PORTFOLIO



COLUMBIA UNIVERSITY - GSAPP

M.S. ADVANCED ARCHITECTURAL DESIGN

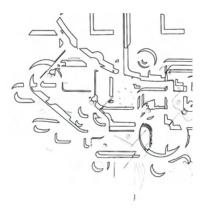
CLASS OF 2024 JINJIAN CHEN

CONTENT.



↑ FLOATSCAPE

FA 2023 STUDIO STUDIO CRITIC: AMINA S. BLACKSHER



NORHAVEN "FUN PALACE"

SP 2024 STUDIO

STUDIO CRITIC: IRINA VERONA,

JENNIFER CARPENTER, JERRON HERMAN



WATER GLITCH

SU 2023 STUDIO

STUDIO CRITIC: URIEL FOGUE



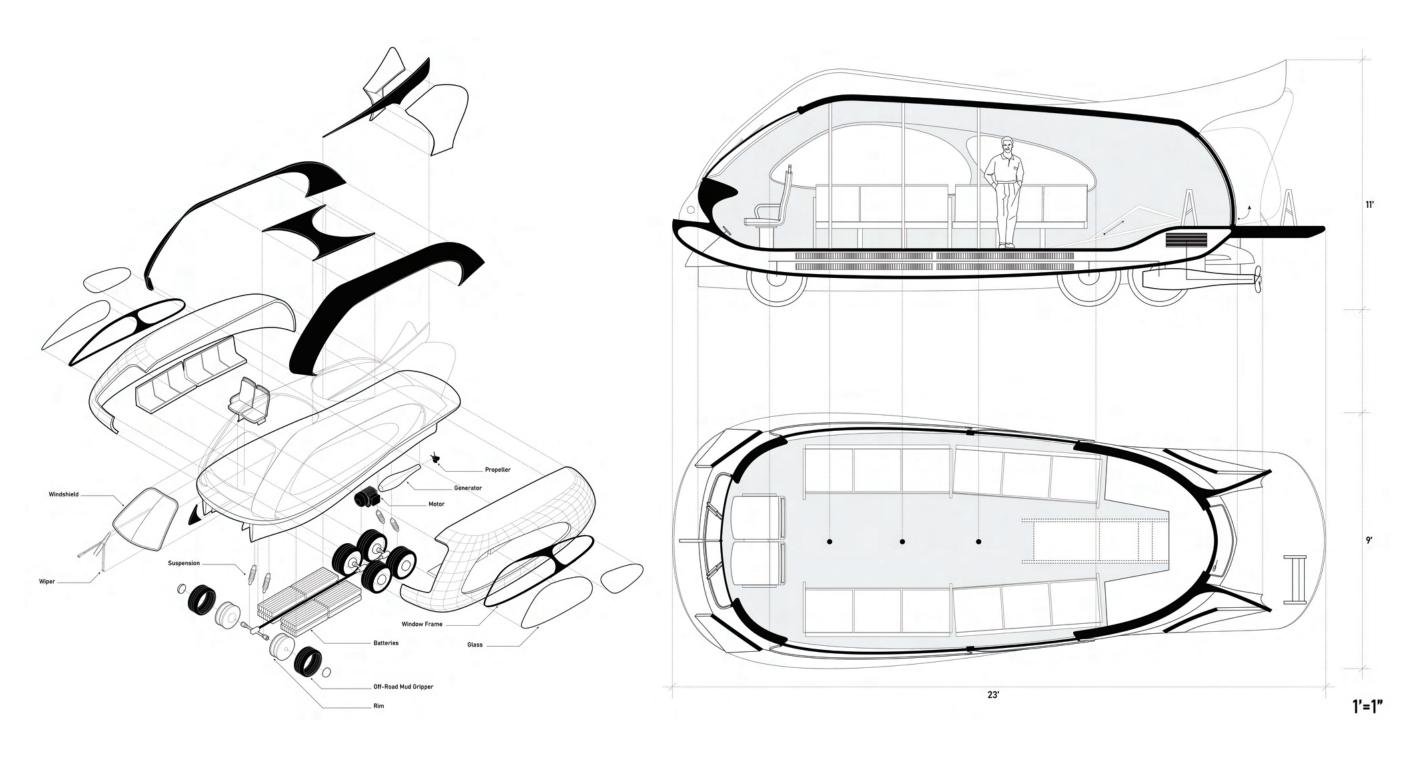
FLOAT SCAPE

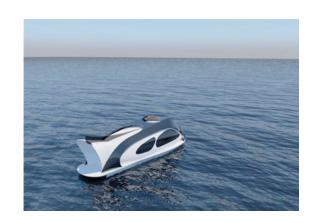
SU 2023 STUDIO NEW YORK

Given our growing susceptibility to extreme
weather events, and anticipating a significant
sea level rise, flooding New York City about five
to ten feet in the future, the project:

"FloatScape" utilizes the Spring Studio, located at the heart of Tribeca, as its prototype site. With its reputation for hosting innovative and artistic gatherings, Spring Studio serves as a hub for a wide range of communities. By adding additional structures attached to the Spring Studio, testing out the movement of people and transportation methods when the ground is absent due to severe flooding.

Team of Three: (Jinjian, Xinting, Xiaoyu)





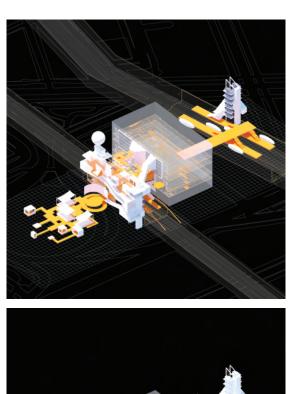


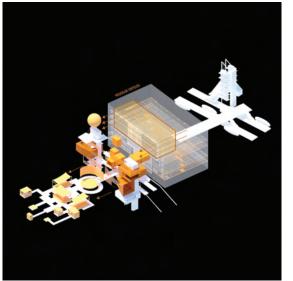


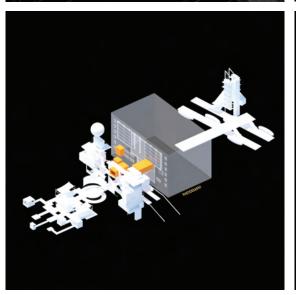
VESSEL DESIGN

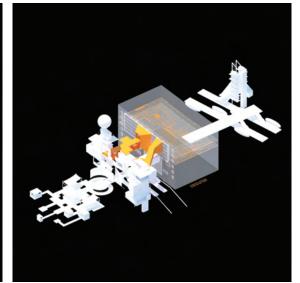
Amphibious Shuttle

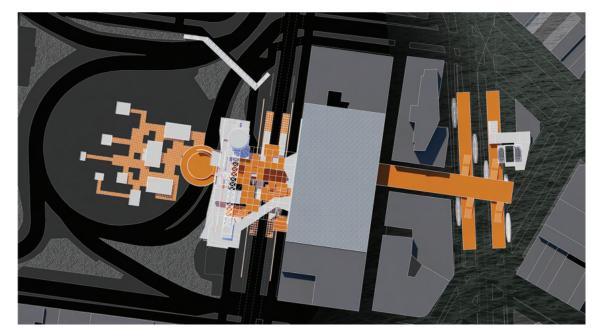
The first step is to design a wet network, driven by the question of how people are moving around, from point to point and to the site? I designed an amphibious shuttle that can be occupied by 20 to 25 people and connect neighborhoods. This system is giving the shuttle more flexibility, because of its two modes, allowing it to drive on wet conditions or dry land.

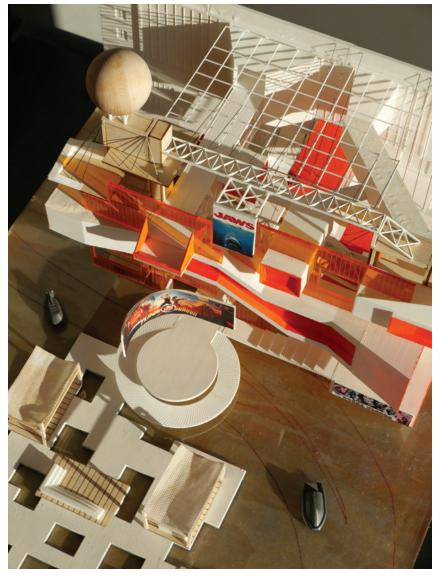






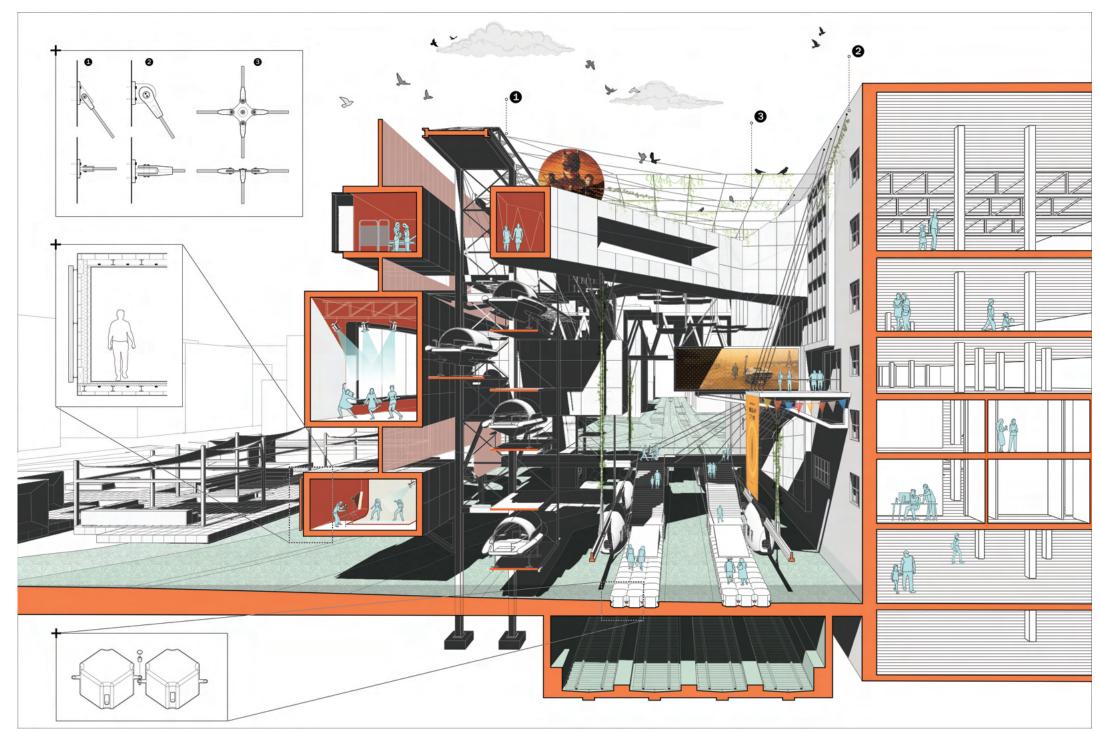


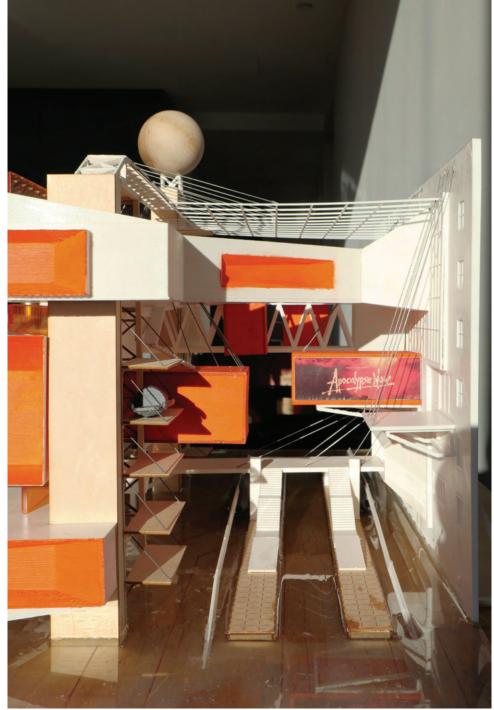




SITE
PROGRAM ARRANGEMENT
ATTACHMENT TO SPRING STUDIO

The project is directly attached to the spring studio, with three sky bridging of circulations, and many of the new studio spaces are suspended in the air and attached to the two vessel storage towers, with tensile connection.



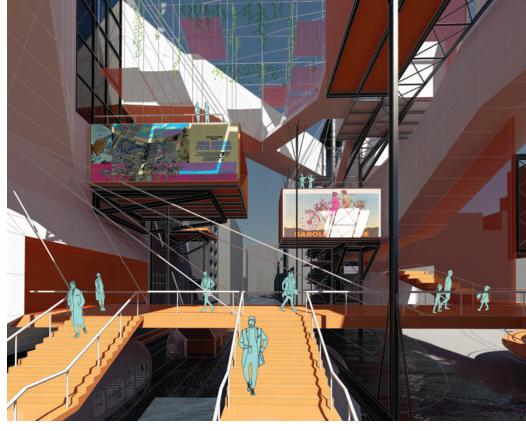


SECTION OF NEW STRUCTURE AND ITS RELATION TO EXISTING BUILDING

From the drawing of the section, and the picture of the physical model, we can see the new program: emergency response, auditorium, photography studio and sky bridge, anchoring on to the vessel storage tower. When the

in-between subway (1 train) will be flooded, the new subway system is giving a new arrival approach.

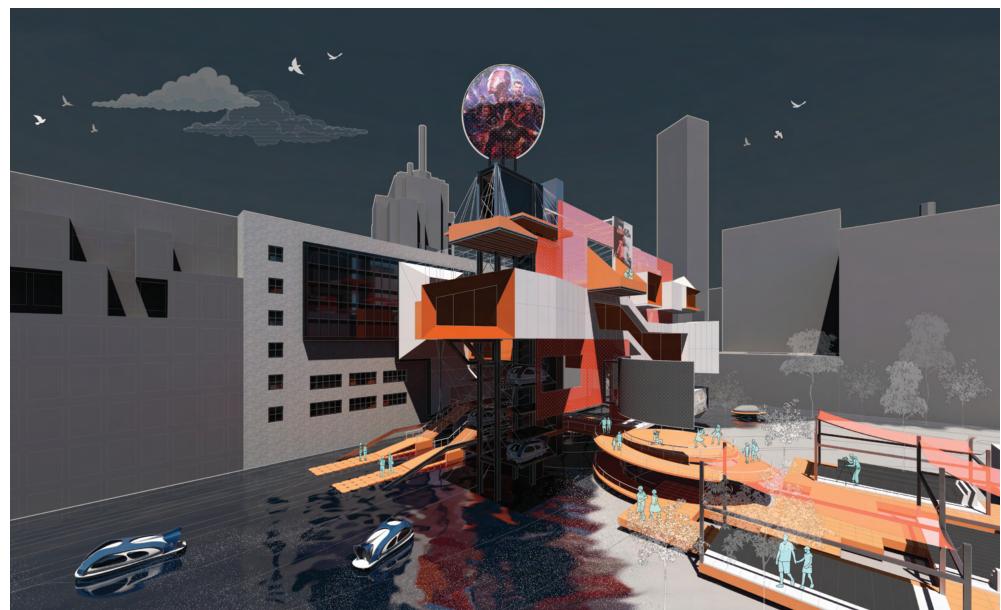


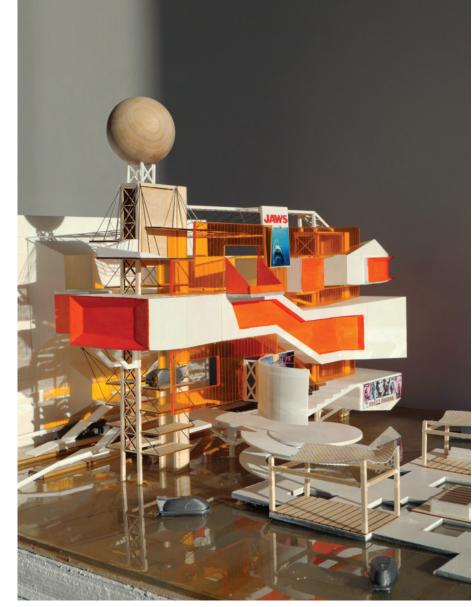


FACADE APPROACH

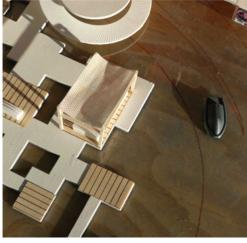
The project is mainly dedicated to the "Tribeca Film Festival", and to film and entertainment related territory. The facade of the new structure is using aluminum panels and glass for the volumes, in order to be light weighted and a big piece of mesh to become the new facade of spring studio. Incorporating the LED screen on the facade, which will broadcast film related video to the public, to enhance the influence of Tribeca Film Festival to people's daily life.







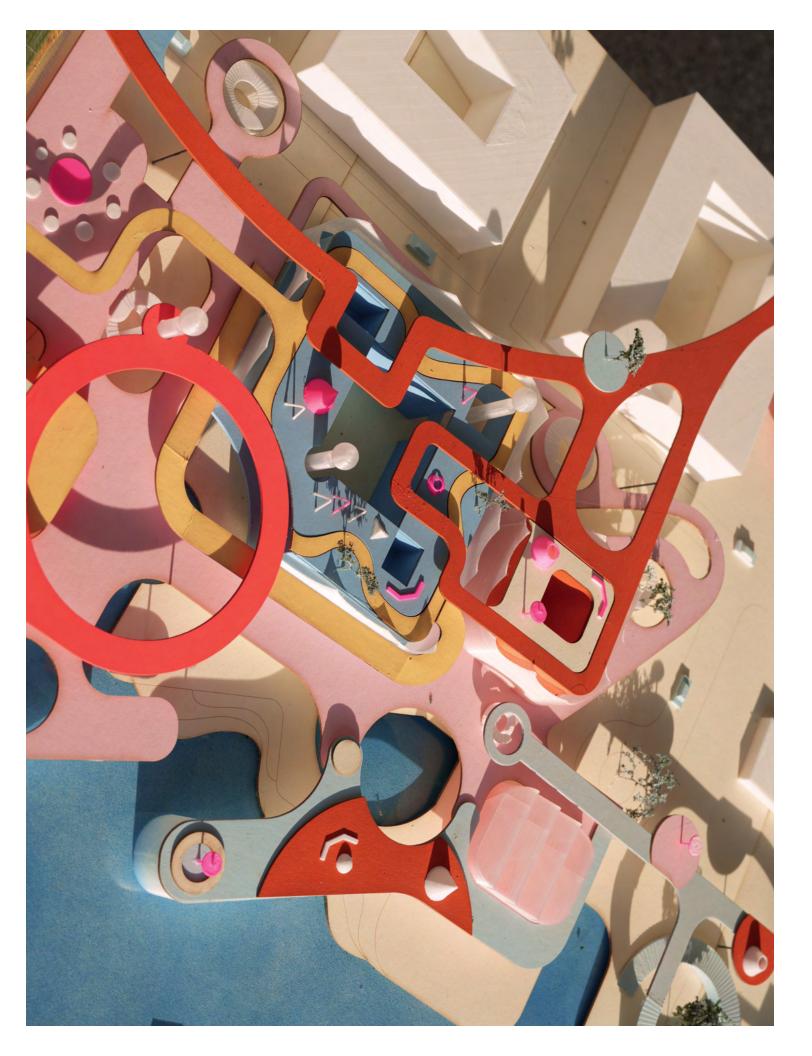






FACADE APPROACH

The project maximized the advantage of tensile structure, and lightweight material such as steel, aluminum panel, and mesh. Different pieces are mostly anchored onto the vessel storage towers, which serves as the core of this new structure.



NORHAVEN "FUN PALACE"

SP 2024 STUDIO COPENHAGEN

This project is an art and culture center dedicated to disabled artists and performers, located in Norhaven, Copenhagen, Denmark. It is a complex that is integrated with living space for disabled artists, performance space, practice space, dining area, exercise and amenities programs. Bringing art and culture elements from Copenhagen as the driving force, the project implements the color scheme of the city, the mobility and exercise culture within people's daily routine, such as biking and river bath, as some most dominant and appearing design elements. To test out different mobility devices people will be on, no matter on bicycle, wheelchair or skateboards, the intersection of path and speed become the crucial moments to be tested out. The platform and routes are meant to fulfill people's daily exercise needs.

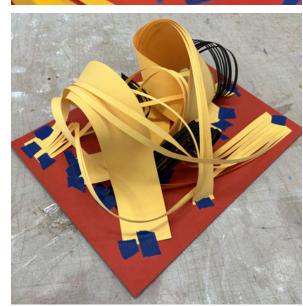
RESEARCH ON COPENHAGEN ART & CULTURE INSTITUTION





EARLY STAGE STUDY MODELS







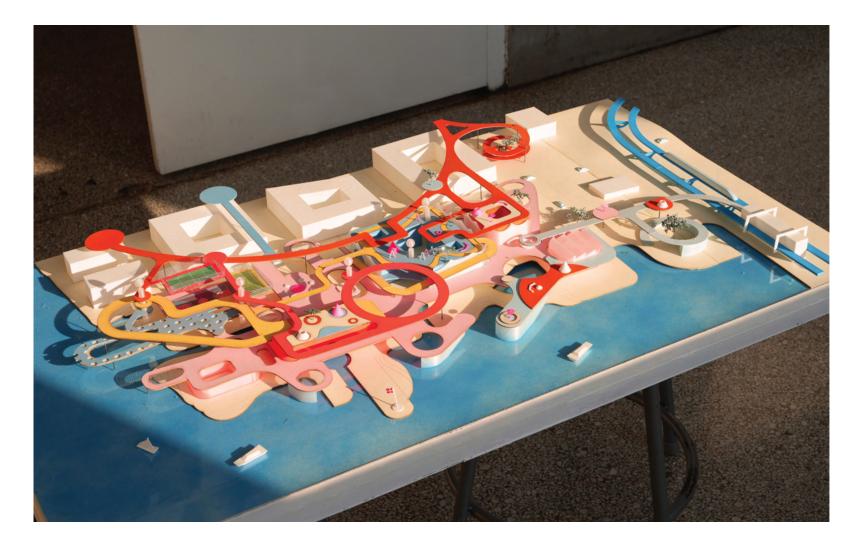
Intersection of Movement
Collision & Overlapping Path
Variation on Speed
Rigidity VS. Softness

PROJECT OVERVIEW

The project is located in the area of Norhaven, Copenhagen, on an empty lot, and is associated with the future master plan provided by COBE. The lot area is 850 ft by 400 ft.

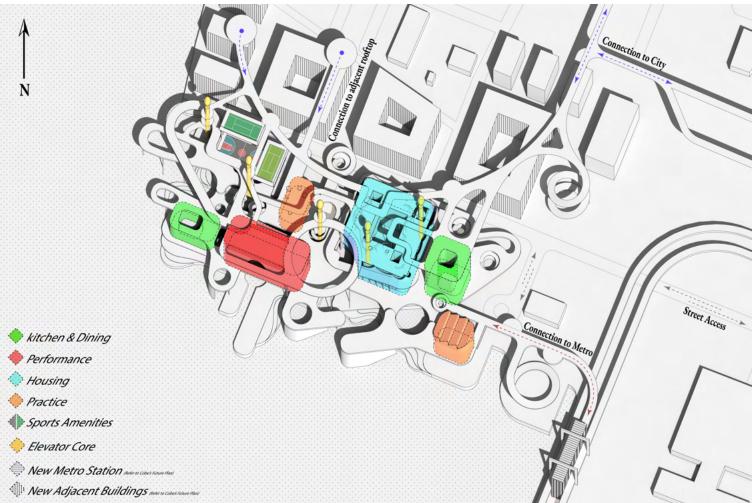
The project emphasized on:

State of Play
City Edge Manipulation
Connection to Water
Link with Future City









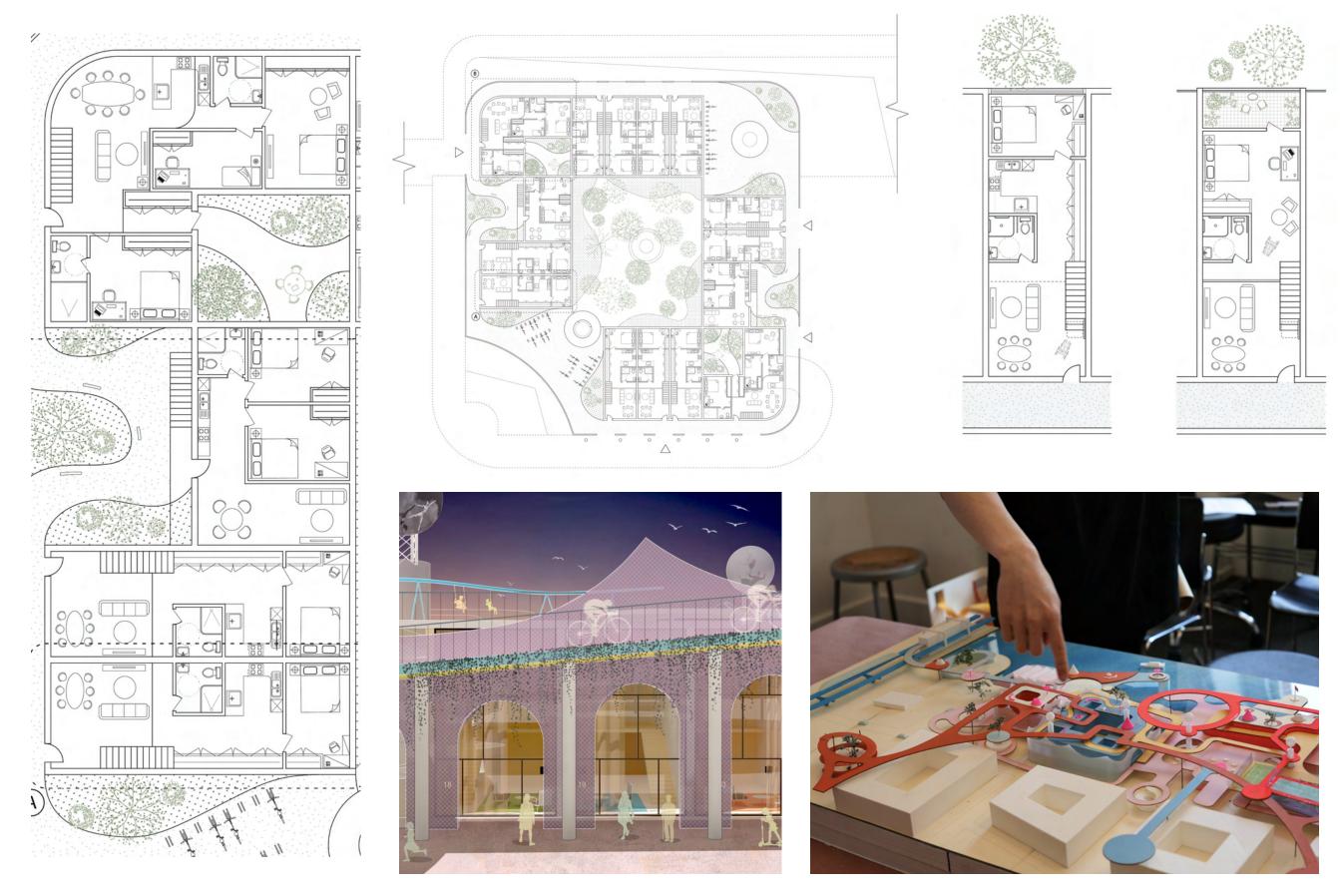




PROGRAM DIAGRAM

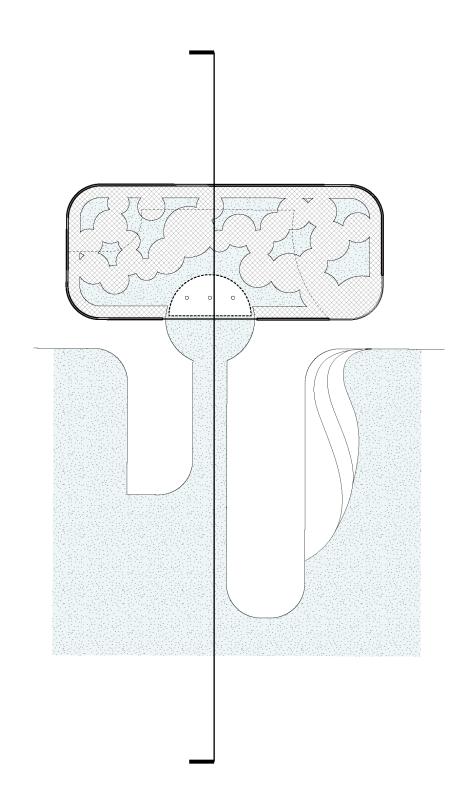
The complex consists of housing units (long term & short time), which will be located around the center area, and kitchen & dining, performance space, practice area, sports amenities as the supporting programs.

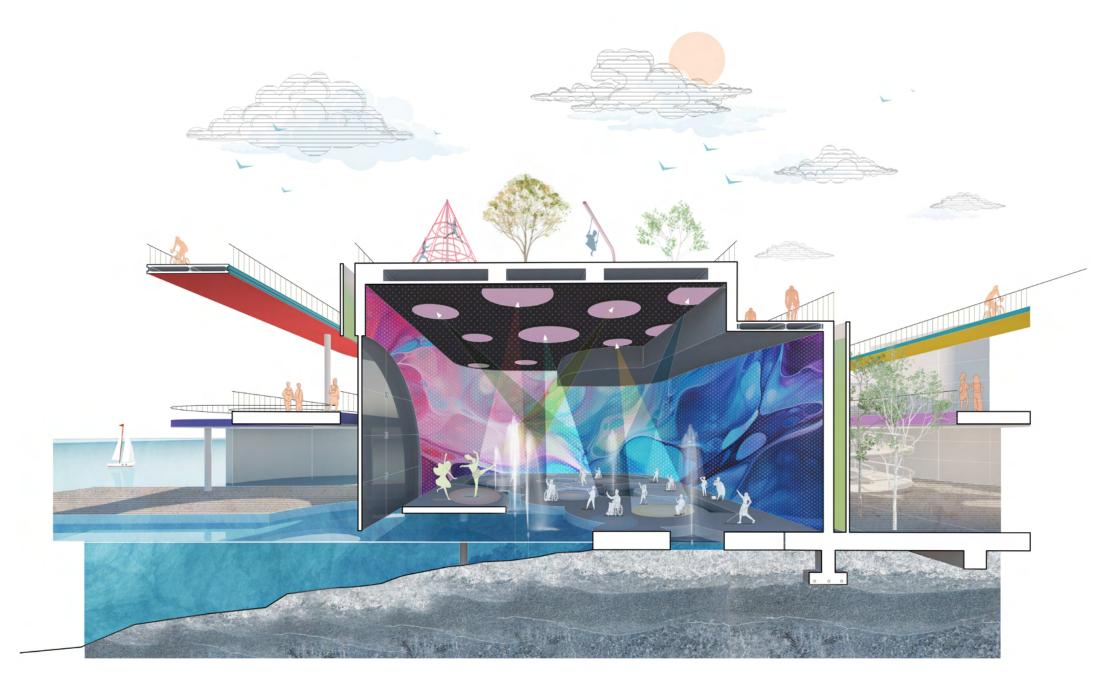
Pictures of physical model.



Housing Unit Design

Performance Space Design



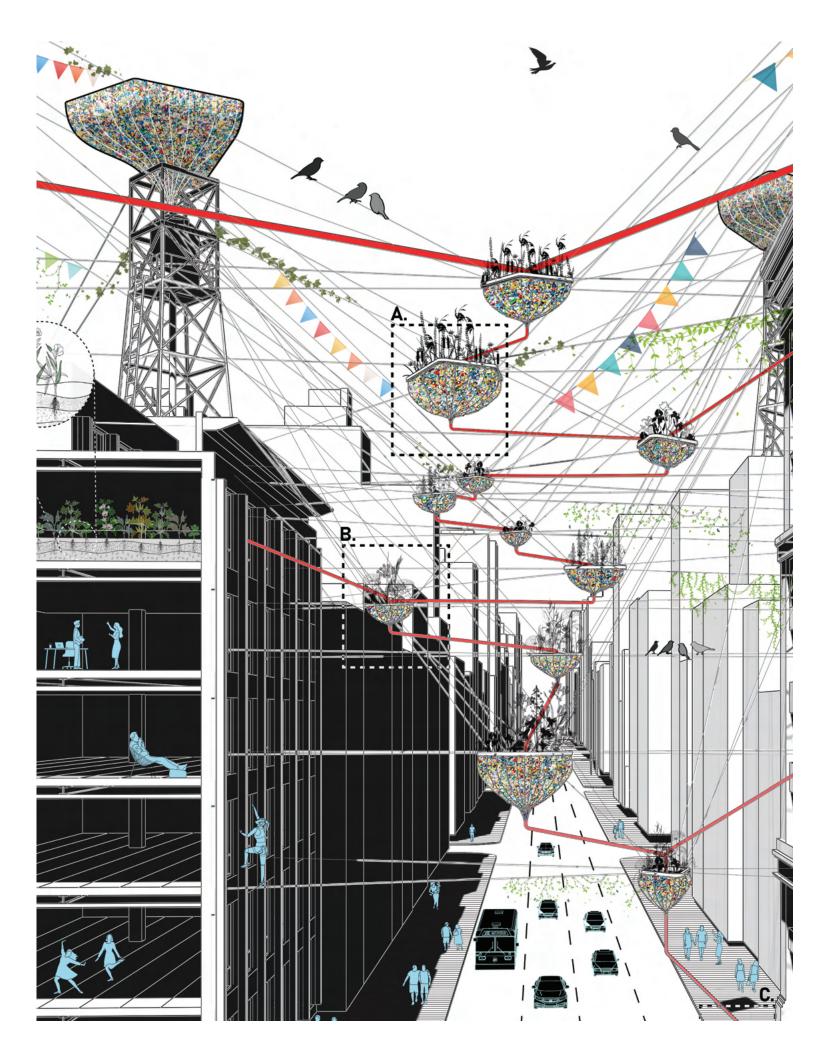


The performance area is right next to the edge of the water, because of that, I decided to connect the water and the interior space, letting the water penetrate into the interior, and performers can cooperate with water with their performance with an additional layer. Audience will be standing or seated on islands that are surrounded by water.

VIGNETTES



Close up moments to express the ideas of collision, intersection, and meandering of the project.

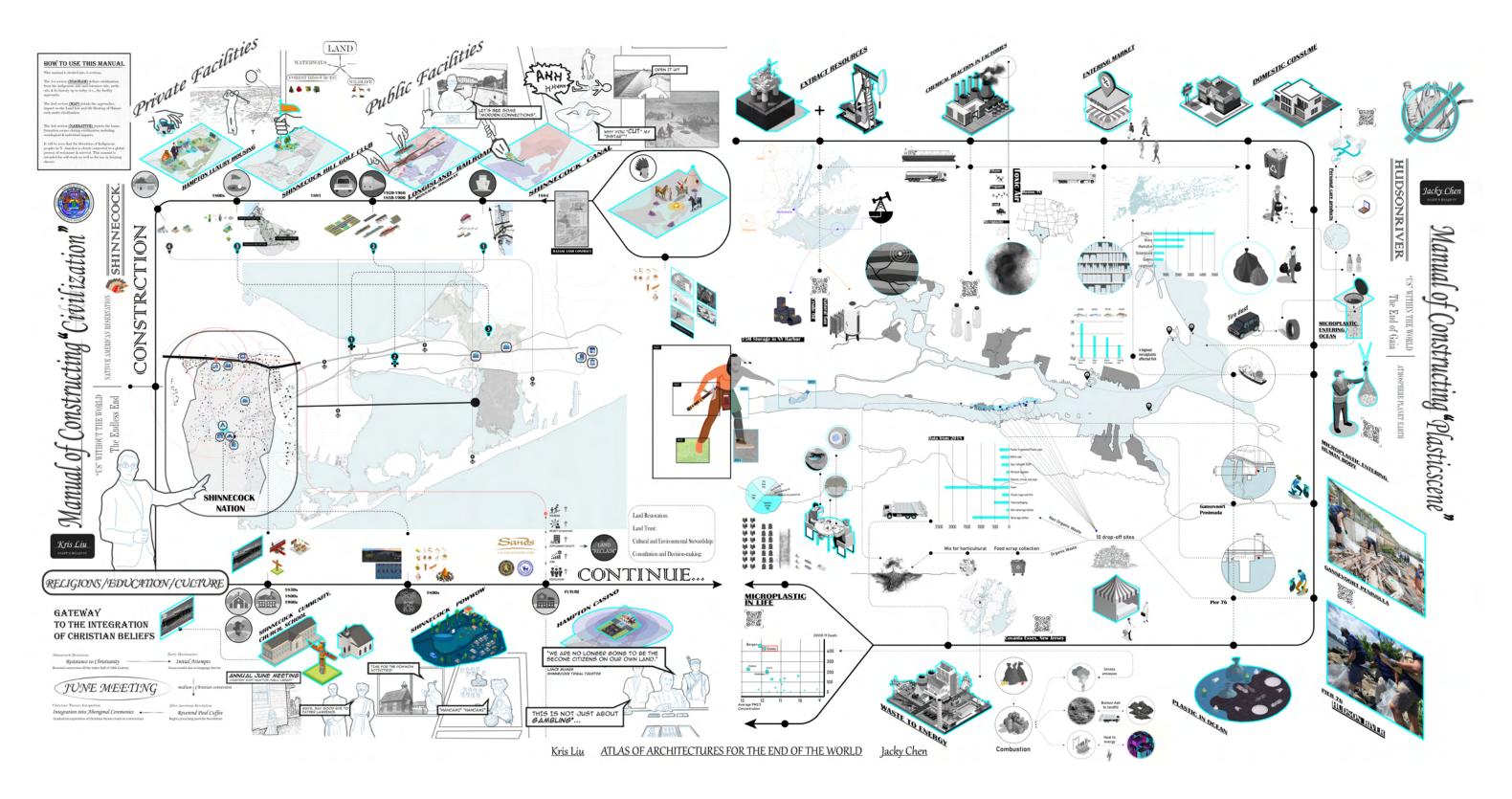


WATER GLITCH

SU 2023 STUDIO NEW YORK

The project began with an investigation into the presence of microplastics in rivers, water systems, animals, and ultimately, the human body, posing significant health risks. It sought to unveil this issue and explore the potential use of biological techniques for resolution. A proposed architectural installation suspended above Broadway in lower Manhattan, filled with plants designed to filter water, could have a profound impact. By bringing this hidden issue to light and involving citizens in its oversight, the installation not only raises awareness but also facilitates water filtration through designated plant pods. Ultimately, the goal of the project is to demonstrate that certain plants and biological methods can effectively extract microplastics from water, thus aiding in water filtration and reuse.

RESEARCH COSMOGRAM



Research on the matter of Microplastic

Drawing with Kris Liu

