in our lives.



Aquaculture Phenotyping Machine

Technology

Jetson Nano
2 perspectives RGB Camera
(8MP+)
Pit-tag scanner (ISO11784 and
11785 134.2 kHz RFID)
Omron Scale
Barcode Reader
Remote server communication

Date

2020-2021

Client

Aquaticode

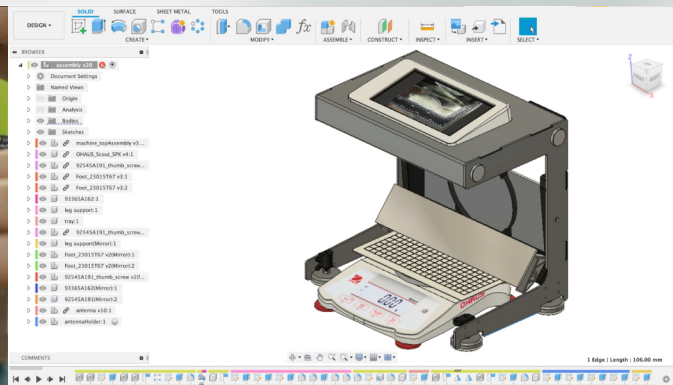
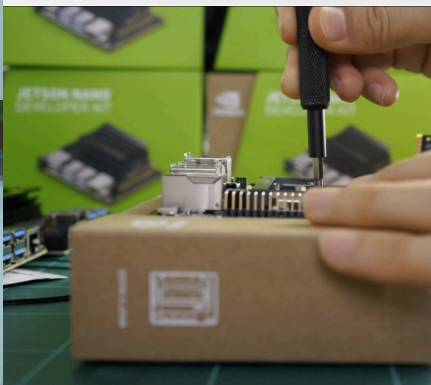
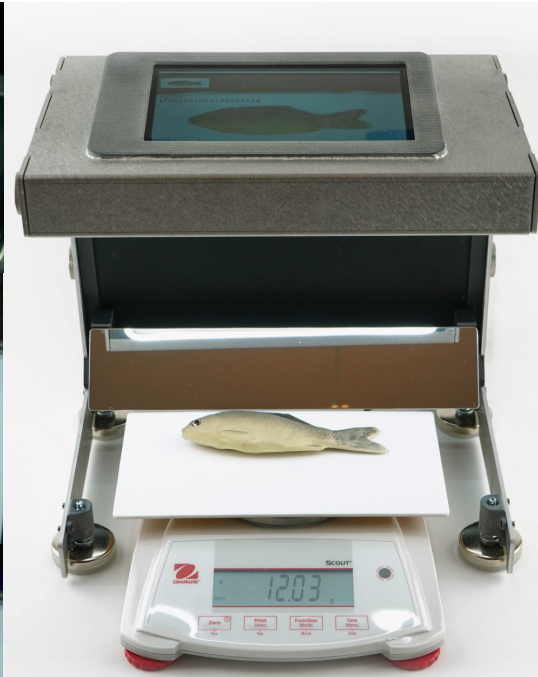
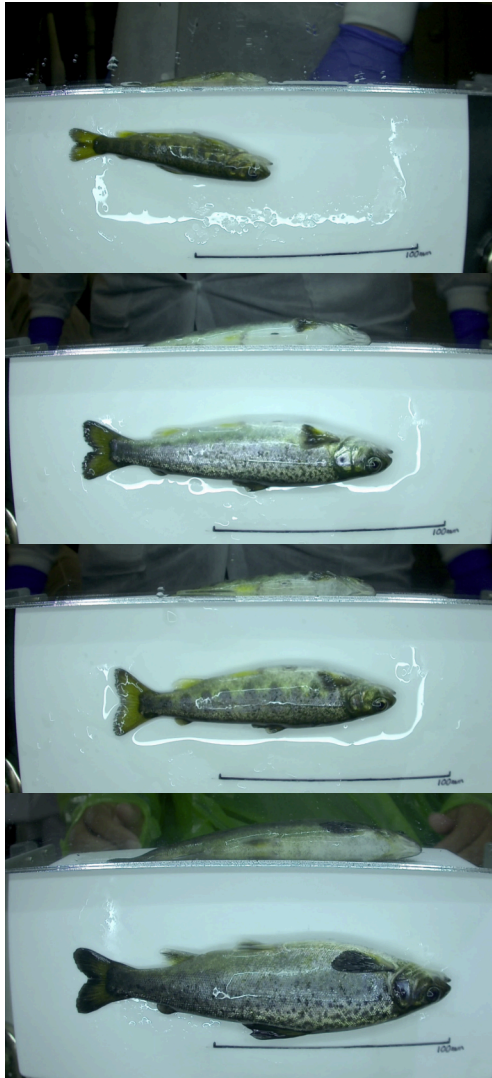
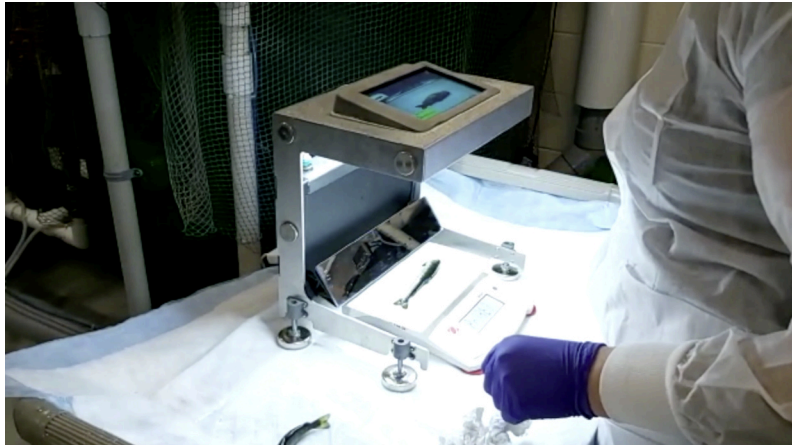
Custom Machine for AI Aquaculture Data Capture

This project was developed in partnership with Aquaticode, a company bringing Machine Learning image recognition to the aquaculture industry. The goal for the machine is to generate robust datasets of images to help build the ML models.

For this the machine needs to be able to capture several data inputs, components should be able to withstand a wet environment and processing time per fish should not exceed 5-7 seconds.

The project began with a quick 4 weeks research phase to evaluate a range of technical solutions and approaches.

After successful field test, building 6 machine, and scanning thousands of fish in 3 countries, Aquaticode was able to secure the fundings to scale their operation.



Symbiosis.live

Medium

Single-cell organisms
Internet Bots
Networks
Bioreactor
Microscope
Servers

Date

2018-2022

Support

NEW
IN
C
CULTUREHUB

LIOLS
Urban art lab
in Seoul

we
RADICAL NETWORKS

Mana
Contemporary

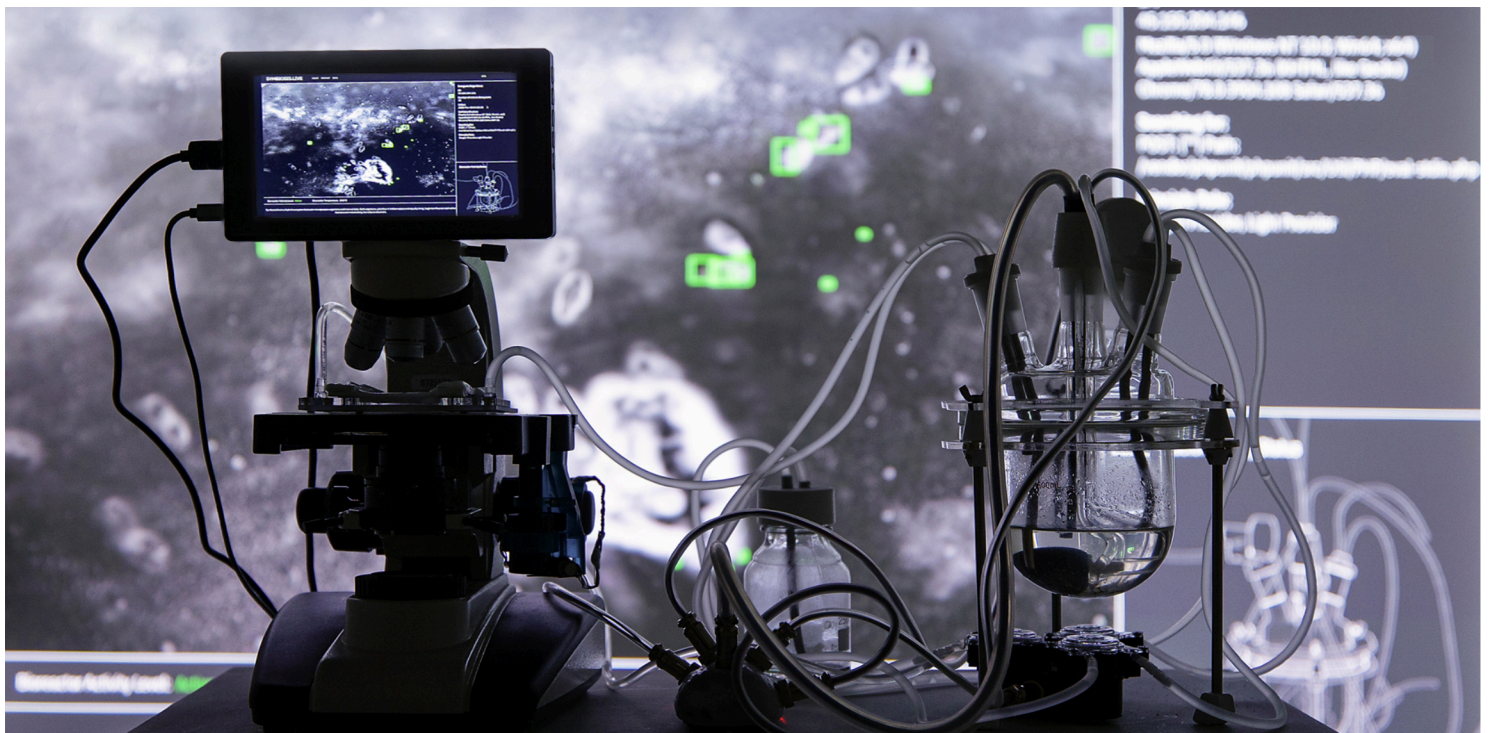
G.MAP

itp

*Part digital, part physical, fully alive.
Symbiosis.live is an estuary website where
microscopic organisms meet their digital
equivalent, internet bots.*

Together, they begin to develop a symbiotic ecosystem, bots travel the world through underwater cables to deliver food, oxygen, and light into the bioreactor. The cells, in turn, modify servers to lure or repel internet bots.

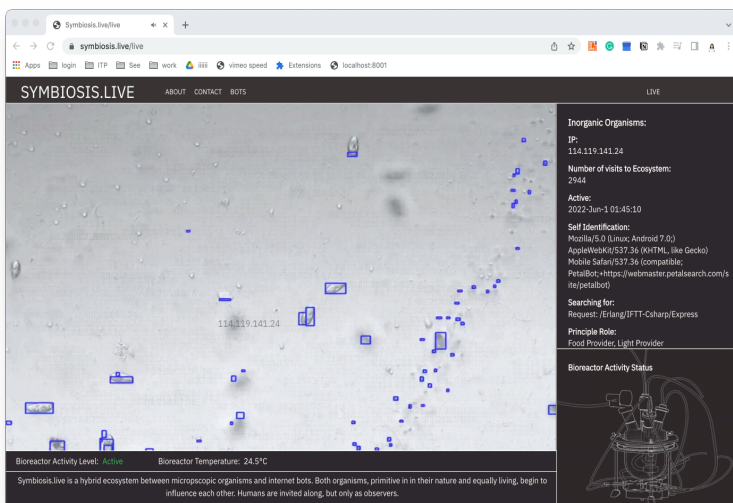
Humans are invited along, but only as observers.



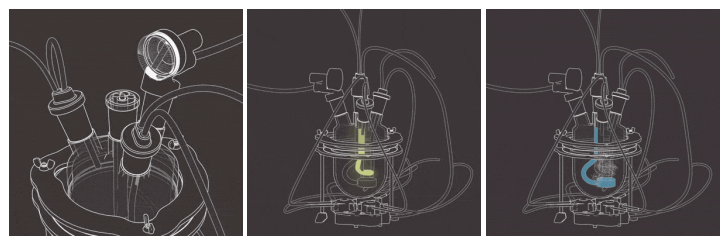
Symbiosis.live shown at Gwangju Art & Media Technology Center Korea

What does it mean to be alive?

Just like cells, internet bots are primitive, they came to life shortly after their world was created, and have been evolving ever since. Symbiosis.live, is a bridge between these two organisms, giving them a place to mutate together. Creating a possibility for in the future, a new branch of biology to emerge.



Screen capture of Symbiosis.live, internet bots IP address displayed over live microscope footage.



Depending on their behavior, bots contributed to the ecosystem by delivering oxygen, food, or light to the bioreactor.

Nopales Lamp

Medium

Custom PCB
LEDs
CR2032

Date

2023-2025

Support



NEW
in
c
NEW
MUSEUM

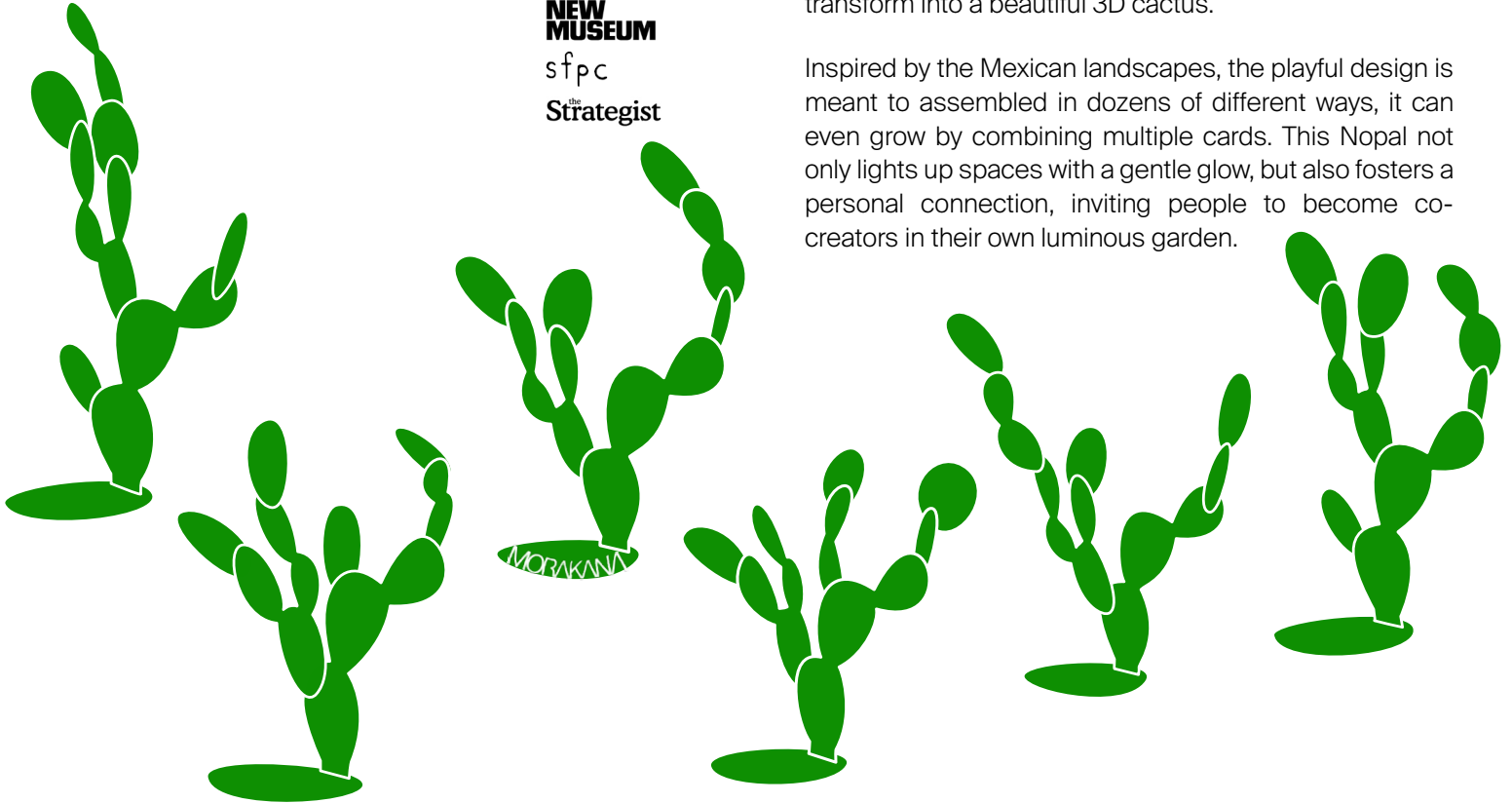
sfpc

the
Strategist

Ground, Water, Thorns, & Electrons

Nopales is a modular lamp that starts as a flat Printed Circuit Board that can easily be hand-broken into pieces by the user. The interlocking pieces then click together to transform into a beautiful 3D cactus.

Inspired by the Mexican landscapes, the playful design is meant to be assembled in dozens of different ways; it can even grow by combining multiple cards. This Nopal not only lights up spaces with a gentle glow, but also fosters a personal connection, inviting people to become co-creators in their own luminous garden.



Sebastián Morales Prado CV

morakana.com

Brooklyn, NY

Sebastián Morales Prado | seb@morakana.com

Work Experience

MORAKANA:
Co Founder (2020-Present)

Clixo:
Director of Design & R&D (2022-Present)
Lead Design & R&D (2018-2022)

Genspace:
Bio-Instrumentation Fellowship (2025)



Teaching

Collaborative Arts - Tisch, New York University - Adjunct Faculty Member, 2026 - Present, New York, NY

School for Poetic Computation - Instructor- Organizer - 2018- 2024, New York, NY

Selected Artist Engagements & Exhibitions

2025-26, Oct-Jan [Exhibition] Smart Cities, NY Latin American Art Triennial, Bronx, NY

2025- 2026 [Fellowship] Bio Instrumentation Fellowship, Genspace, Brooklyn NY

2025, July [Talk] MORAKANA Bugs in the System, MS CDP Conversations with Practitioners Lecture. Columbia University, NY

2025, June [Exhibition] DEMO Creative Science, NEWINC, NY

2025, June [Residency] Haystack Labs, Haystack School of Craft, Maine

2024, June [Exhibition][Talk] DEMO Creative Science, NEWINC, NY

2024, April [Performance] Medea, CultureHub, NY

2024, March [Talk] Digital Summit, Art Dubai, Dubai UEA

2024, March [Exhibition] Paramecium Diner, HTML Review Brooklyn, NY

2023, Nov [Showcase] Software for Artists Day, SFPC, Pioneer Works, Brooklyn, NY

2023, Oct 17 [Installation] Symbiosis.Live, NEW INC, NEW MUSEUM at Oko Farm, Brooklyn, NY

2022-2023 | The Kitchen L.A.B. Residency x Simons Foundation x School for Poetic Computation- Advisor for Primary Researchers, New York, NY

2023, Mar 4- Apr 8 | [Exhibition] Head Hi Annual Lamp Show, Brooklyn, NY

2022, March 30 - June 30 | [Exhibition] Symbiosis.Live - Installation, Gwangju Art & Media Technology Center, Gwangju, Korea

2022, Feb 14 | [Performance] In the Mood for Love: Reimagining the Music of Wong Kar Wai - Bomb Magazine - Interactive video performance in collaboration with John Chao and Ray Suen, Ace Hotel Brooklyn, New York

2021 July [Performance] LFMW, Solidarity: Digital Strategies for Creative Resilience, CultureHub/ Belgrade, Serbia

2021 April [Exhibition] Live from the MicroWorld - Video Installation at Art Dubai 2021, Dubai

2021 January [Exhibition] Live from the MicroWorld, National Gallery Singapore, Singapore

2020 Aug [Performance] Live from the MicroWorld, Currents New Media, Santa Fe, New Mexico

2020 April [Performance] Live from the MicroWorld, Elektron, Tallinn, Estonia

2020 March - August [Exhibition] Artists' Tools, Special Special, New York

2019 May [Exhibition][Panel] Mana Contemporary, Jersey City, New Jersey

2018 April [Exhibition] Distancias, Mon Oeil, The Centre Pompidou, Paris France

Residencies and Memberships

Genspace: Bio Instrumentation Fellowship - 2025, Brooklyn NY

Haystack Labs: Haystack Mountain School of Crafts - 2025, Deer Isle, ME

NEW INC: Creative Science Track Member - 2023-2025, New York, NY

MAX: Media Art Xploration (NUUM Collective) - 2021, New York, NY

Creative Capital: Taller Profesional Para Artistas - 2019-2020, New York, NY

Interactive Telecommunications Program, NYU: Research Fellow - 2018-2019, New York, NY

Mana Contemporary: New Media Artist in Residence - 2018-2019, Jersey City, NJ

Singulier Contemporary Tattoo: Artist in Residence - 2017 Brussels Belgium

Pier9, Autodesk: Artist in Residence - 2015-2016 San Francisco, CA

Press & Awards

Time - Best Inventions of 2025: *Clixo - Toys & Play*

Lumen Prize Finalist- 2025: *Cumulus- Lumen Prize Identity & Culture Award Finalists*

A'Design Award 2024: Nopales Lamp - Winner in Bronze in Product Engineering and Technical Design Category

Core77 Design Awards Toy & Play, Clixo Mars Rovers - 2024

Kalkine Media, Nopales by Sebastian Morales and Tiri Kananuruk Wins Bronze in A' Engineering and Innovation Awards- Oct 23,

Milk.XYZ Inside Mana Contemporary: Interviews With Four Artists In Residence, July 4, 2019

Billboard Creative Bots, Cells, and Humans Watching, Video Interview by Sam Vladimirsky, 2019