LINHAO ZHOU

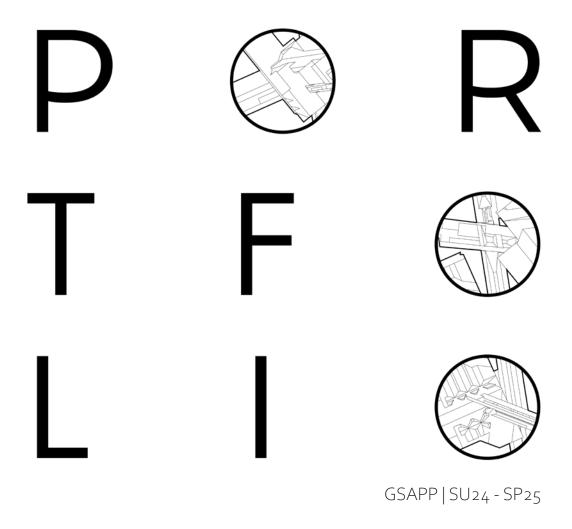


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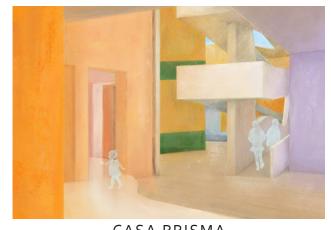
Linhao (Eric) Zhou

I like architecture because it demands excellence across many disciplines to achieve greatness. It fuels my curiosity, allowing me to explore diverse fields and connect elements that captivate me.

I love architecture because it engages me on an intimate scale, revealing its character through intricate details, while on a grand scale, it sublimes me with unarticulated emotions and a sense of awe.

I have always been drawn to the smaller, more nuanced details—not solely in terms of structure or formal but in how they resonate emotionally and operate in practice. To me, architecture, at its core, is an unfolding experience shaped by its details to **animate, resonate, and articulate**.

This portfolio showcases a broad spectrum of my architectural interests at **GSAPP**, including social interaction, spatial experiences, philosophy, and technology.



CASA PRISMA
Spring 2025 | Design Studio | Geriatric

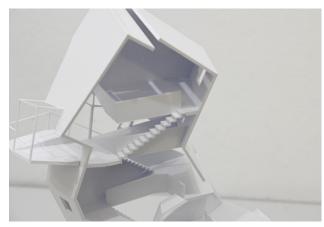


REACH WITH TREMOR

Spring 2025 | Design Seminar | Automation



LITTLE WETLAND
Fall 2024 | Design Studio | Wetland



HOUSE OF CHANCE
Fall 2024 | Design Seminar | Art & Philosophy



THE TRICKLE (Part I)
Summer 2024 | Design Studio | Installation



NOCTURNAL EMBRACE (Part II)
Summer 2024 | Design Studio | Emotion

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01

CASA PRISMA

A PLAYFUL GERIATRIC RENOVATION ON SHAKYGROUND

Location: San Rafael, Mexico City

Instructor: Gabriela Carrillo

Thomas de MonchauxRita

Partner: Zhuofan Song

Key Words: Reflection, Care, Re-Densification

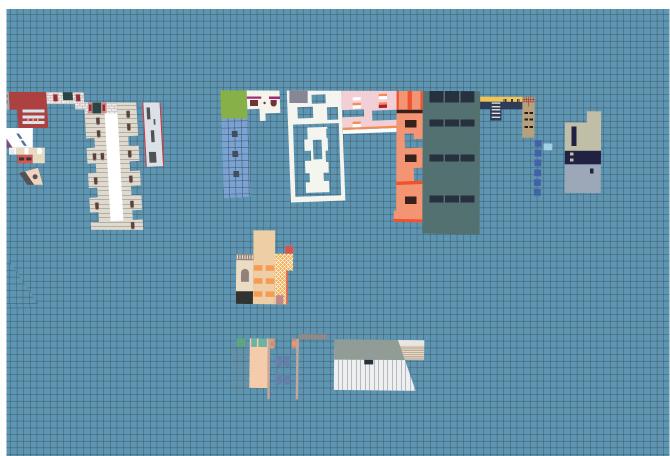
Mexico is undergoing a significant demographic shift, with the median age rising from 27.9 in 2015 to a projected 42 by 2050. During this period, the population aged 65 and older is expected to triple, reaching 20.2%. This transformation places increasing pressure on limited social resources, making aging a challenge to both livelihood and dignity in the face of persistent age discrimination.

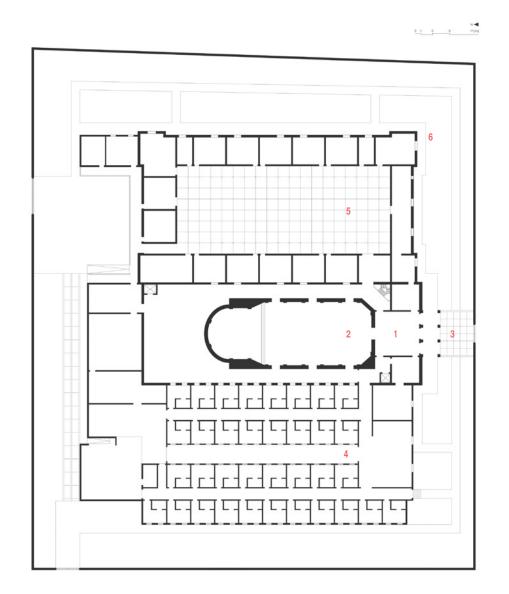
Color, particularly in a vibrant urban context like Mexico City, is vital in **shaping emotional and spatial experience**, especially for elderly residents who spend extended time indoors. Color is dynamic, shifting with light, context, and memory.

This project seeks to densify an existing 50-unit geriatric center into a joyful 100-unit geriatric social housing by introducing playful architectural elements inspired by the church's peculiar presence to improve accessibility and engagement. More than just architectural gestures, these elements are designed to spark joy, curiosity, and movement. They create moments of surprise and delight, encouraging the elderly to interact, explore, and feel young again.

















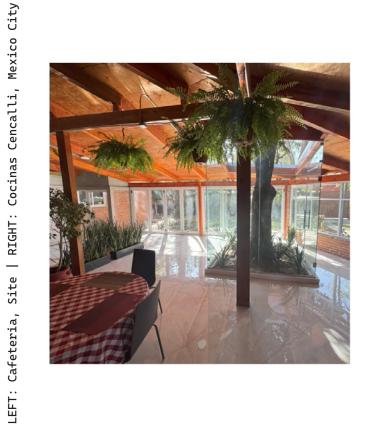




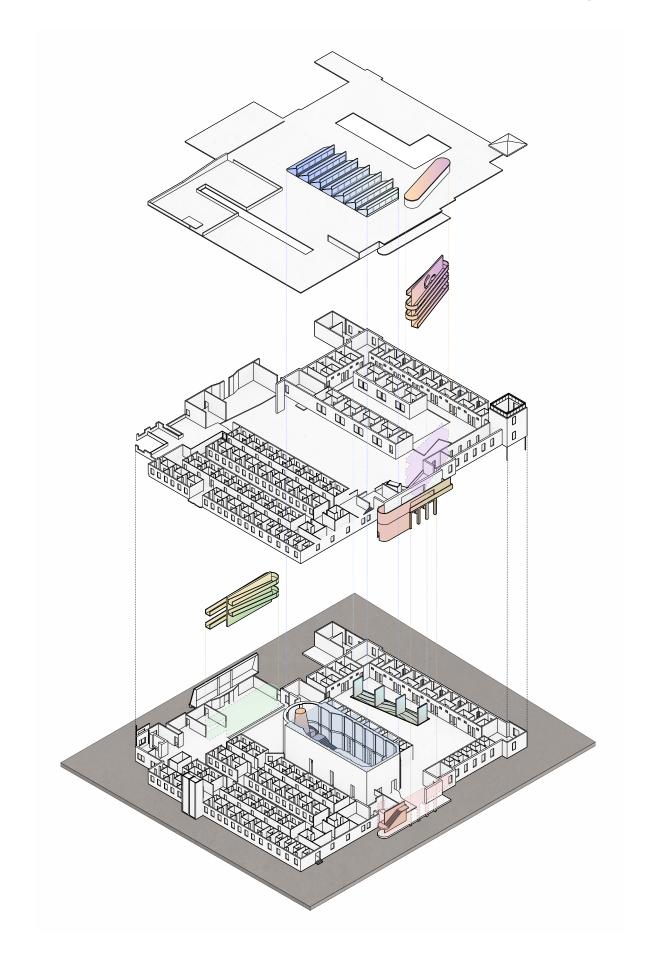
A reflective study was conducted on-site to observe how color and light interact with the built environment. For instance, red walls cast pink hues onto adjacent white façades, while worm's-eye views of balconies revealed layered color grids shaped by depth, material, and shadow. These chromatic relationships were mapped to reveal each structure's distinct architectural character and material choices. These insights inform the design concept of Day House, Night House, and Reflection, which transformsa19th-centurygeriatriccenterintoa100-unitsocialhousingcomplex. Programsare organized by day and night use and distributed across varied heights to encourage exploration and accessibility. Playful architectural interventions, such as ramps, light tunnels, sawtooth roofs, and water features, are sensory catalysts, inviting movement and sparking curiosity. Together, these elements reframe aging as an active, communal, and joyful experience.

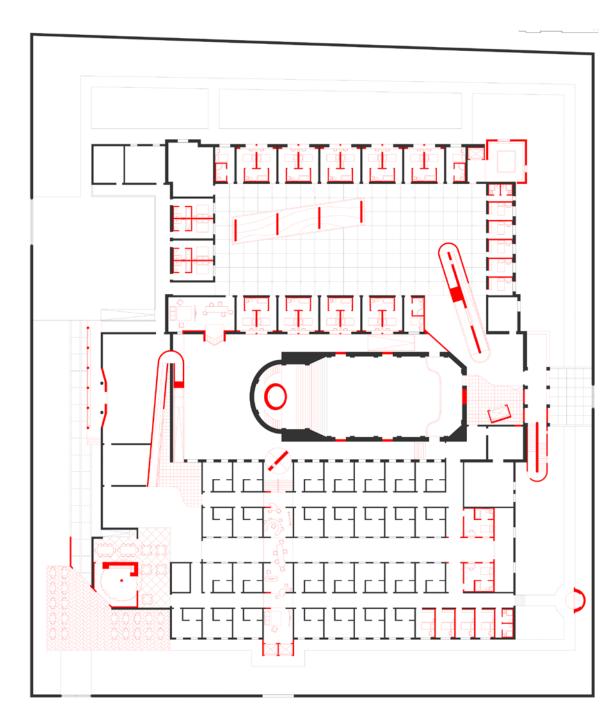


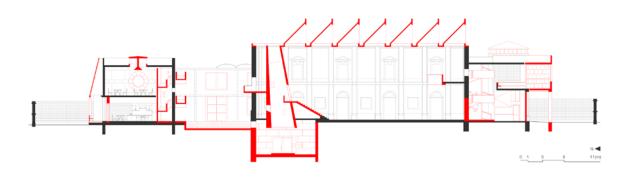


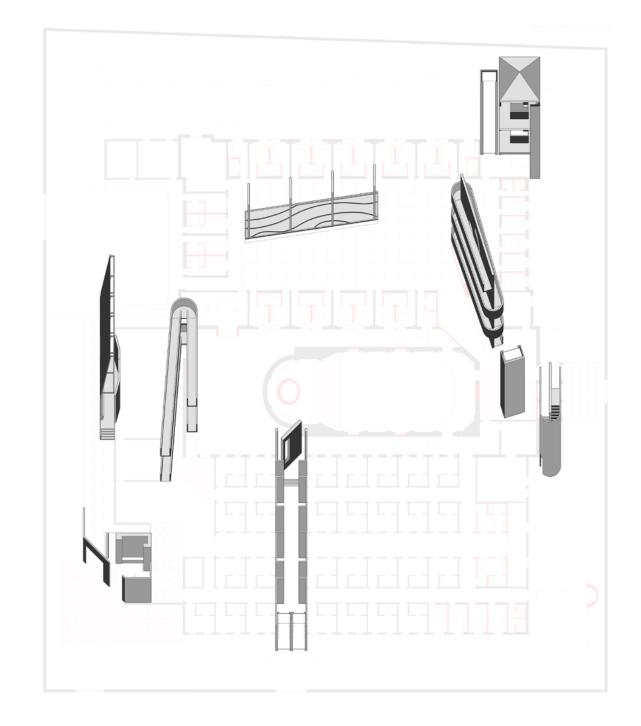


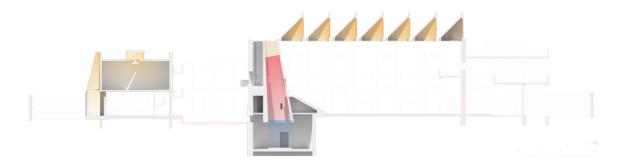












SP₂₅ - GSAPP



SP25 - GSAPP Linhao (Eric) Zhou Design Studio



REACH WITH TREMOR

Linhao (Eric) Zhou

Instructor: James F. Nanasca

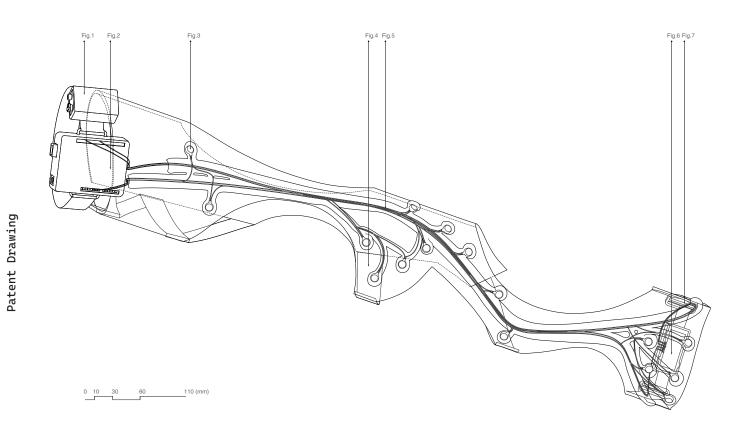
Yinhui Dong, Jieyu Yang, Zhuofan Song Team:

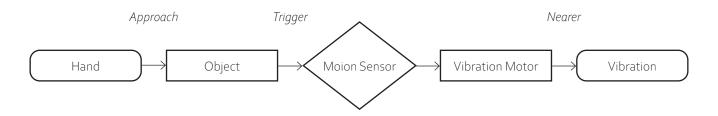
Key Words: Automation, Sensation

Reach With Tremor is a **provocative**, **sympathy**driven design that enables users to physically engage with the experience of intention tremor, a neurological condition characterized by increasing hand tremors as the hand approaches a target. Commonly associated with cerebellar damage resulting from stroke, multiple sclerosis, or traumatic injury, intention tremor renders even the most routine actions.

This project does not seek to offer a clinical explanation or therapeutic solution. Instead, it presents a wearable automaton that fosters empathy through embodied sensation. By simulating the disruptive nature of tremors, the device encourages users to understand the physical and emotional burden better. It visualizes the invisible struggles of those with neurological disorders, inviting a more profound and embodied understanding.

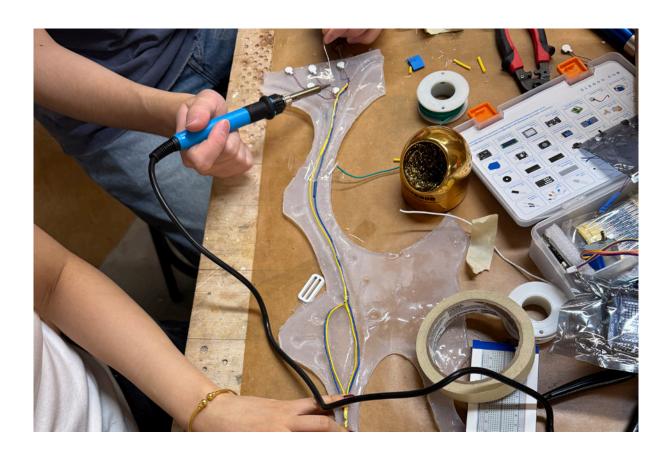


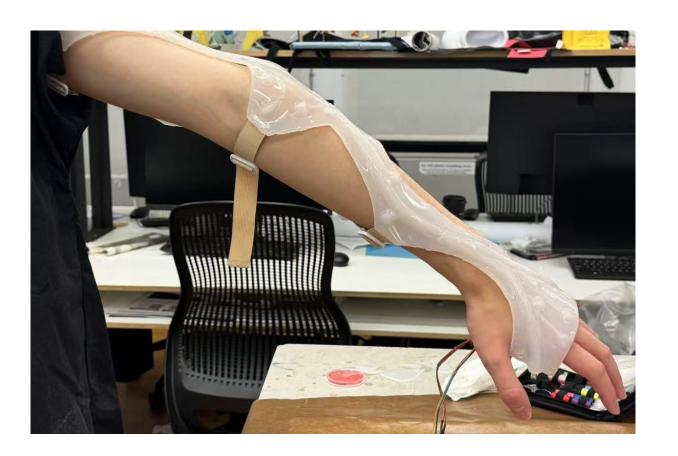




The design process began with experiments using an Arduino, motion sensors, and vibration motors. The system mimics the uncontrollable shaking associated with intention tremor by triggering vibrations as a hand nears an object. Early iterations focused on sensor placement and timing, eventually positioning the sensor in the palm to enhance realism.

The system operates via proximity sensors embedded in the palm that detect the distance to nearby objects. As the hand approaches a target, vibration motors are activated, simulating the onset of tremor. These components are powered by a microcontroller and battery in the wearable shell. The fabrication entailed extensive digital modeling, mold creation, silicone casting, and electronic integration—the final wearable features are adjustable elastic straps for comfort and fit while maintaining flexibility at key joints.













Design Studio

LITTLE WETLAND

Linhao (Eric) Zhou

RETHINKING WETLAND IN NEW YORK CITY

Location: Manhattan, New York

Instructor: Michael Wang

Partner: Sitan Zhu

Key Words: Wetland Restoration, Public Intervention

Wetlands are crucial natural filters, yet economic development has caused a 60% loss in New York. Now overwhelmed by humanmade contamination, many wetlands risk turning into toxic "Pandora's Boxes." Traditional restoration methods often worsen the issue by disturbing polluted soil. Wetlands urgently need an upgrade.

Our project tackles two key challenges: self-sustainability. and unawareness To address unawareness, we propose integrating wetlands into urban areas as accessible educational spaces. This increased visibility fosters public understanding and appreciation of their essential ecological roles. For self-sustainability, we introduce a hybrid system that merges natural processes with enzymatic technology to manage contamination. These wetlands become semi-autonomous detoxification systems.

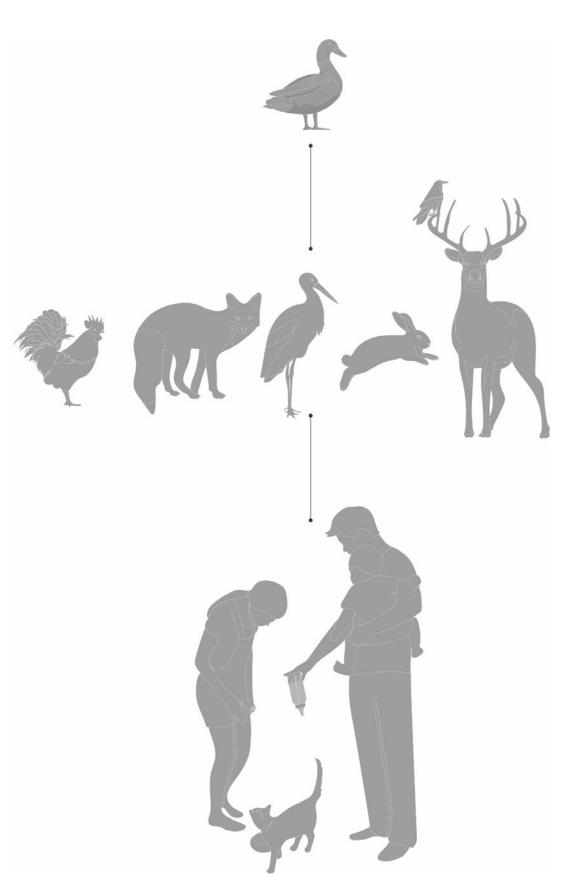
Our chosen site, **Little Island** on the Hudson River, exemplifies underutilized potential. Though designed as a green retreat, it harms local habitats. We aim to reprogram it as a living wetland that **educates**, **restores**, **and supports** human visitors and the surrounding ecosystem.

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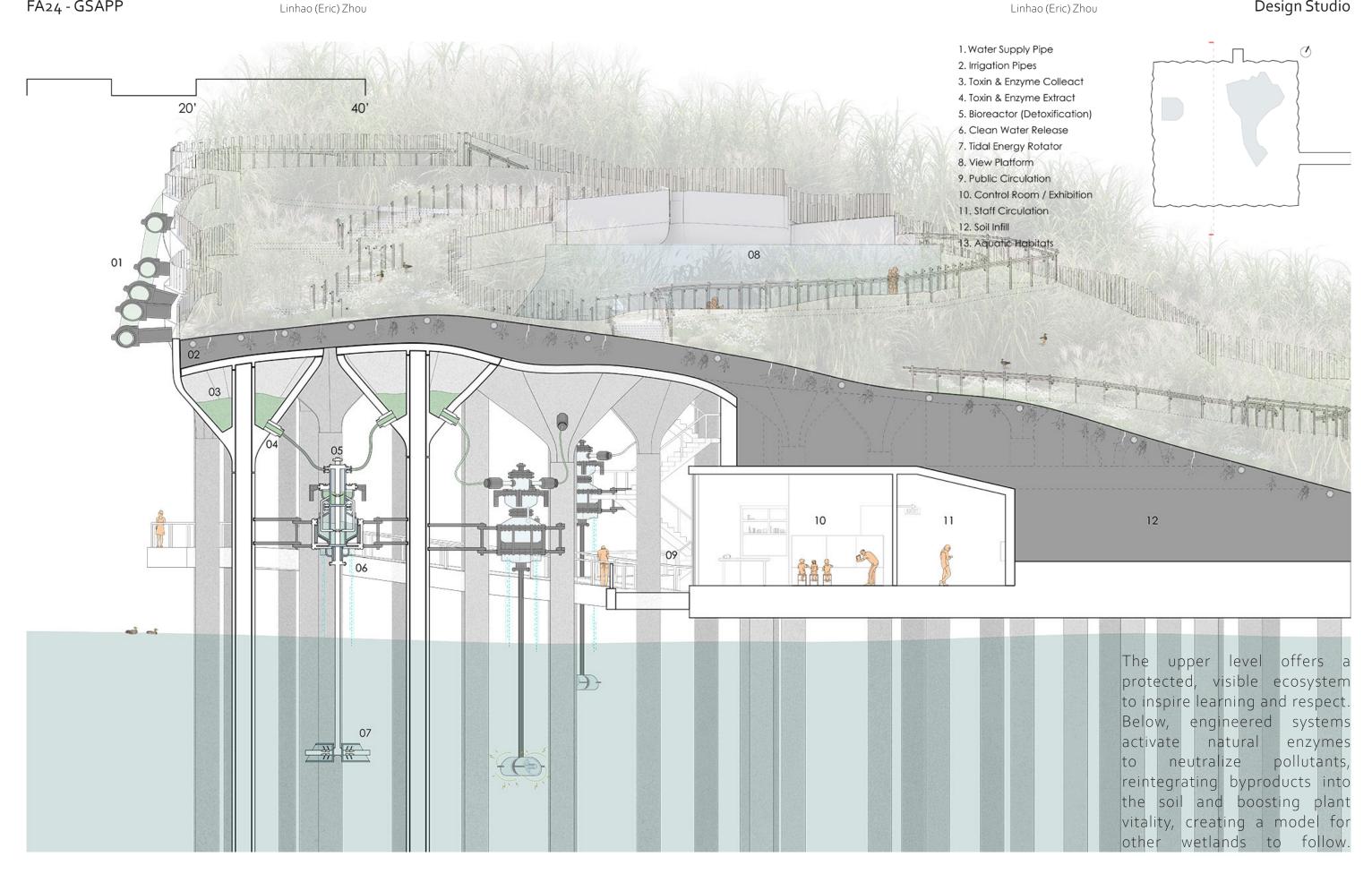


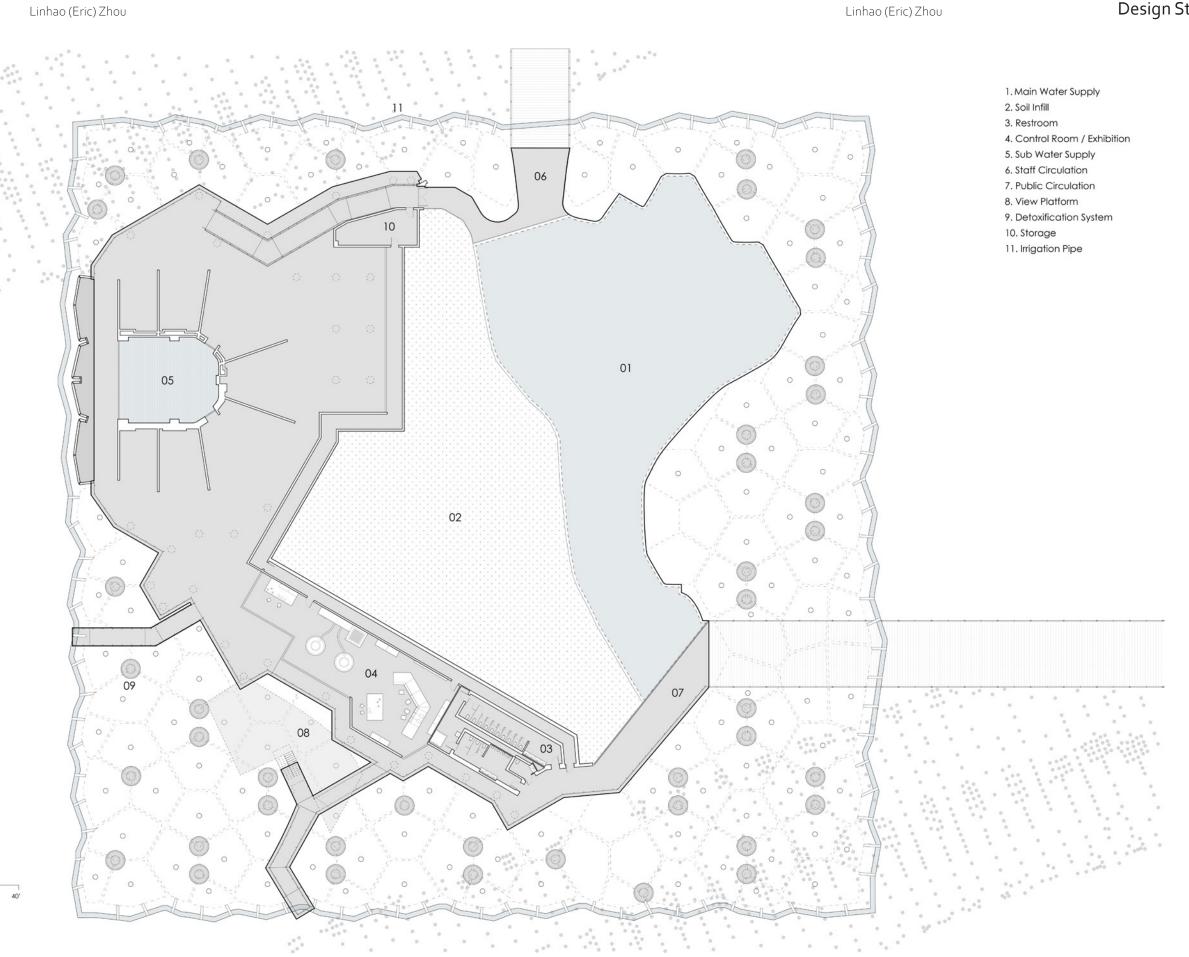
Wetland Toxicity Research, Mallard & Mercury

Design Studio



Linhao (Eric) Zhou





Top Level







FA24 - GSAPP Linhao (Eric) Zhou Design Seminar

HOUSE OF CHANCE

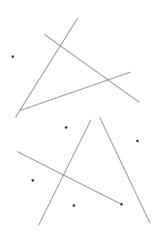
ARCHITECTURE APROPOS ART & PHILOSOPHY

Instructor: Steven Holl, Dimitra Tsachrelia

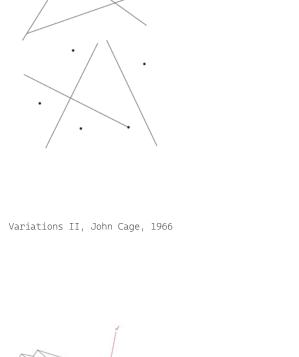
Key Words: Spatial Interpenetration, Chance, Silence

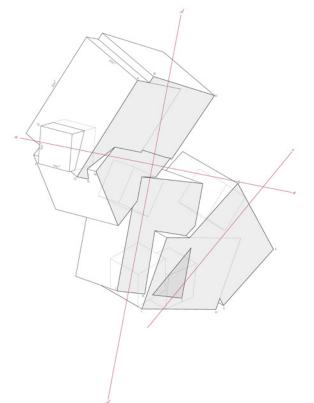
This project investigates chance as a method for defining space, drawing inspiration from the groundbreaking works of **John Cage**, a pioneer of non-standard and experimental modern music. Cage's avant-garde philosophy emphasized individuality and was profoundly shaped by the concept of chance, a form of randomness. Cage's iconic composition, 4'33", exemplifies his exploration of silence—not as the absence of sound but as the ambient, unintentional noises surrounding us. For Cage, silence was a space where sounds interpenetrate freely, akin to the transparency and interplay of architectural reflections. This principle of spatial interpenetration and method of chance influenced his later works, such as the Variations series, which used random points and lines to create unfocused, dynamic soundscapes. This project builds on Cage's ideas and extends his musical philosophy into architectural design through the conceptual "House of Chance." Inspired by Cage's Variations, the design employs random points and lines to establish spatial boundaries and axes. These elements were extruded, folded, and trimmed to create interpenetrating blocks, which naturally formed rooms, stairs, and windows. The process embraced randomness and inconsistency created from chance, mirroring Cage's musical approach. Composing these inconsistent blocks forms the moments of solid and transparent interpenetration.

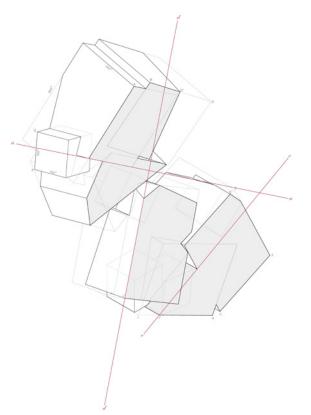


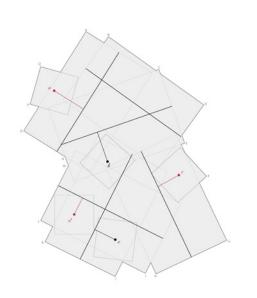






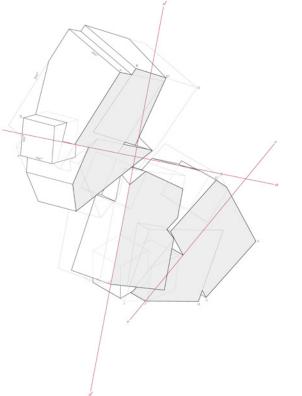


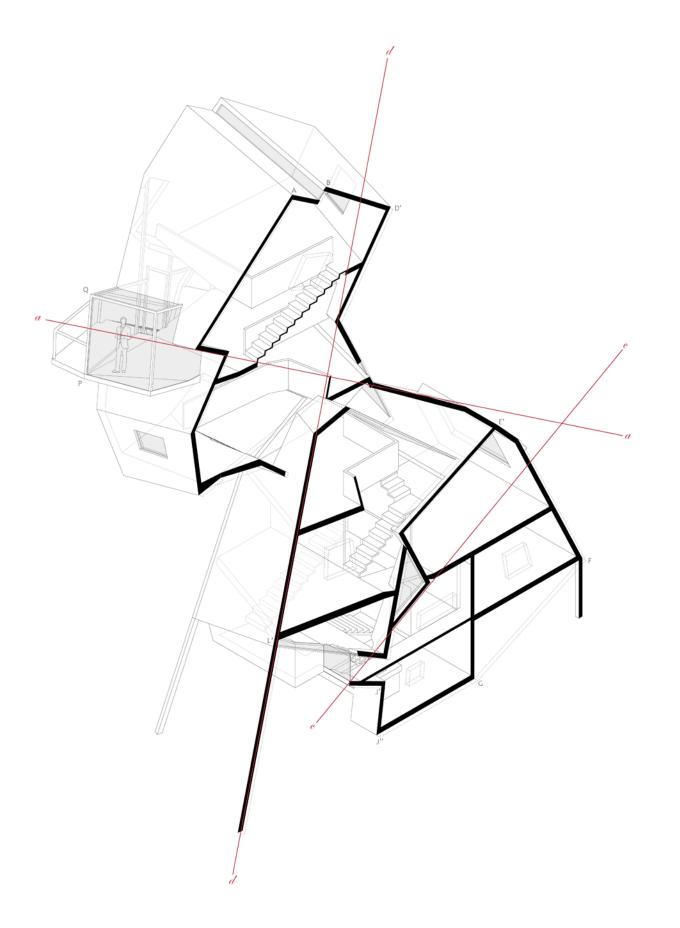






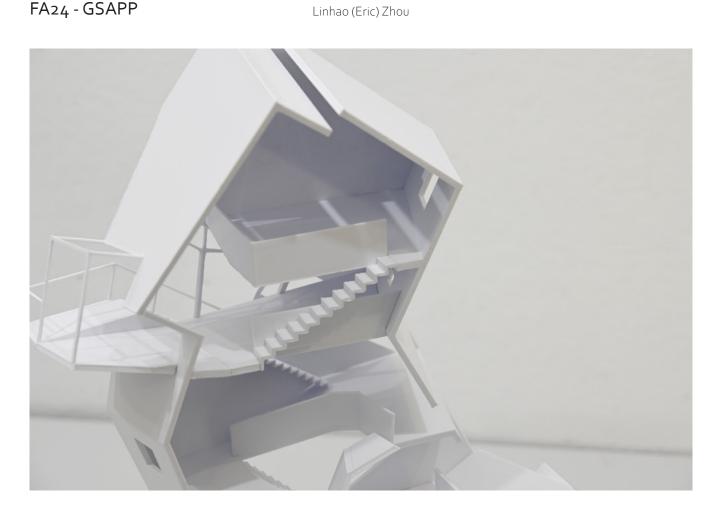
 Trim











"There is no such thing as an empty space or an empty time. There is always something to see, something to hear. In fact, try as we may to make a silence, we cannot."

John Cage

"In the nature of the use of chance operations is the belief that all answers answer all questions."

John Cage



Design Studio

THE TRICKLE

Linhao (Eric) Zhou

TRANSMUTING THE WOUND: CULTURAL INFRASTRUCTURE FOI DIVINITY, NATURE, & COLLECTIVE EXPERIENCE IN NYC (PART I)

Location: The Ramble, Central Park, New York

Instructor: Larissa Belcic & Michelle Farang Shofet

Partner: HaoYu Wu

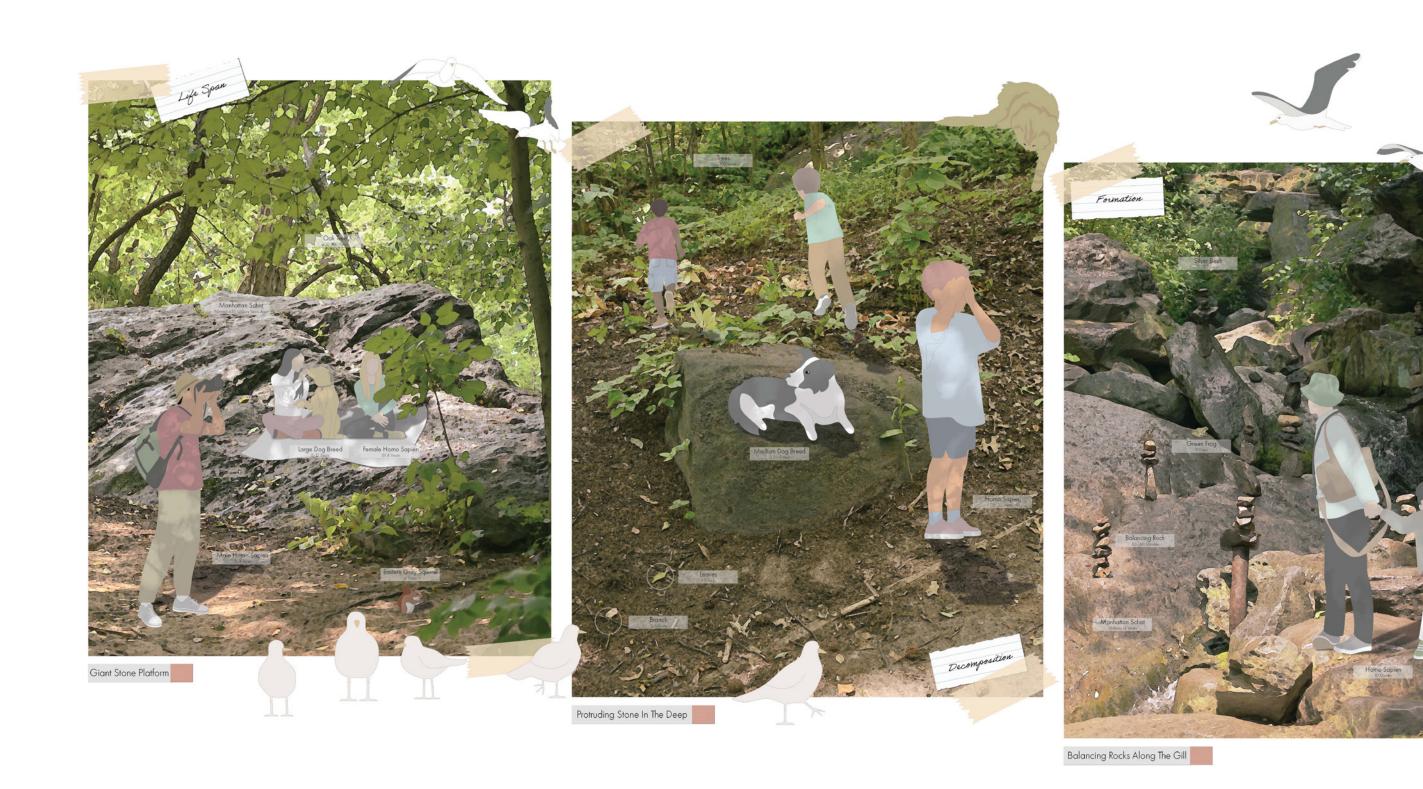
Key Words: Spatial Sacredness, Installation

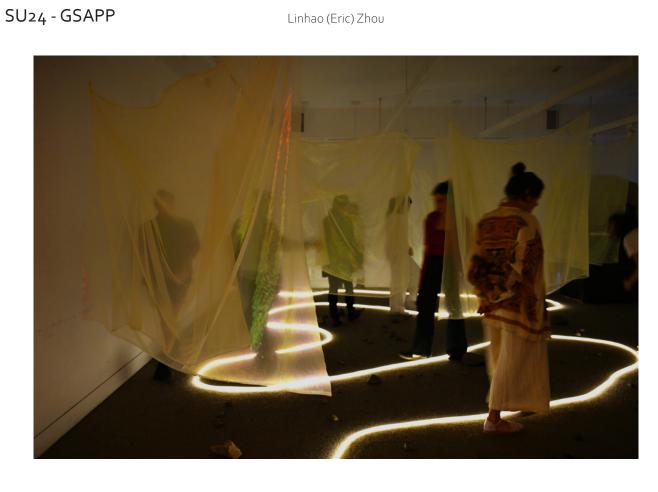
In the 19th, New York City's rapid growth led to a densely populated urban setting as immigrants and workers were drawn to new industrial opportunities. To create a recreational haven amidst this bustling city, **Central Park** was conceived in 1855, eventually becoming a cherished urban sanctuary.

At its core, **The Ramble offers a hidden oasis**, transporting visitors to a natural landscape within the city's heart. This 36-acre woodland, with its rugged rock outcrops, hills, and winding streams, embodies the spirit of 'Forever Wild.' Though entirely artificial, its dense forest serves as a lush veil, concealing the surrounding urban sprawl and offering an immersive experience that allows visitors to **escape the city and connect with nature**.

Inspired by The Ramble's unique spatial qualities, "The Trickle" explores the interplay of elements like rocks, trees, and the passage of time. By transforming and reimagining these features, "The Trickle" invites visitors to experience the serenity of nature in a new way, fostering a sense of slowness and tranquility. It creates a peaceful retreat from the city's hectic pace, where visitors can immerse themselves in the quiet sanctuary of nature.

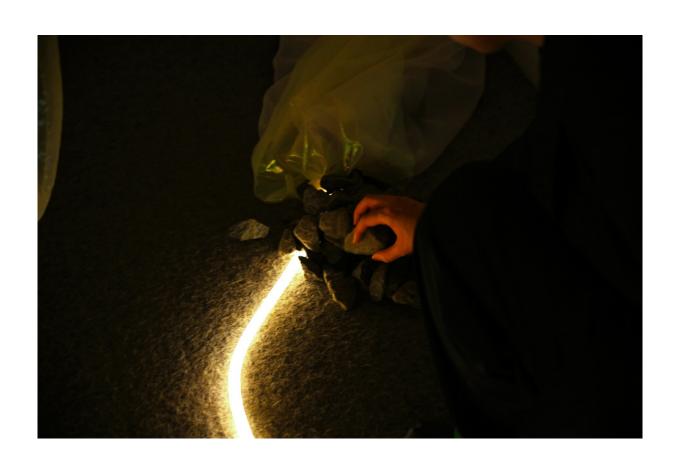












Design Studio

NOCTURNAL EMBRACE

Linhao (Eric) Zhou

TRANSMUTING THE WOUND: CULTURAL INFRASTRUCTURE FOR DIVINITY, NATURE, & COLLECTIVE EXPERIENCE IN NYC (PART II)

The Ramble, Central Park, New York Location:

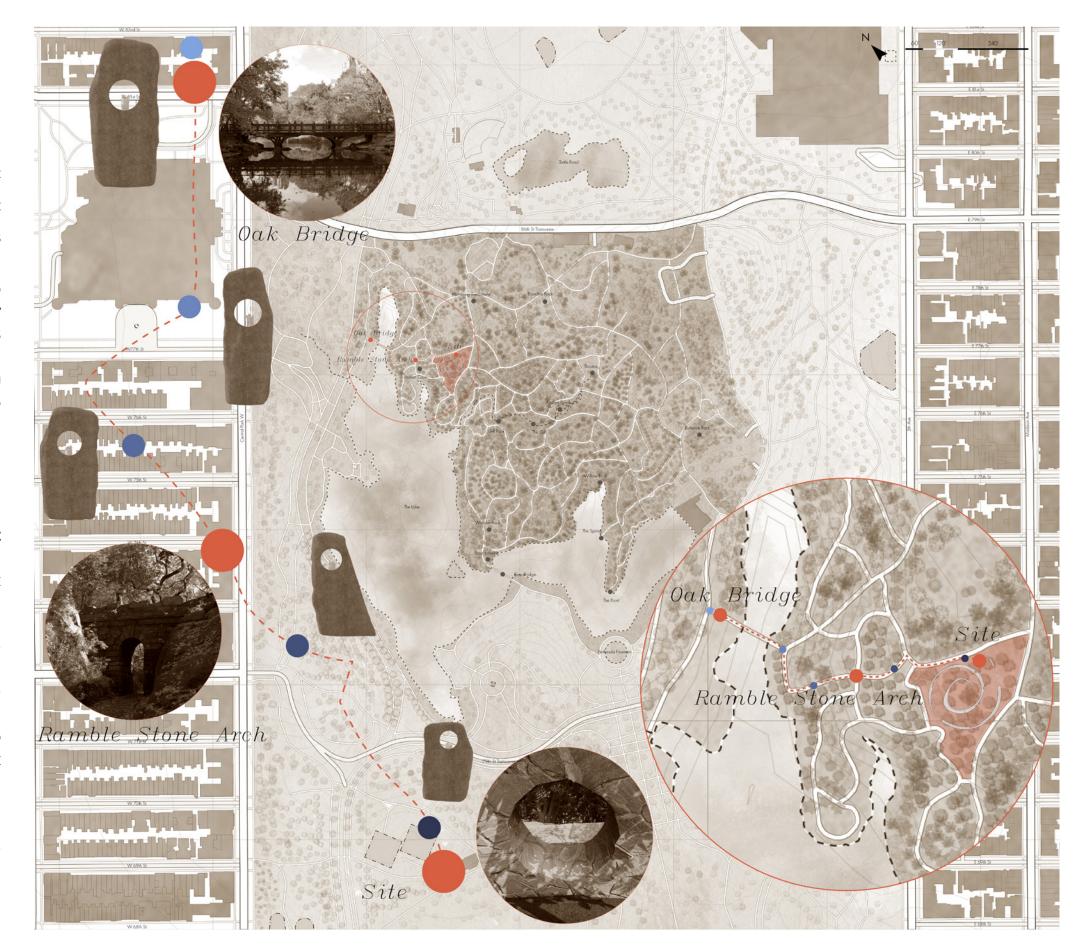
Instructor: Larissa Belcic & Michelle Farang Shofet

Key Words: Emotional Inhabitance, Darkness

Building on the research from Part I, Part II delves into the contrasting qualities of The Ramble by day and night. During the day, The Ramble welcomes visitors with its intricate paths and lush greenery, offering a serene and peaceful escape from the city's bustle. However, at night, it transforms dramatically into a place of fear and uncertainty, where darkness shrouds the landscape, amplifying the unknown and evoking a sense of anxiety.

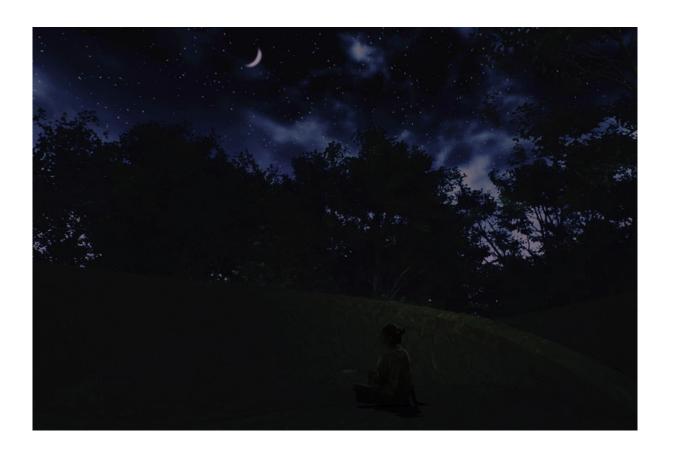
Despite these fears, they are often irrational, driven more by imagination than reality. Night in nature is not as difficult as we might think. To address this discomfort, I propose a night ritual in a pavilion called the Nocturnal Embrace.

Located on an elevated Manhattan schist near The Ramble's entrance, this pavilion is accessible via a path marked by five stone markers, symbolizing the phases of **sunrise to sunset**. The pavilion's design encourages a gradual transition from light to darkness, guiding visitors to embrace the night as a space for contemplation and reflection. During the day, the pavilion serves as a shelter and resting space. At night, it becomes an enclosed space of the unknown, embracing you with the freedom and protection to grow and reflect.











Evel