





01

SHORE, CITY

Imagination of Immigrant Housing on Coney Island

Summer 2023 Partner: Jianyu Zheng Instructor: David Moon

Coney Island has a history of immigration and continues to welcome newcomers, inspiring our development of a prototype. This prototype shows the possibilities for more future immigrant housing that can respond to emergencies and serve local residents.

With the sense of gradient in urban scale, the immigrant housing also follows a gradient in layout and section, ranging from temporary to permanent, public to private, light to heavy, new to old...



Site: Floyd Bennett Field Reuse the abandoned airport as an entrance to the living place for mi-grants on coney island, with tempo-

rary functions as a landing site

Terminal on coney island Include a terminal on the east side for migrants to land on coney island and then transported to different living

Site on coney island Renovate and add new designs to existing building on coney island for mi-grant housing and community, which also serves local people and responds

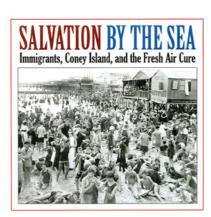
Potential area As an area of connection between coney island and Floyd Bennett Field, containing new water shuttles connected by piers

Analysis of where and how immigrants in NYC come from & Potentials of utilizing the site

The Distribution of Existing Refugee Shelters in NYC

Since tens of thousands of migrants began arriving in New York City last year, the administration of Mayor Eric Adams has searched for one place after another to house them. The new arrivals have opened a fresh front in the public relations crisis over migrants, as public school parents led a series of protests over the use of school gyms this week. By Wednesday evening, migrants were moved out of a handful of gyms where they had been staying, mostly located in Brooklyn, though the city said that the plan to use about 20 gyms could be revived as needed for temporary overflow. Distribution of Different Areas in Coney Island and The Potential Area of Terminal for Immigrants Site and Surroundings



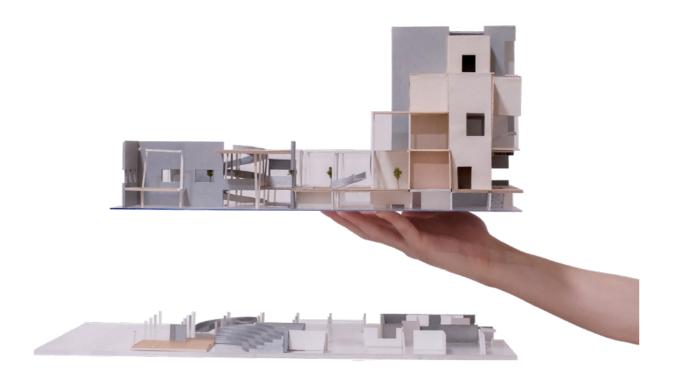


Coney island's history of being an immigrant island, with new immigrants coming



Testing collages of different concepts





Gradient in section, from temporary to permanent. Second level for emergency like flooding







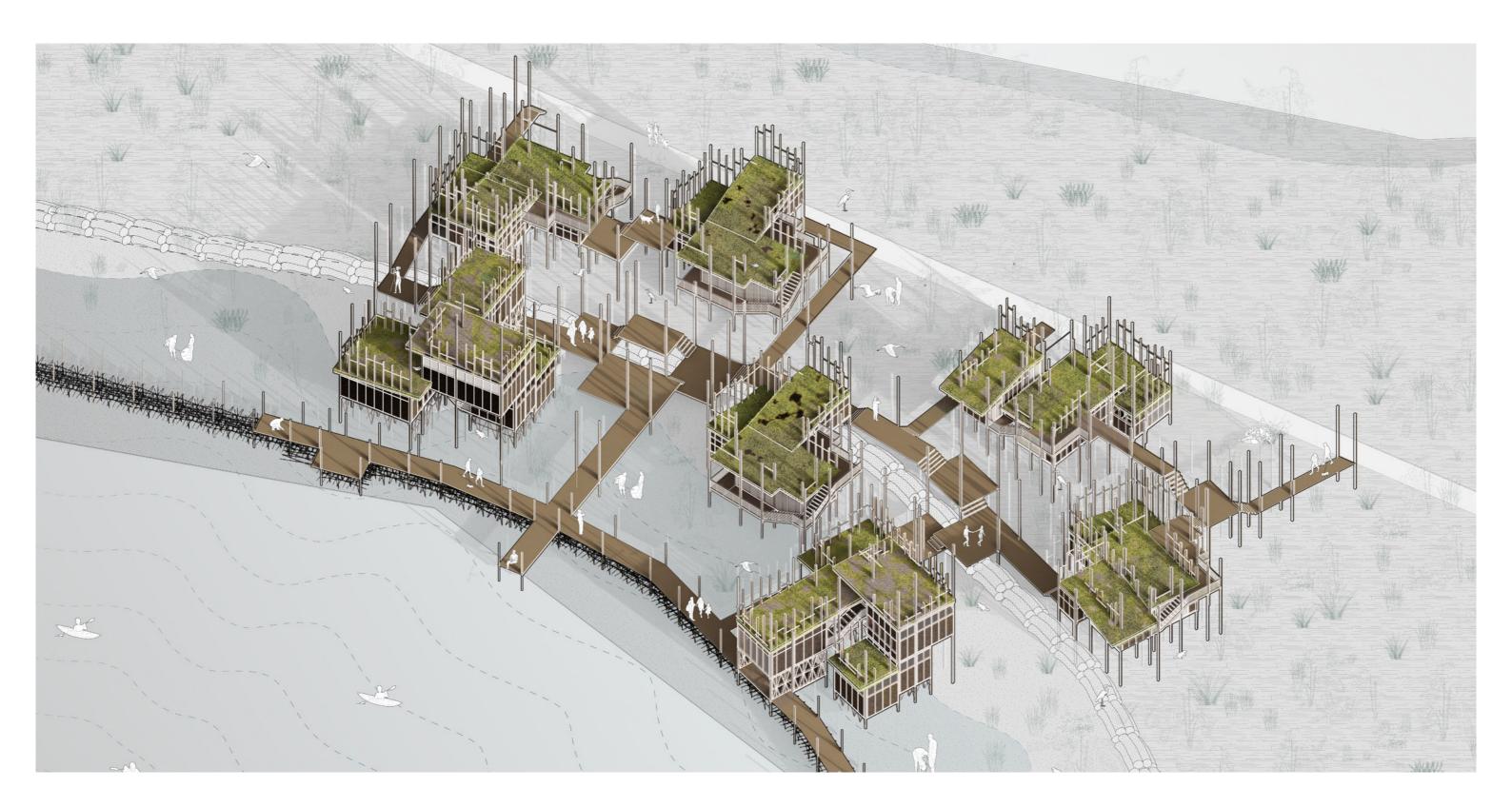
RESILIENCE

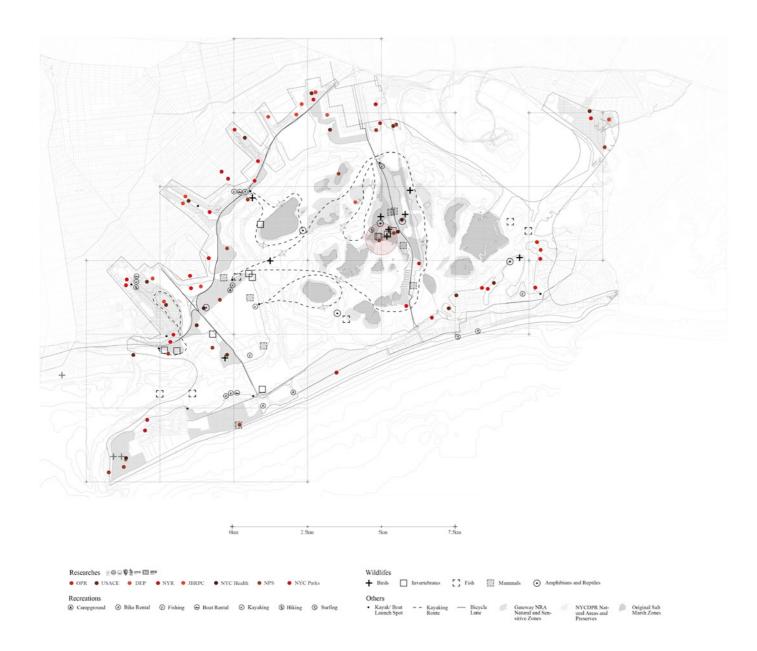
A Rethinking of the Relationship between Humans and Non-humans in Wetland Ecosystem

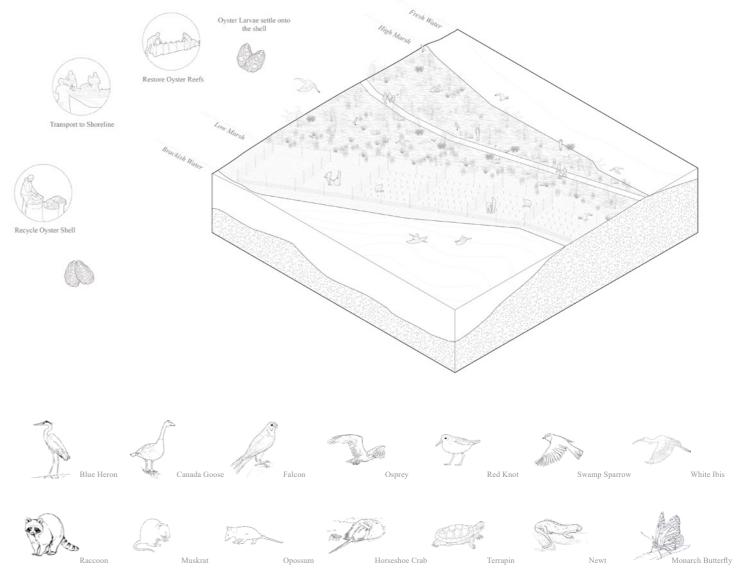
> Fall 2023 | Advanced V Partner: Manfei Shi Instructor: Marc Tsurumaki

Jamaica Bay is a salt marsh landscape that moderates the impact of coastal storms and flooding while simultaneously providing excellent home for hundreds of species.

Here, the relationship between humans and non-humans on the intervention changes accordingly. Column structures remain on site all the time, human-occupied spaces will be adjusted or shifted up, marine species grow in the reef structure underwater, more non-human species are going to habitat in the structure, and to the very future, we can foresee all the human occupancy will be gone, leaving the structures for other species to take over.















Shared Kitchen

Bedrooms & Bathrooms

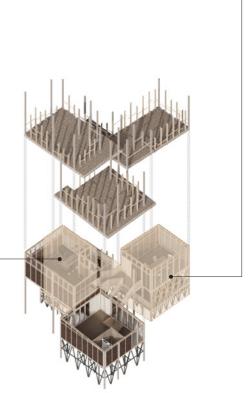


Meeting Room & Observesation Platform Below





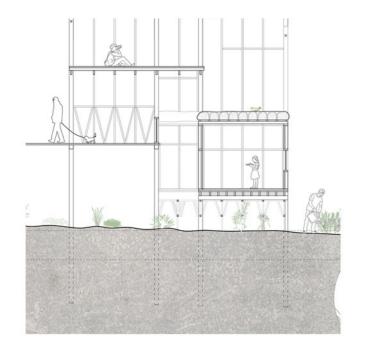


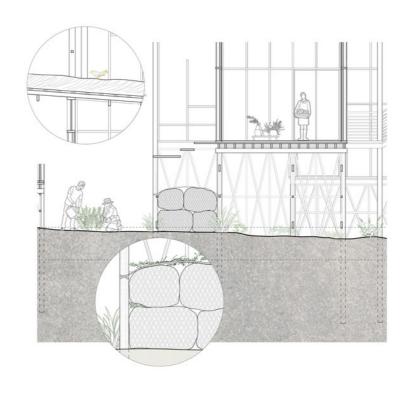


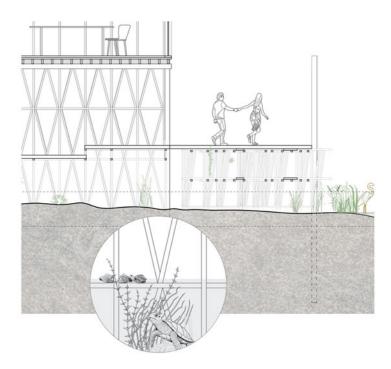
Getaway Cabinets

Research Lab

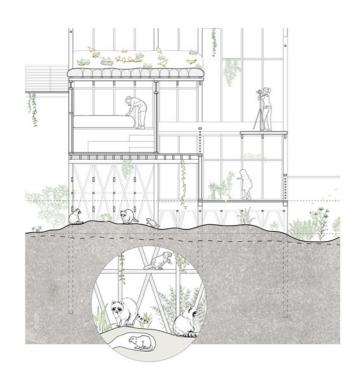


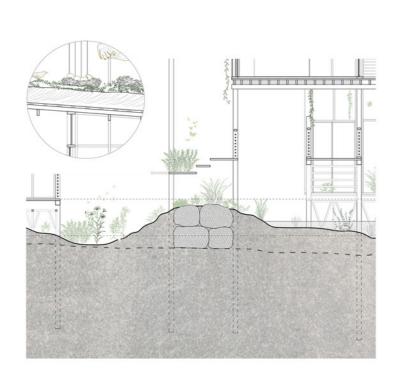


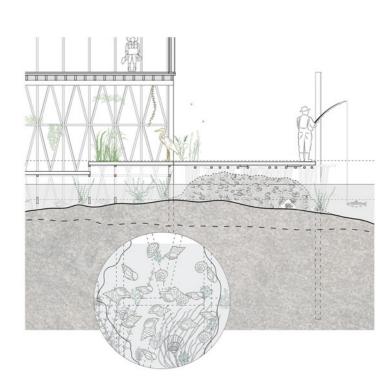




2020s







2060s



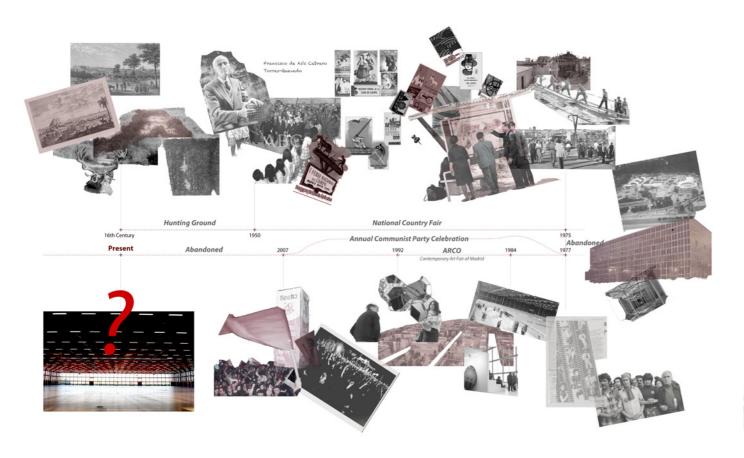


O3 CRYSTAL REVIVE An Exploration of Community Integration and Sustainable Architecture

Spring 2024 | Advanced VI Partner: Shumeng Liu & Shunshan Chen Instructor: Juan Herreros

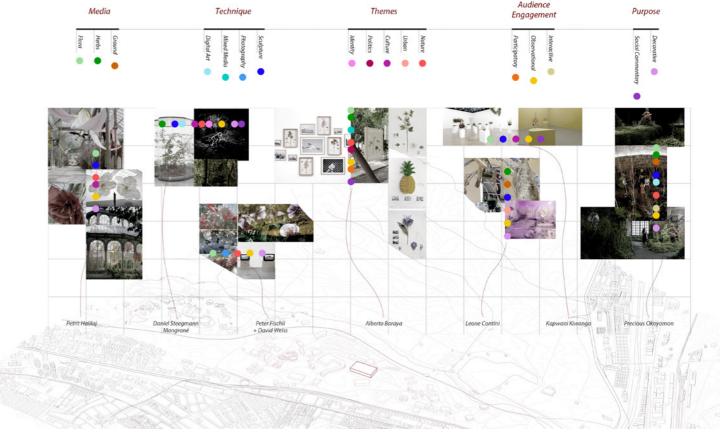
The Crystal Pavilion project at Madrid's Casa de Campo represents a transformative approach to urban development. Originally designed to showcase Spanish agricultural advancements, this project aims to transform the pavilion into a dynamic, inclusive platform. By combining cutting-edge architectural concepts with natural growth elements, the renovated structure will serve as a community hub for art, research, and sustainable farming practices. The design introduces 'pixel farming', a novel agricultural method that integrates with the space's ecological needs and social functions, resulting in a distinct blend of high-tech and natural environments. This initiative not only revitalizes a historical site, but it also encourages social responsibility and community engagement through interactive, eco-friendly designs.



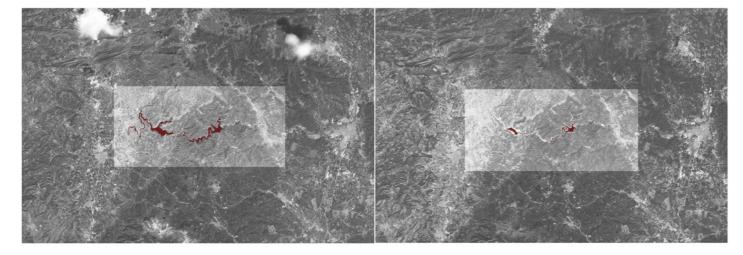


History of Casa de Campo

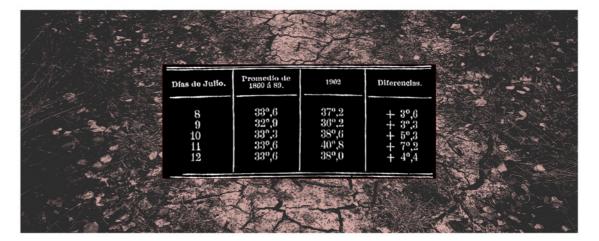
a symbol of Madrid's royal family and a political statement | communal space where locals gather for recreation and cultural activities



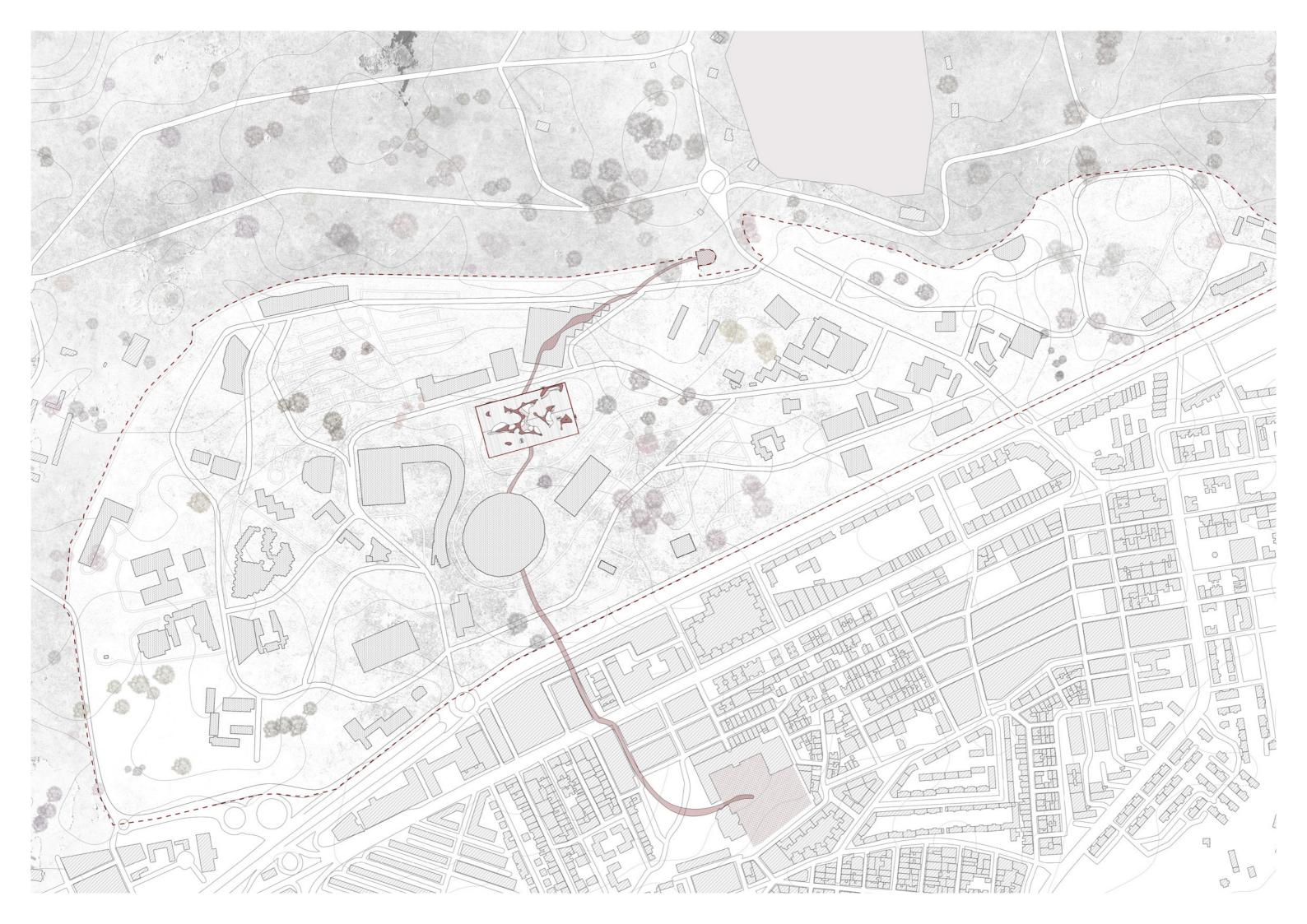
Artists and researchers globally are enhancing urban vibrancy by creatively addressing climate change through innovative farming techniques.

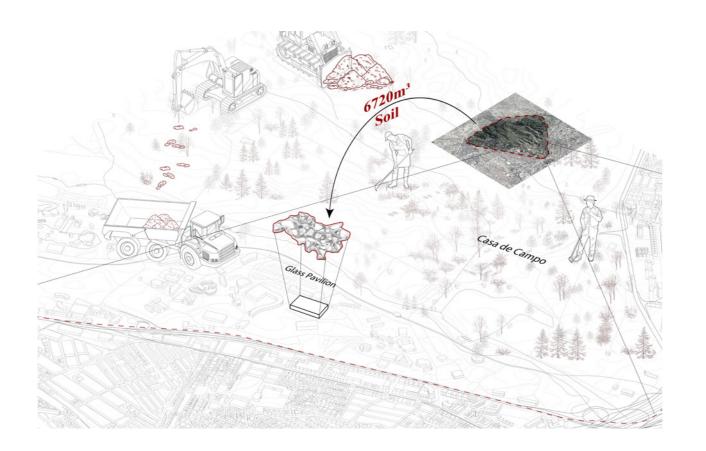


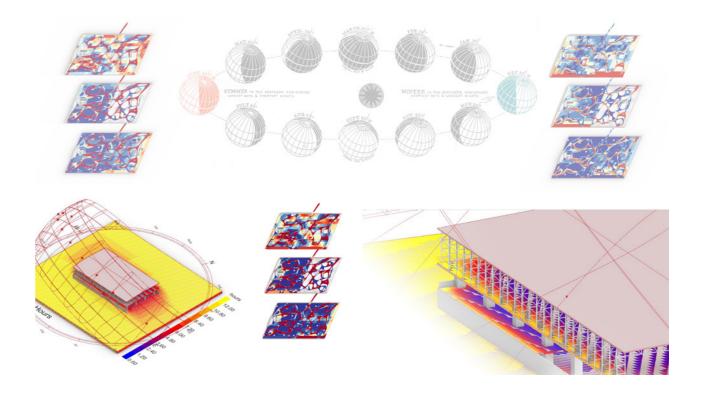
March 21, 2021 April 12, 2023



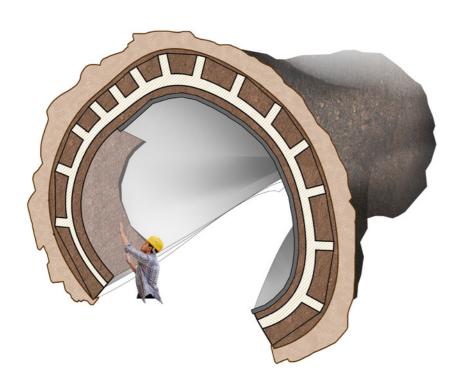
Spain keeps suffering from high temperatures and low rainfall



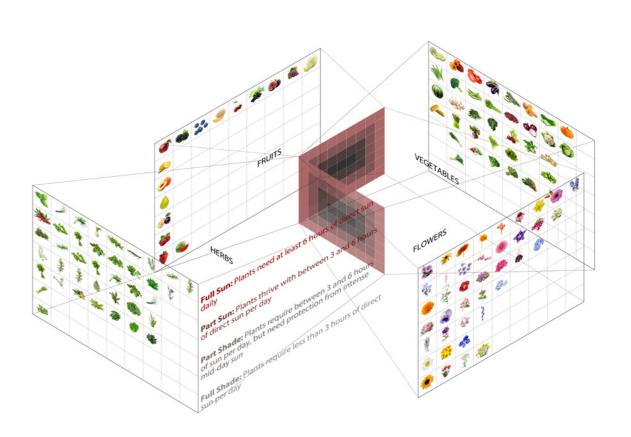




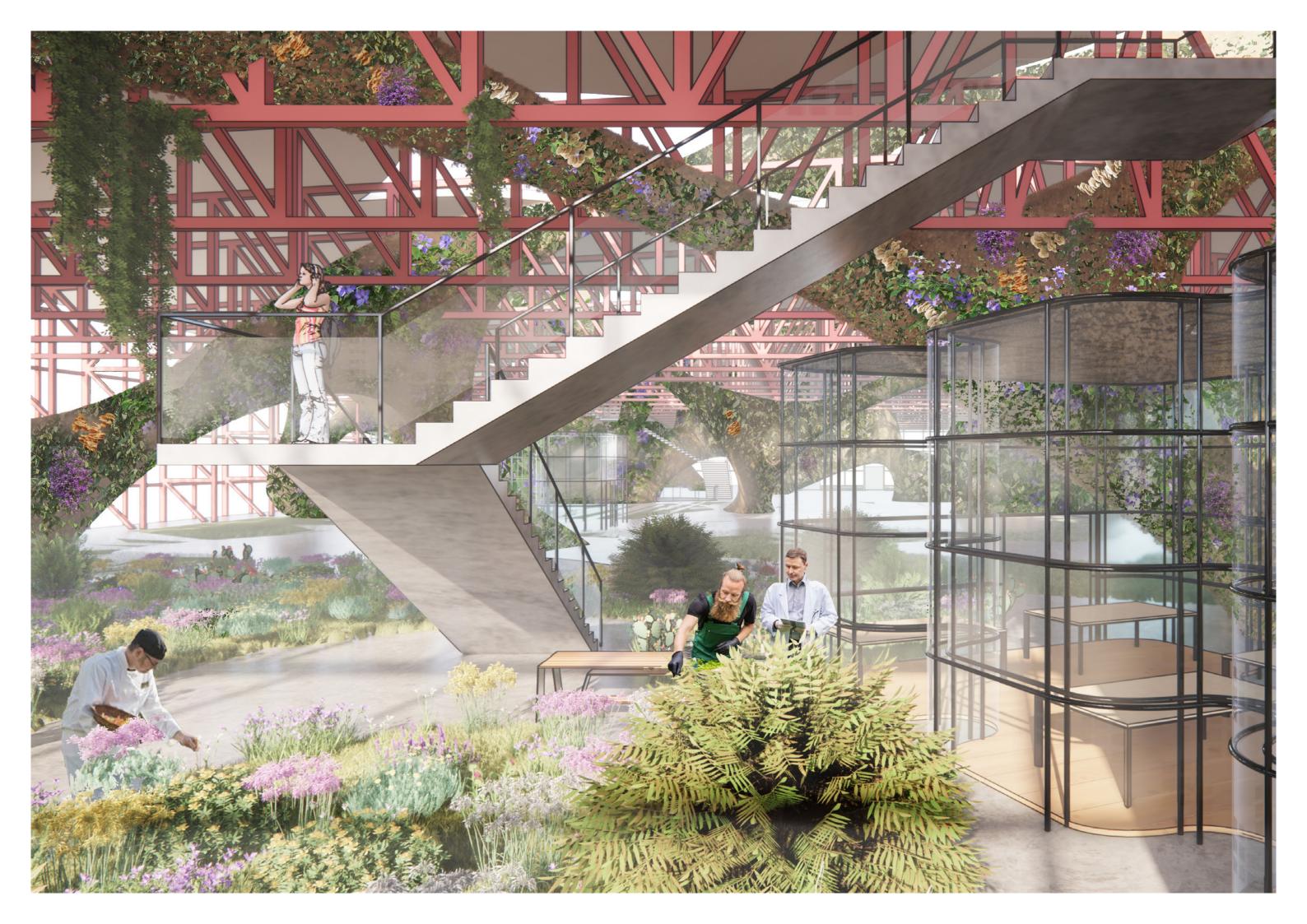
Structure including soil from Casa de Campo



Solar Studies & Pixel Farming strategically placing plants based on solar studies to optimize sunlight and enhance agricultural efficiency









04

FROZEN IN TIME

Spring 2024 | Subject_ObjectPartner: Yifei Dong
Instructor: Suchitra Reddy

The concept draws inspiration from the retreat and potential disappearance of glaciers—a stark manifestation of climate change and the profound interactions between humanity and nature. Through our creation, we aim to not only emphasize the relentless passage of time but also portray the melting of glaciers, highlighting the irreversible impacts of natural phenomena. This underscores the significant role human intervention plays in altering natural processes, reminding us of the urgent need to address our environmental footprint.



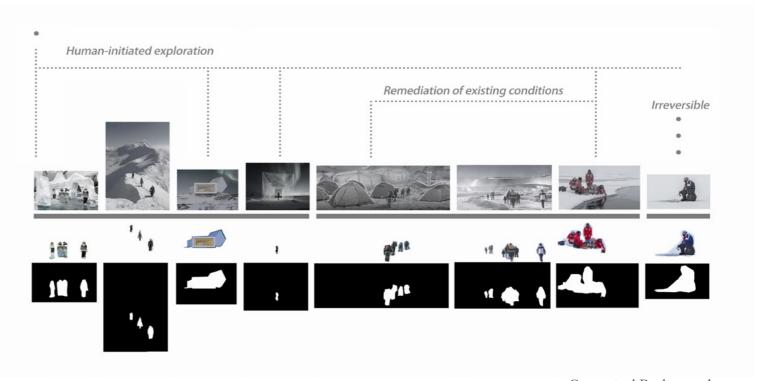
Inspirations



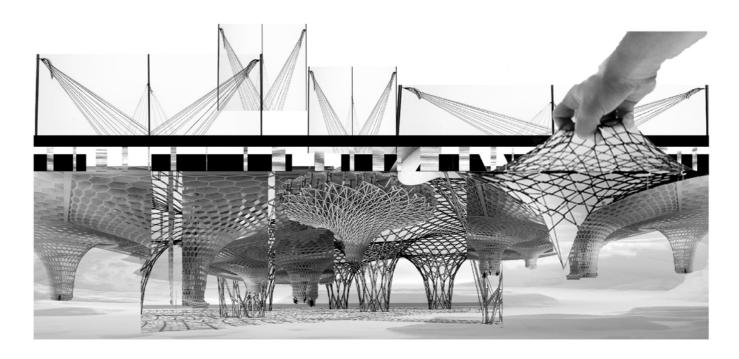
Selsame | Mo Kelman



Candle Grids | Hector Esrawe



Conceptual Background



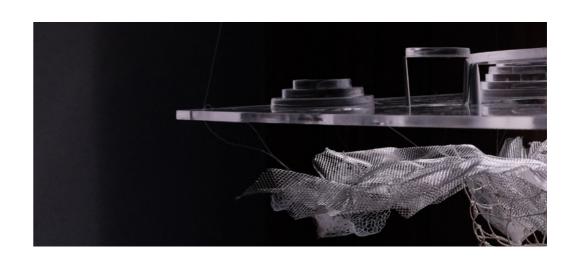
Conceptual Collage







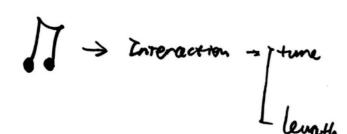


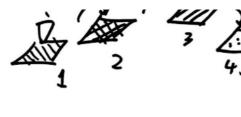


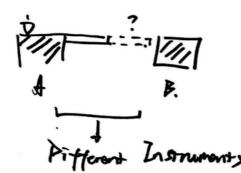












05 ECHO, ECHO, OFF THE WALL

Spring 2024 | Virtual Architecture Partner: Tianhao Shen & Yansong Wang Instructor: Nitzan Bartov

"Echo, Echo, Off the Wall" presents an auditory universe. The game invites players on a journey through musical time and space, where the evolution of soundscapes shapes the very fabric of the gaming experience. The core mechanic revolves around the dynamic transformation of music and sound effects, which have a direct impact on the game's environments, puzzles, and character interactions. The game challenges players to complete tasks and overcome obstacles by manipulating musical elements.

Game Mechanics



Chapter 1 TUNE

Players can hear different melodies when they go to the two doors, which are tips on how to pass the level. The black door is an interference item that cannot be cleared, and the white door is the door that can be cleared. When the player jumps to the grid on the ground, different sounds are produced, and he needs to play the same melody as the prompt to enter the next level.



Chapter 2 LENGTH

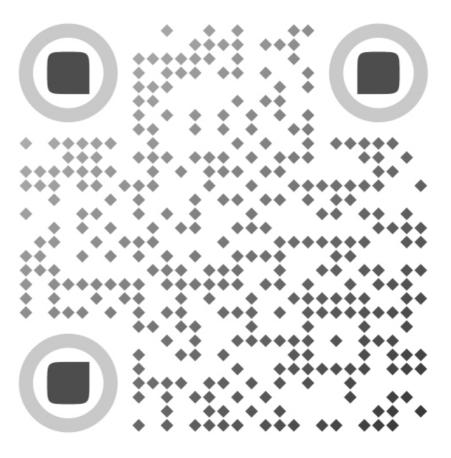
The player is on the platform representing the musical instrument. The left button is charged to produce the musical instrument melody. The board grows vertically. When the left button is released, the melody ends and the board falls down to the next platform. Charging too long or too short will cause the player to fall off the platform.



Chapter 3 New World

After passing two levels, we enter a music visualization world where players can swim freely. The form of music is transformed into light and movement, and is displayed visually in the world.

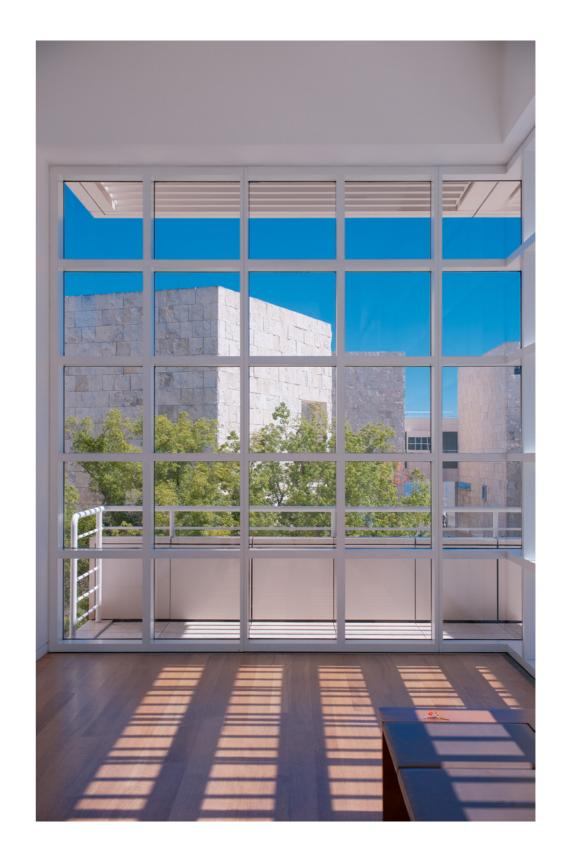
Game Video



https://youtu.be/Deram8O-aE0

06 ARCHITECTURAL PHOTOGRQAPHY

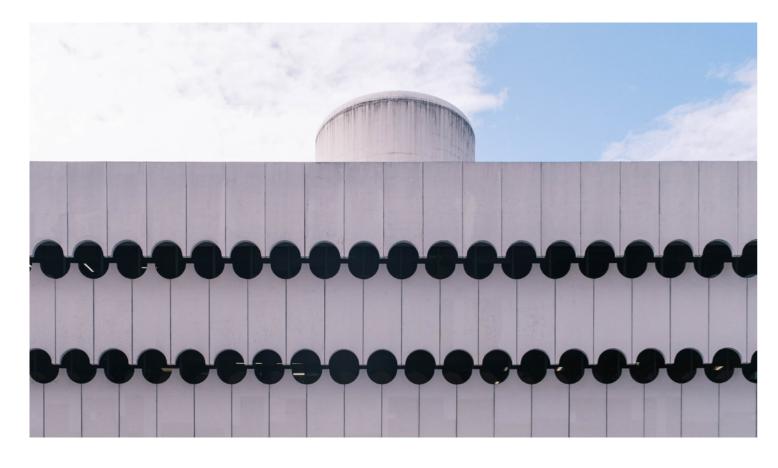
Fall 2023 | Architectural Photography Instructor: Michael Vahrenwald



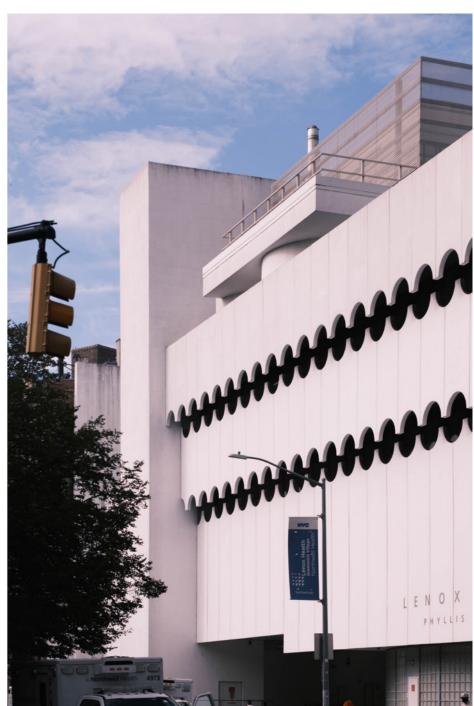


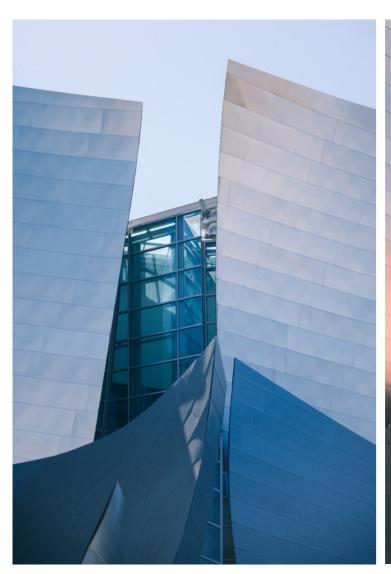


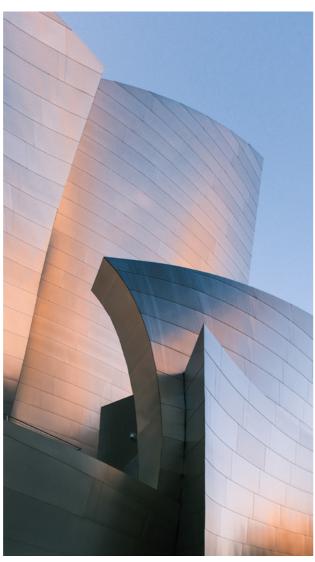








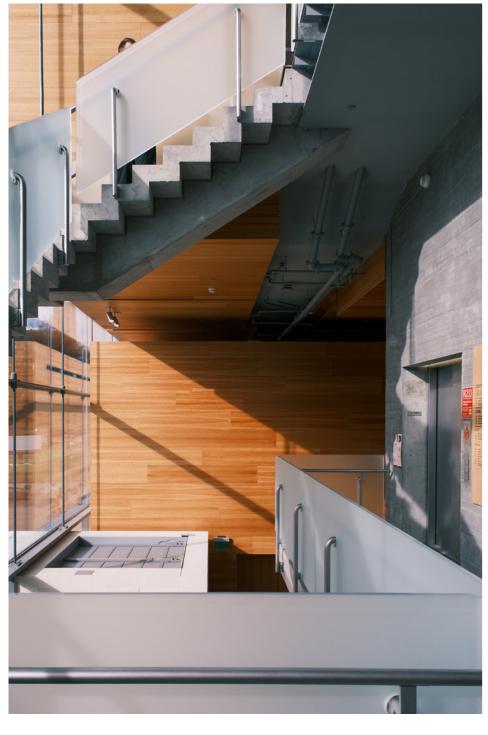




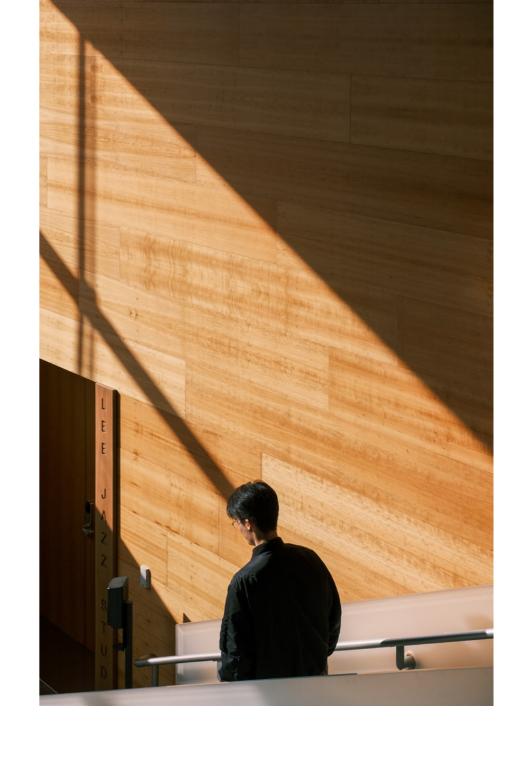




TOPIC: LIGHT







TOPIC: INNER SPACE

TOPIC: INTERACTION BETWEEN ARCHITECTURE AND PEOPLE

