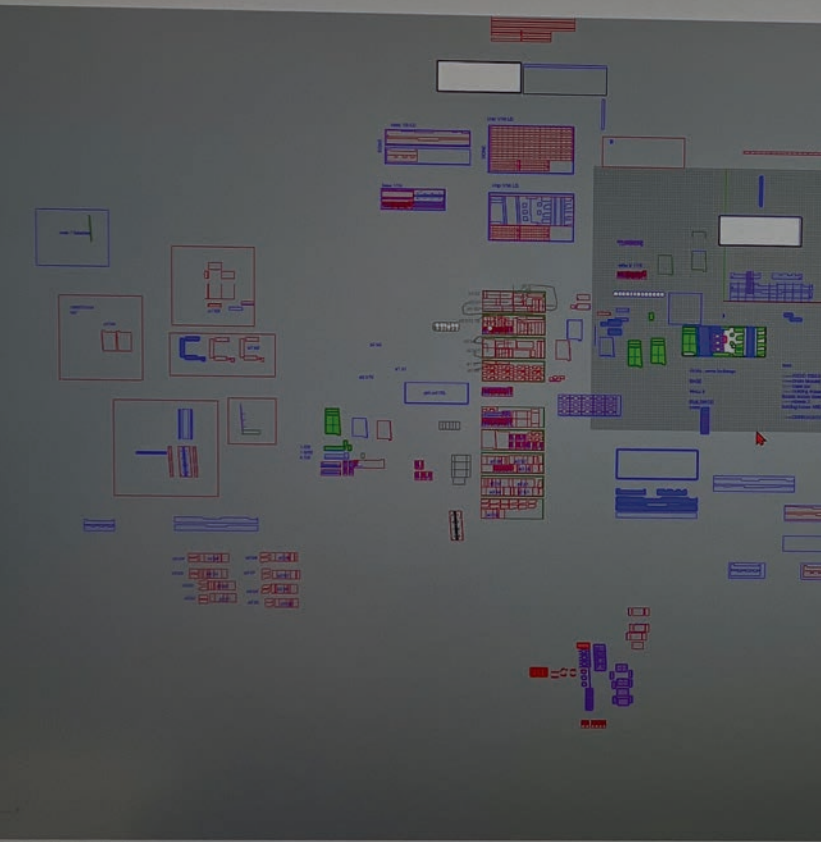
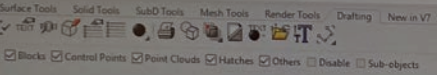


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Danyel D. Hueyopan  
Columbia GSAPP AAD '24



In lieu of architecture as a precise and final project, absent to political affairs, designed within modern hierarchies, the approach of this portfolio stands to reevaluate the matter of projects as a work in process. Highlighting the inner realization of work like drafts, sketches, environments of influence, and people that have come to orientation through casual critical conversations. The book is thus named Historicity as it intends to acknowledge a past, present, and to come environment within works as described.

The intent is to be a book across studios and select projects without an order, only an intent to describe a body within the work.



## Welcome to the Habitability with Urban Soil Studio

# Soil Sucks.

**Instructor: Javier A. Flores Leal, Fuminori  
Nousaku, Mio Tsuneyama, and Jerry Zhao  
Collaboration w/ Sizhe Wang and Fei Fan**

Fiberglass insulation can take up to 100 years to fully decompose. While so, buildings use various types of toxic materials to maintain a healthy amount of heat, cooling, water, and air quality. Kensington, a neighborhood in Brooklyn, is no exception to average buildings. Historically, buildings in Kensington have been subject to renovation due to asbestos being outlawed. Meaning, the built environment's material studies a trail of toxicity that spans in building but also across the urban city's anthropocene. Effectively, our designs have and are creating spaces of toxicity for all beings in the environment. Soil, water, air, animals and insects, plants, and more are homogenized and environmentally affected through the trails of toxicity. Further accentuated within building demolition and construction. Could architecture invest into the environment in its afterlife? The study takes forward the architecture of toxicity to critique buildings through permacultural systems to reactivate soil, water, and growth

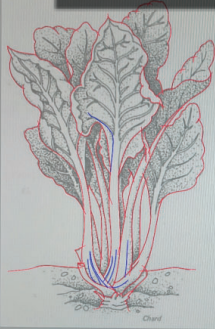
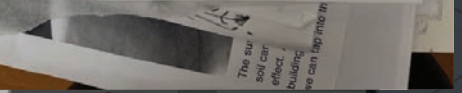
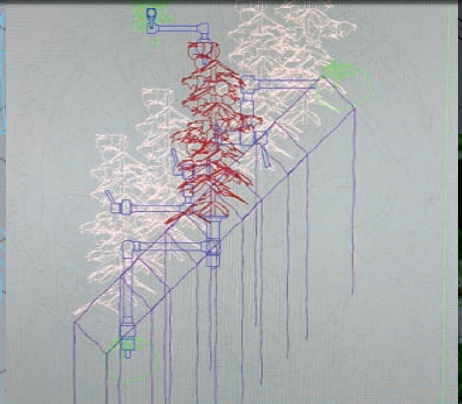
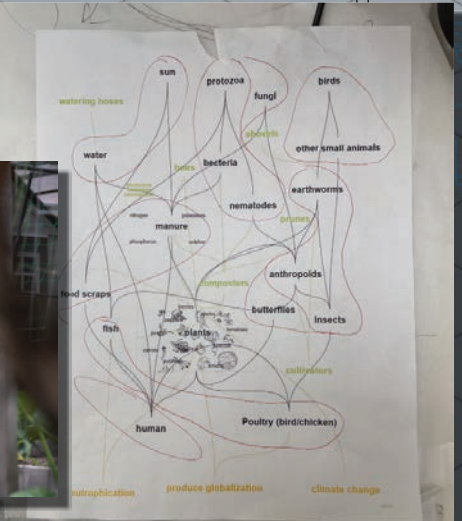
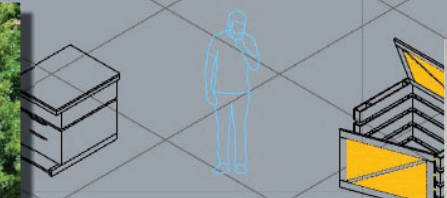
in the state of demo-construction.

In the first phase, done as a group, worked towards developing a drawing regarding food production and composting to reveal permaculture systems. After research and visiting a local garden, the study broke itself into different categories: environment facilitation, human labor, and produce. Environment facilitation is not just about measuring the amount of sun, water, and soil health but can include the cars, trains, and atmosphere to measure the equilibrium that plants grow within. Followed by maintenance and the labor of these systems. Whether it means watering plants, removing weeds, composting, or local buildings there is immense human labor to maintain the garden. Lastly, the produce or production quality and quantity. To understand the value of a garden it needs to be measured calorically, expecting to understand the scale of influence growing food can have on local communities.

Given the system of food production, the following phase broadened the scope to impact a building system. Now as individual work, a site was identified by studying local building violations and landlord quality. An array of buildings were found abandoned but still renting. The building's reported leaks, lighting, and pre-ruin state, was found pre-reconstruction which set forward a design premise: what would happen if the building were not built back into its original state? The natural demolition of the building to create urban opportunities, permaculture systems, or creating a building that invests beyond its enclosure.

Towards a design section, peeling the building, and creating a community through water facilitation. The building begins by identifying itself as toxic through its material, envelope, and environment for residence. In which, the building submitted itself towards a planned demolition that incorporates community dismantling, water deterioration, and temporary programs using materials found on site. Creating a system of demolition that not only incorporates local communities but intends to grow with its constitutions. This process will take a generation before eventually being a state of ruin that would ideally return to earth as a garden.





A garden visit on June 5th, 2023 to East 4th Community Garden in Kensington began the process of understanding permaculture systems and actors within drawings.









A compost site visit on June 5th, 2023 to Governors Island to study the process of city composting as a spatial practice for urban environments.









# The Cycle of Food Production and Composting

**Humans**

The key to success in urban farming is knowledge and devotion. In permaculture, humans are not the center anymore, but reduced to one participant in the process.

**Chicken Coop**

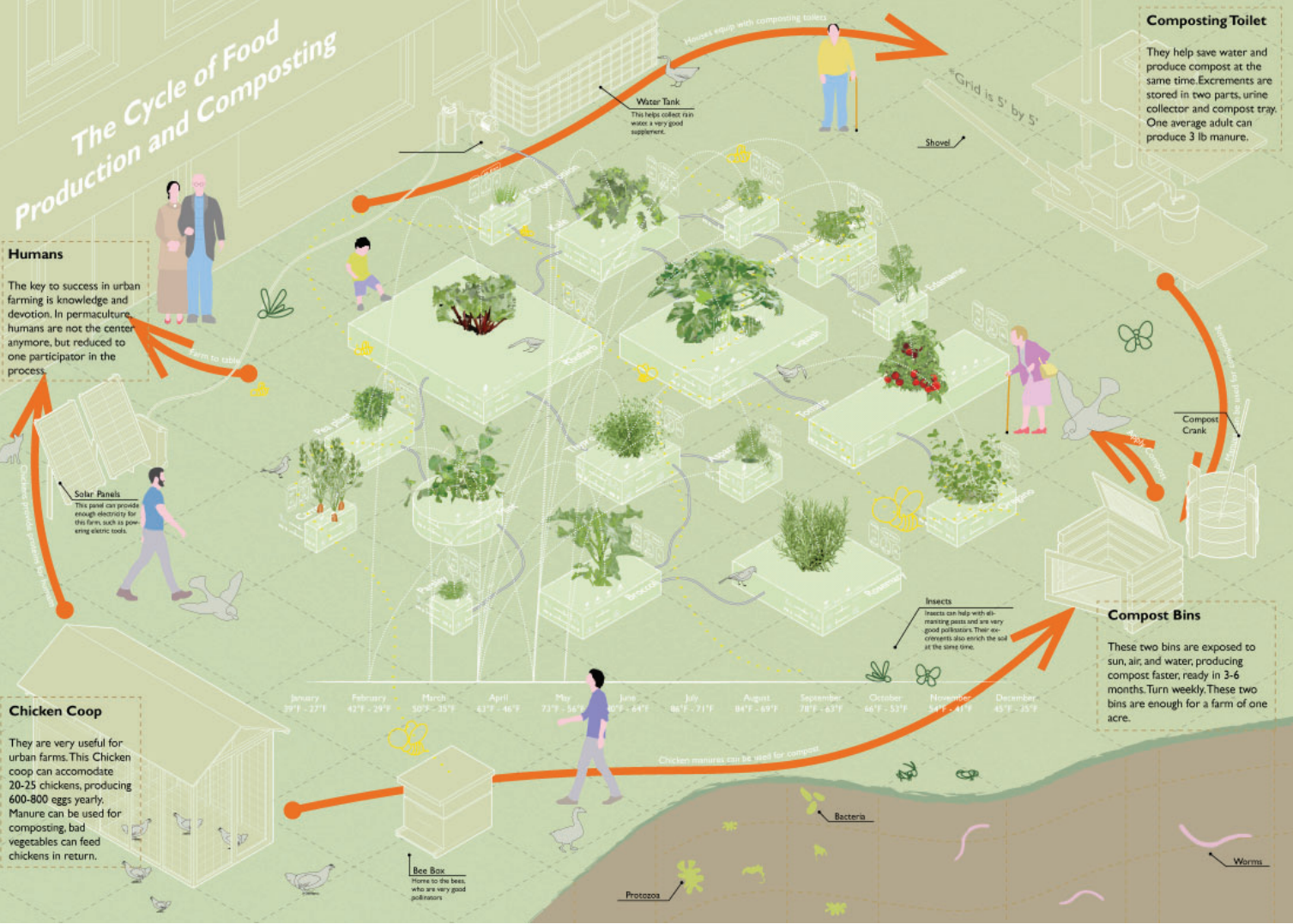
They are very useful for urban farms. This Chicken coop can accommodate 20-25 chickens, producing 600-800 eggs yearly. Manure can be used for composting, bird vegetables can feed chickens in return.

**Composting Toilet**

They help save water and produce compost at the same time. Excrements are stored in two parts, urine collector and compost tray. One average adult can produce 3 lb manure.

**Compost Bins**

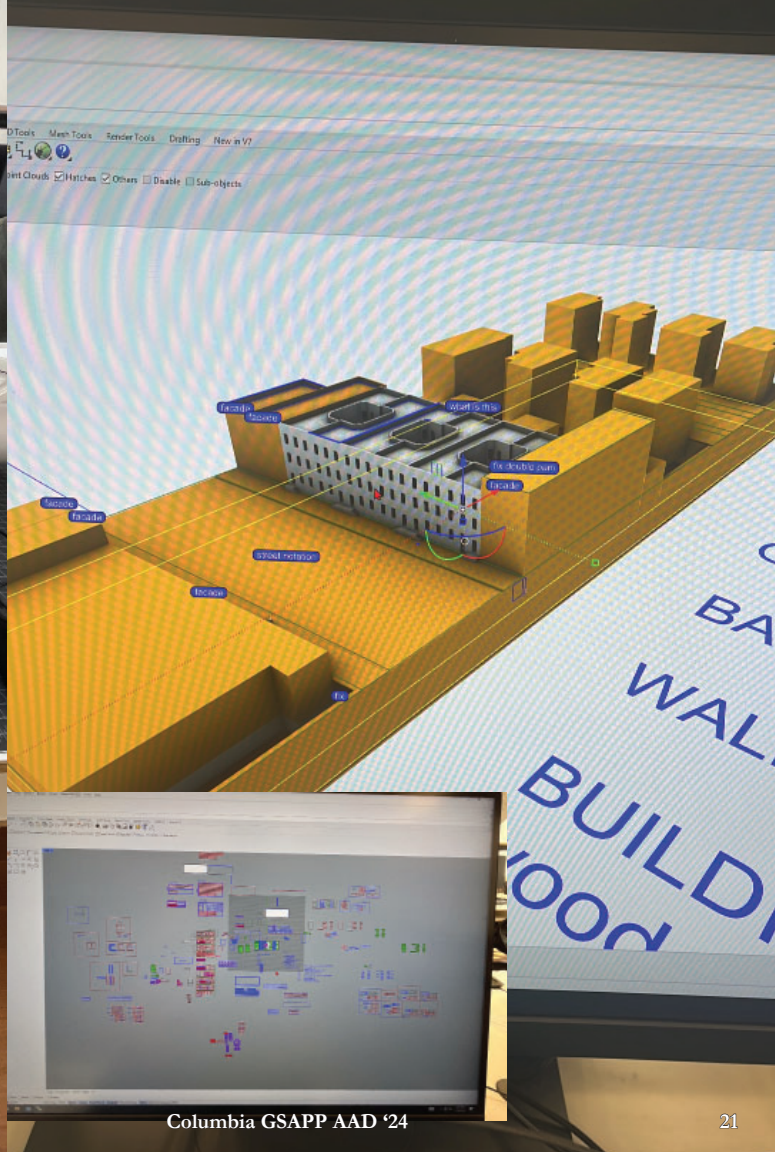
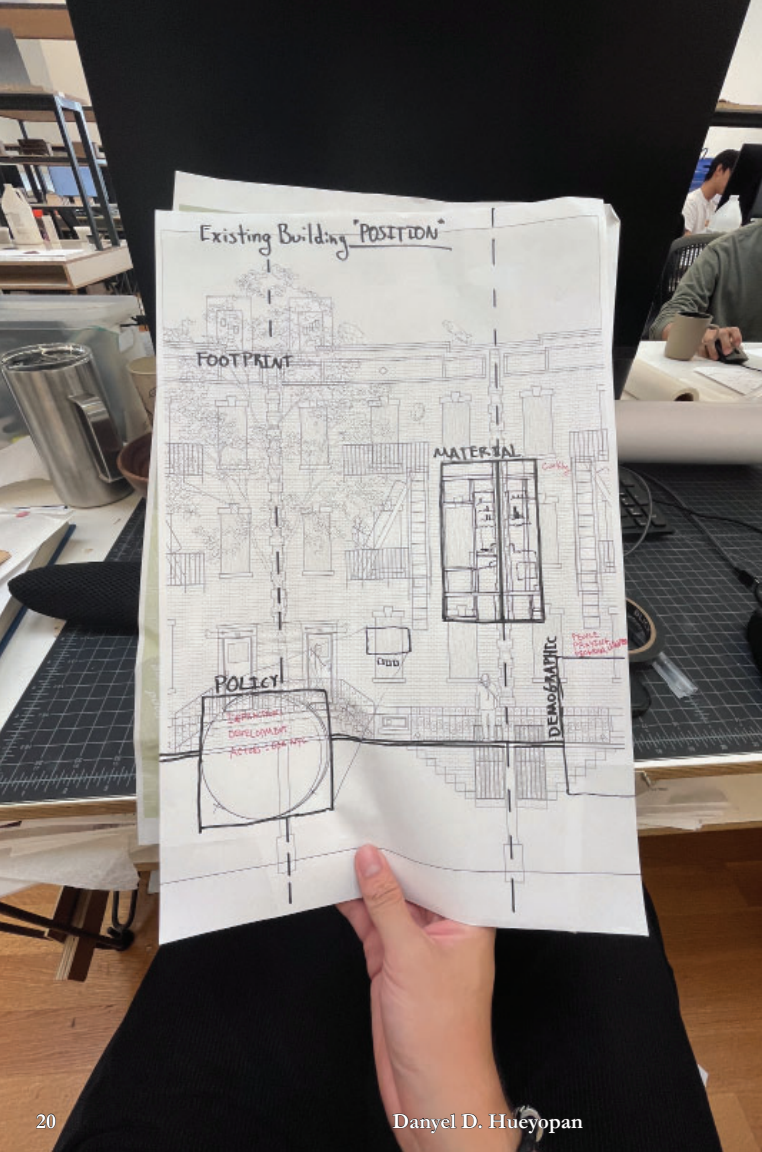
These two bins are exposed to sun, air, and water, producing compost faster, ready in 3-6 months. Turn weekly. These two bins are enough for a farm of one acre.







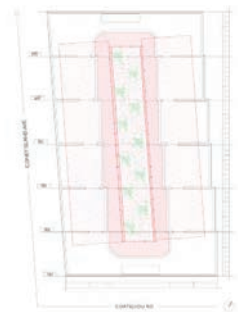
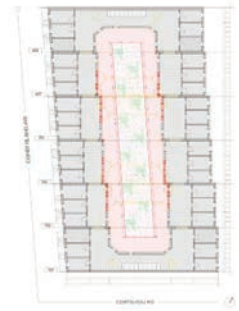
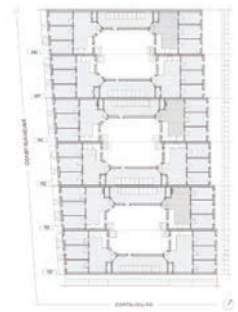
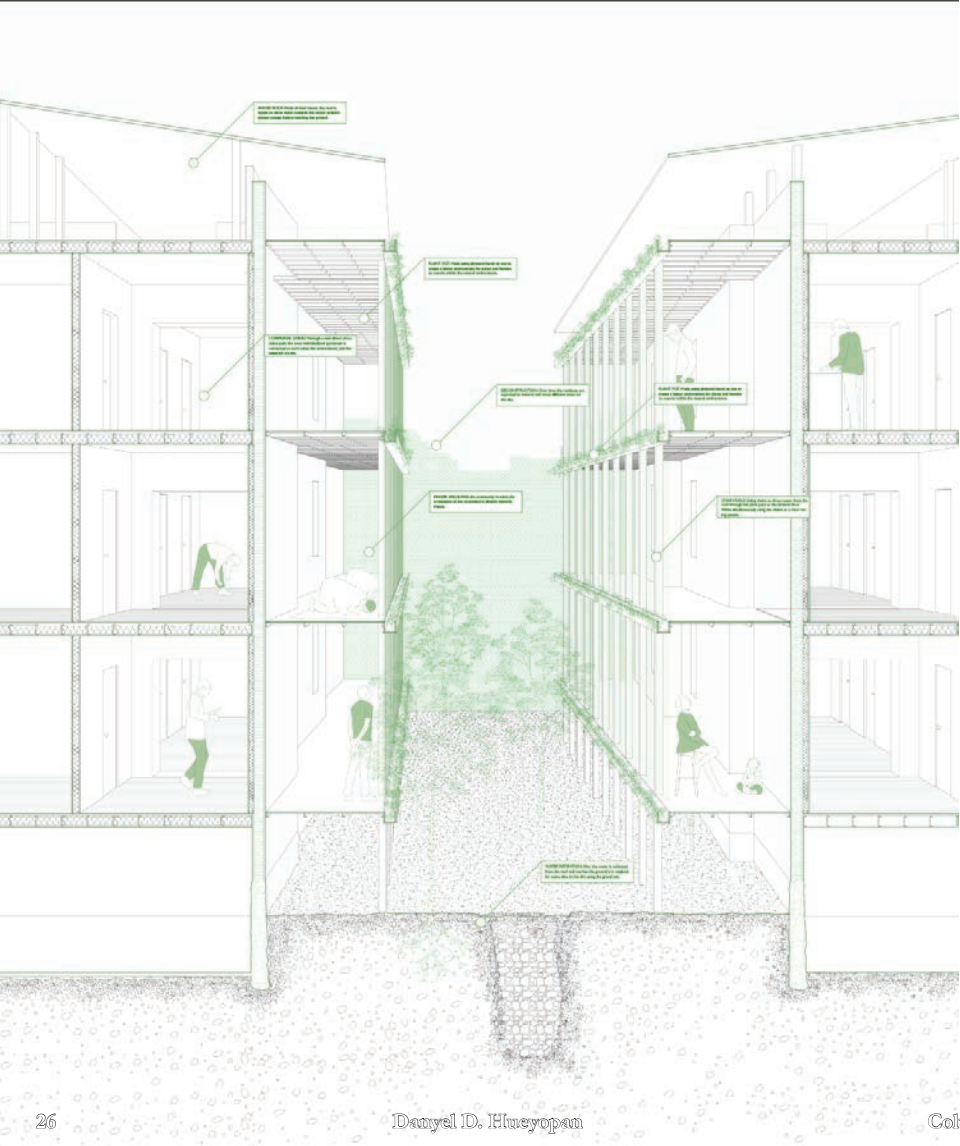














## Climate Feudalism:

# Climatizing the Svalbard Treaty

Reclaiming Svalbard's Eco-librium within the Aves, Maritime, and Post-Oil Infrastructures

Instructors: Mireia Luzárraga, Alejandro Muiño, Alonso L. Ortega, and Kriti Shivagunde

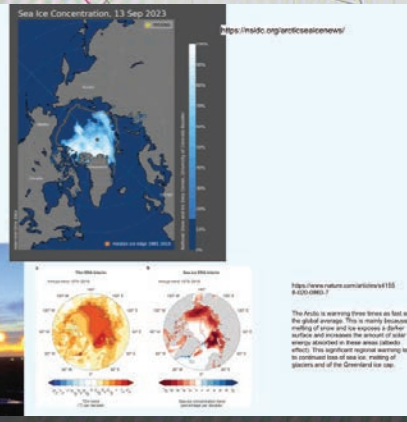
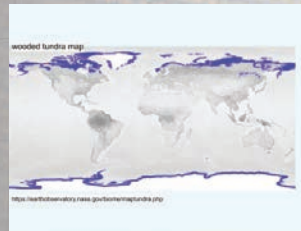
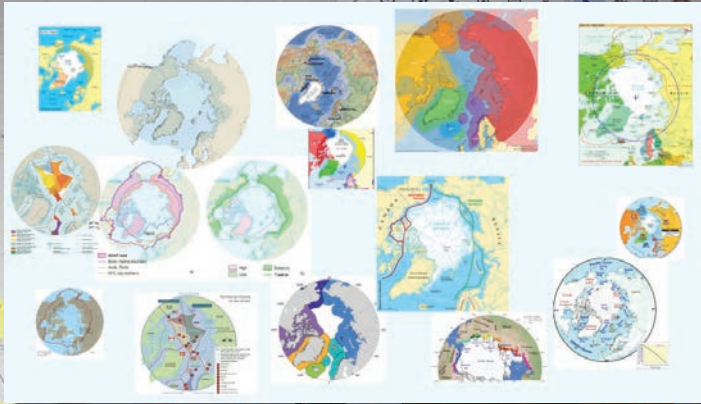
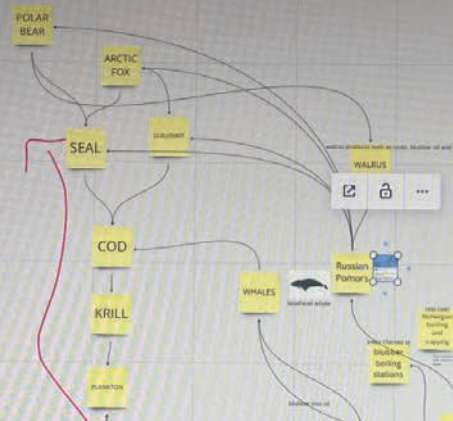
Collaboration w/ Mingjia Hu



Svalbard, once considered a terra nullius archipelago, now grapples with the complexities of contemporary global power dynamics. Positioned in the extreme reaches of the Arctic, this northernmost settlement on Earth has long captivated explorers, scientists, and adventurers alike. The remote and pristine landscapes, marked by towering glaciers, rugged mountains, and icy fjords, draw those eager to immerse themselves in the untouched beauty of the polar wilderness. Beyond its inherent allure, Svalbard's strategic geographical location elevates it beyond mere curiosity, establishing the archipelago as a focal point for scientific research, resource extraction, and environmental decay. This unique point allows for my research to delve into studies on climate change, Arctic ecosystems, and the extreme impact to come from oil and coal industries, amplifying Svalbard's significance on the global climate stage.

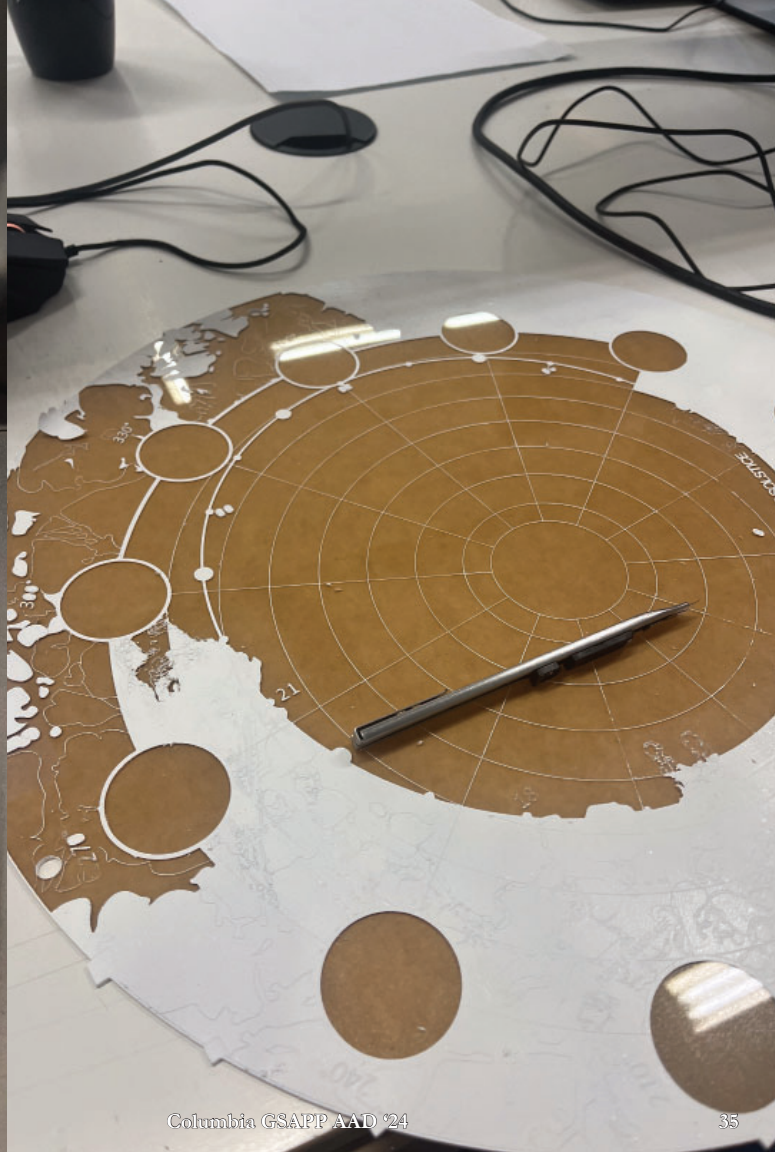
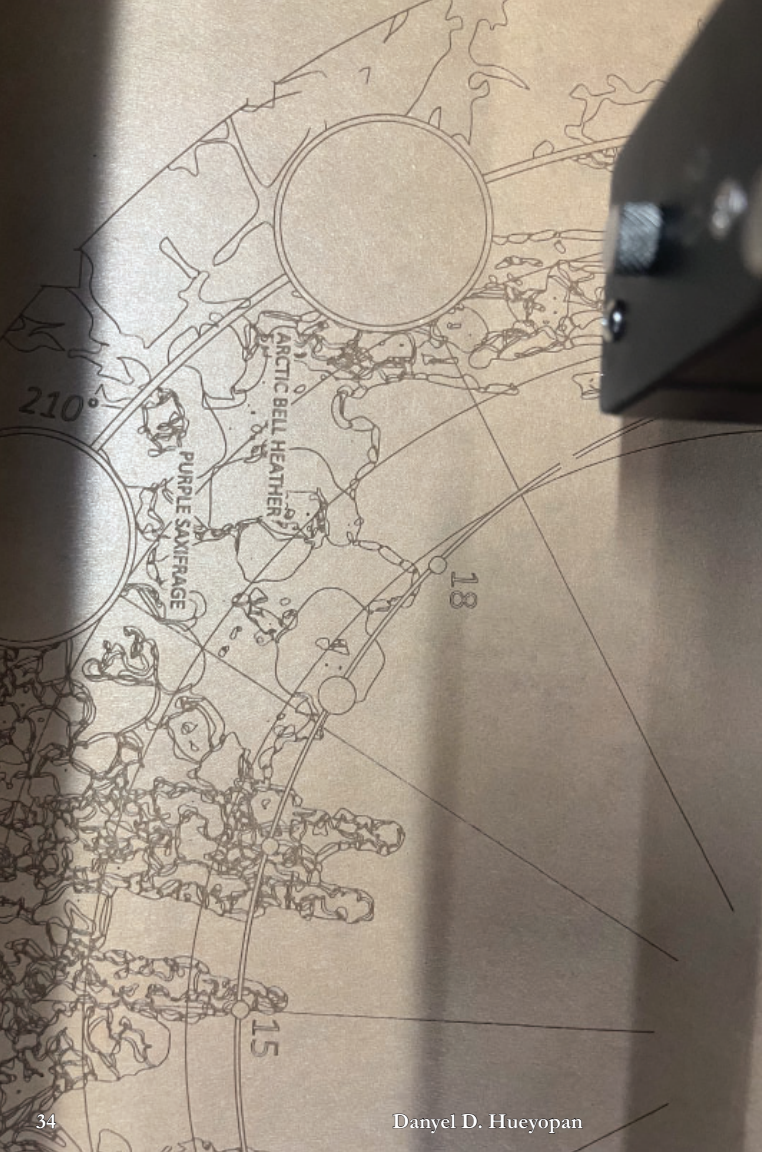


In this future vision, the people of Svalbard actively participate in the cultivation of a sustainable and interconnected ecosystem, where avian inhabitants play a pivotal role. Engaging in the maintenance and construction of buoy structures not only provides employment but also becomes a vital component in fostering a harmonious balance between economic prosperity and environmental stewardship. This innovative approach ensures the well-being of the surrounding waters, bolsters the region's sovereignty, and establishes a model for responsible coexistence between human activities and the fragile Arctic environment.



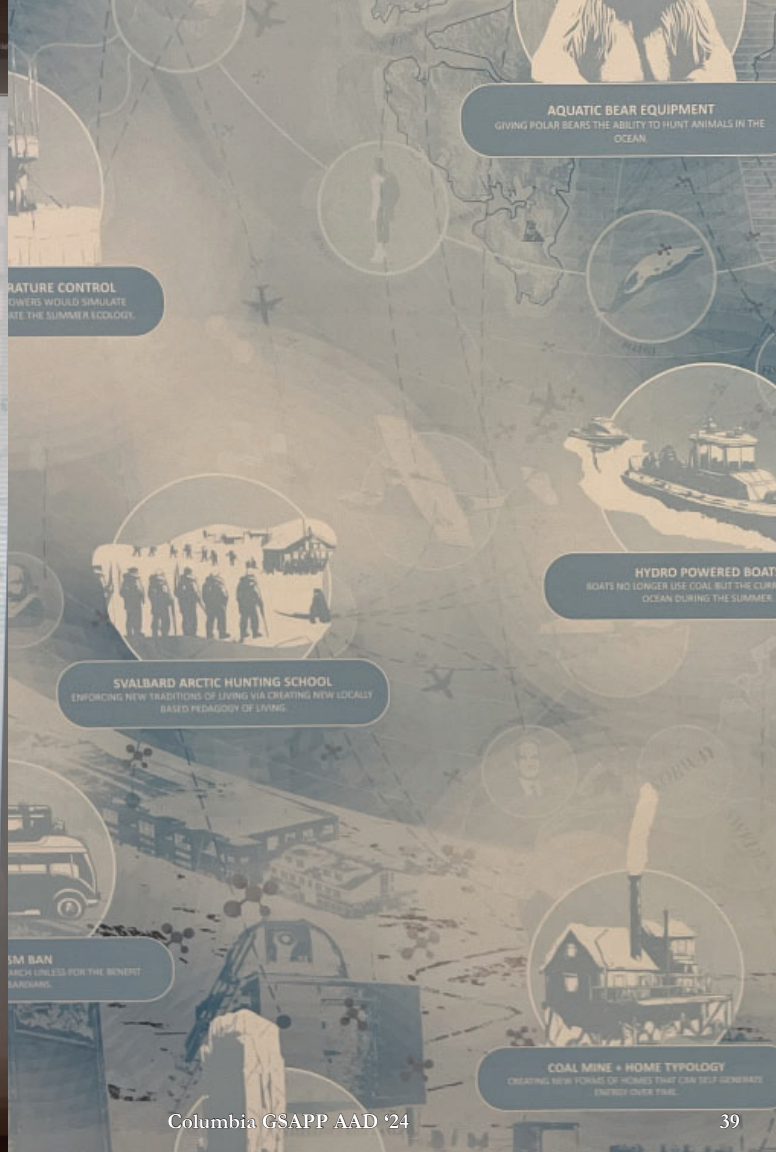












### AQUATIC BEAR EQUIPMENT

GIVING POLAR BEARS THE ABILITY TO HUNT ANIMALS IN THE OCEAN

### TEMPERATURE CONTROL

POWERED WOULD SIMULATE THE WINTER & COLOGY.

### SVALBARD ARCTIC HUNTING SCHOOL

ENFORCING NEW TRADITIONS OF LIVING VIA CREATING NEW LOCALLY BASED PEDAGOGY OF LIVING

### HYDRO POWERED BOAT

BOATS NO LONGER USE COAL BUT THE CURRENT OCEAN DURING THE SUMMER

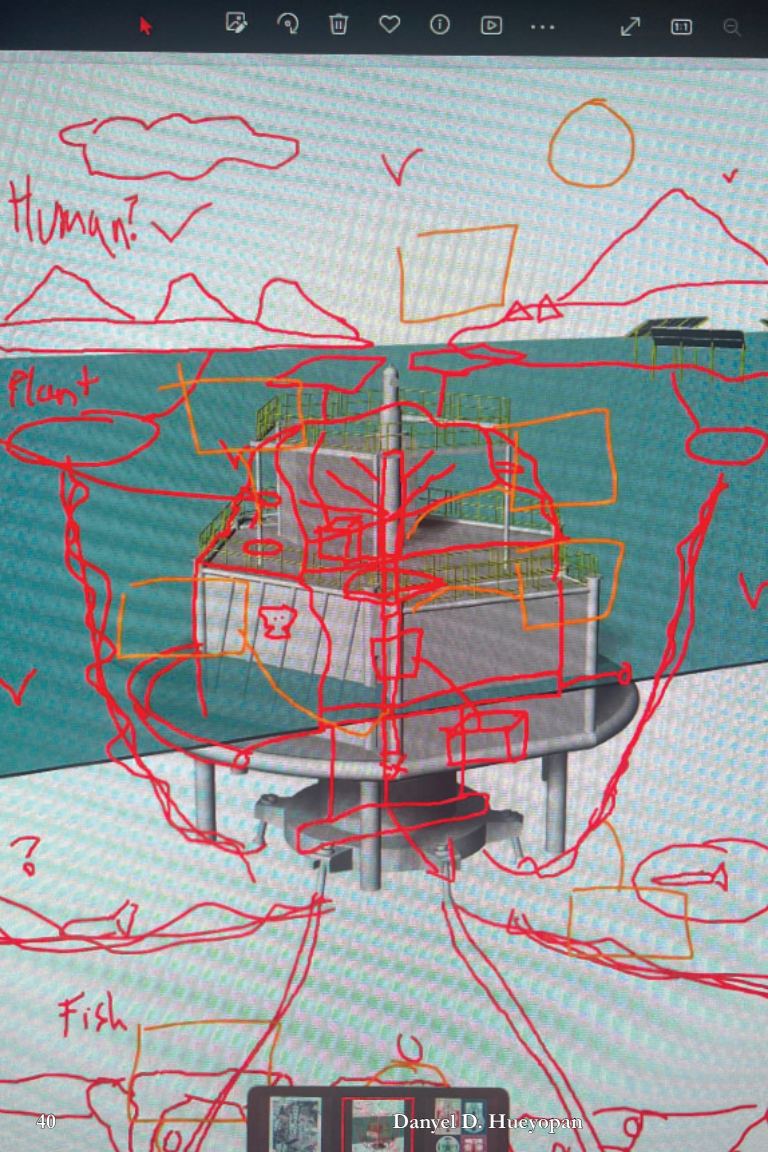
### EV BARN

ARCHITECTURE FOR THE BENEFIT BARBERS.

### COAL MINE + HOME TYPOLOGY

CREATING NEW FORMS OF HOMES THAT CAN SELF GENERATE ENERGY OVER TIME











3D Printing with Earth: Hackathon

# Chair Design

Team w/ Jennah Christina Jones, Danyel Hueyopan, Eddy Voltaire, Shrey Bindesh Patel, Soo Jin Yim, Valery Kate Perez.

Lead by Lola Ben-Alon, Olga Beatrice Carcassi, Shiho Kawashima, Erfan Mardan, and Eunjin Shin.

A short week-long Hack-A-Thon during the winter break was offered by GreenSAPP and the Natural Materials Lab to help experiment with newly studied hemp clay. The goal was to design, print, and eventually build a chair using the material. The challenges ranged from hardware, software, material, and all in all experience and time to actuate the project. Through this section you will see about 3 months of work over the course of the semester to eventually create a fully functioning untitled chair that could one day be reproduced and used as an alternative to modern materials today.

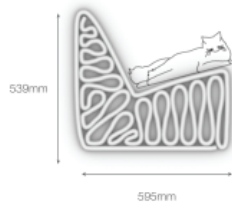
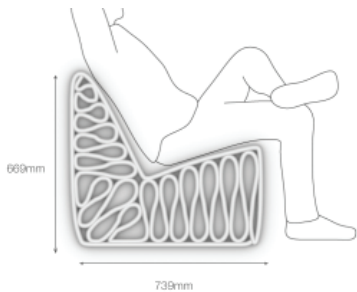
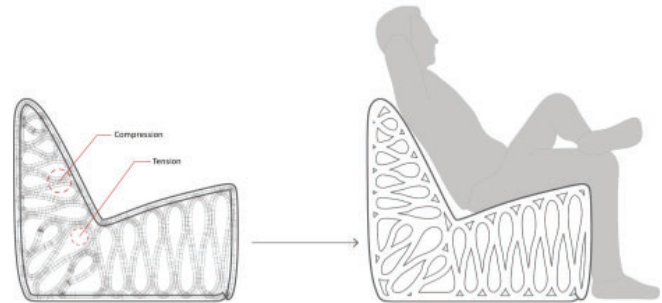
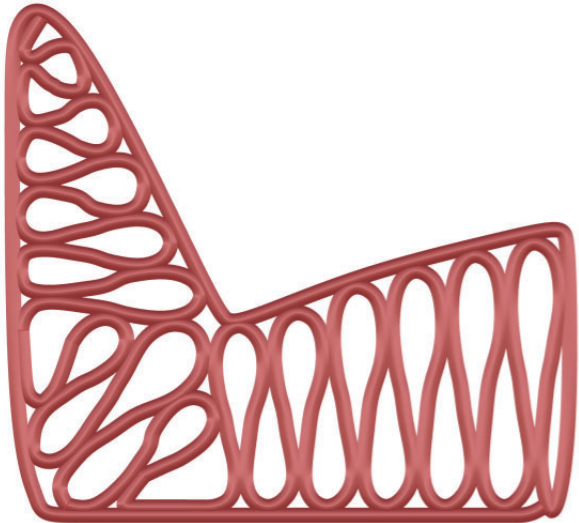
COLUMBIA  
GSAPP  
NATURAL  
MATERIALS  
LAB

 Carleton Laboratory  
COLUMBIA | ENGINEERING



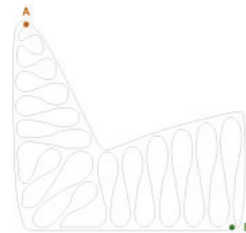




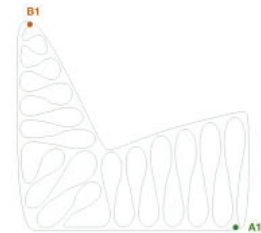


**MODEL 1**  
Length (per layer): 10,100 mm  
4.2 min/layer

**MODEL 2 (80%)**  
Length (per layer): 7,078 mm  
2.9 min/layer

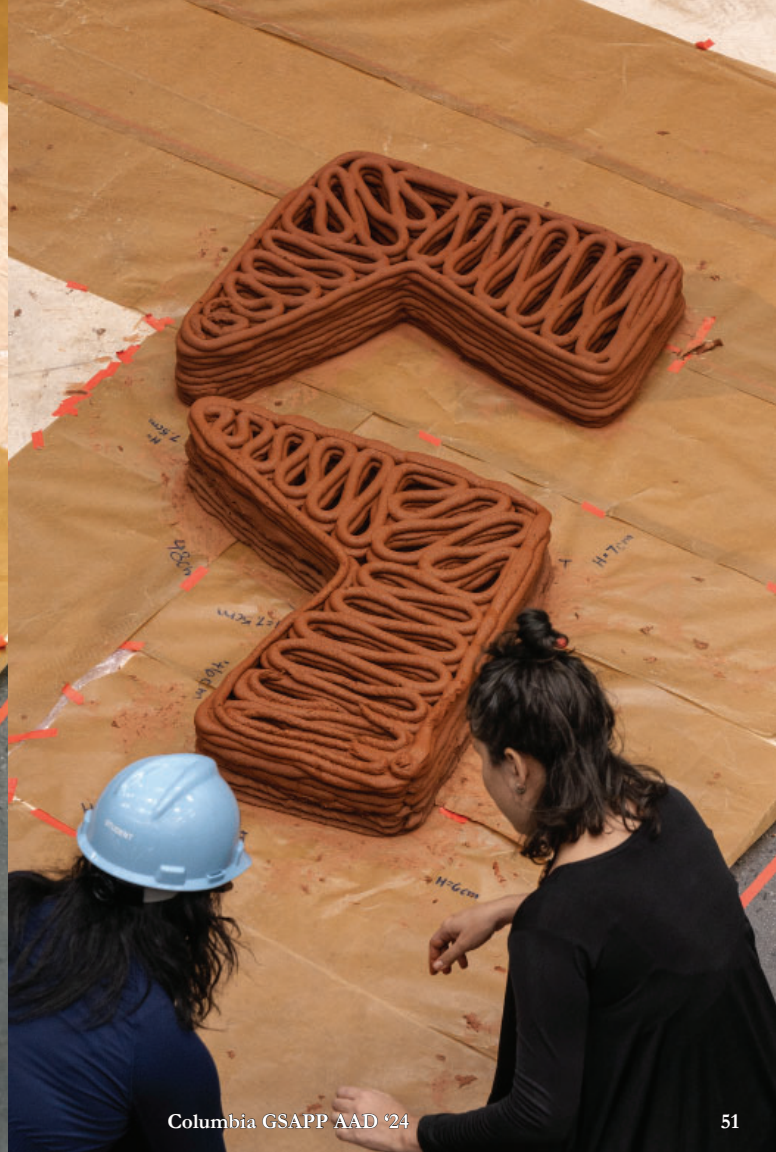


Layer 1 ends at point B



Layer 2 ends at point B1

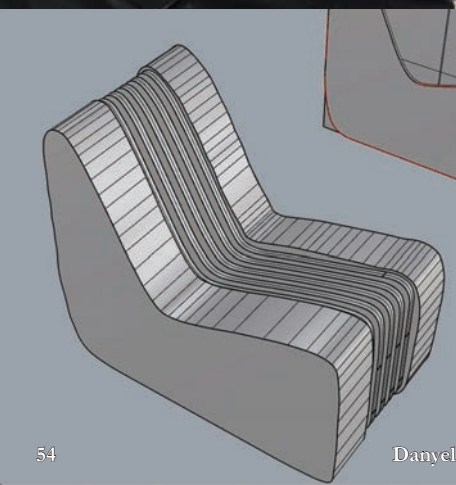
A and B1 have the same x,y coordinates, completing the loop in two cycles



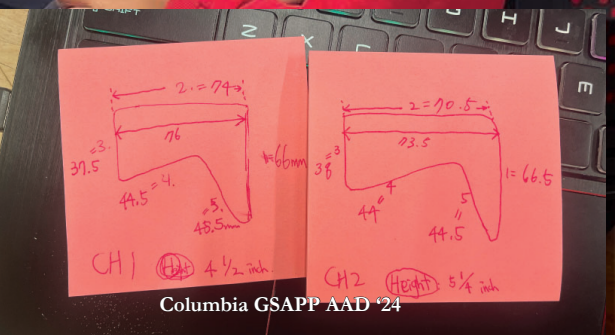








Danyel D. Hueyopan



Columbia GSAPP AAD '24





red

1

2

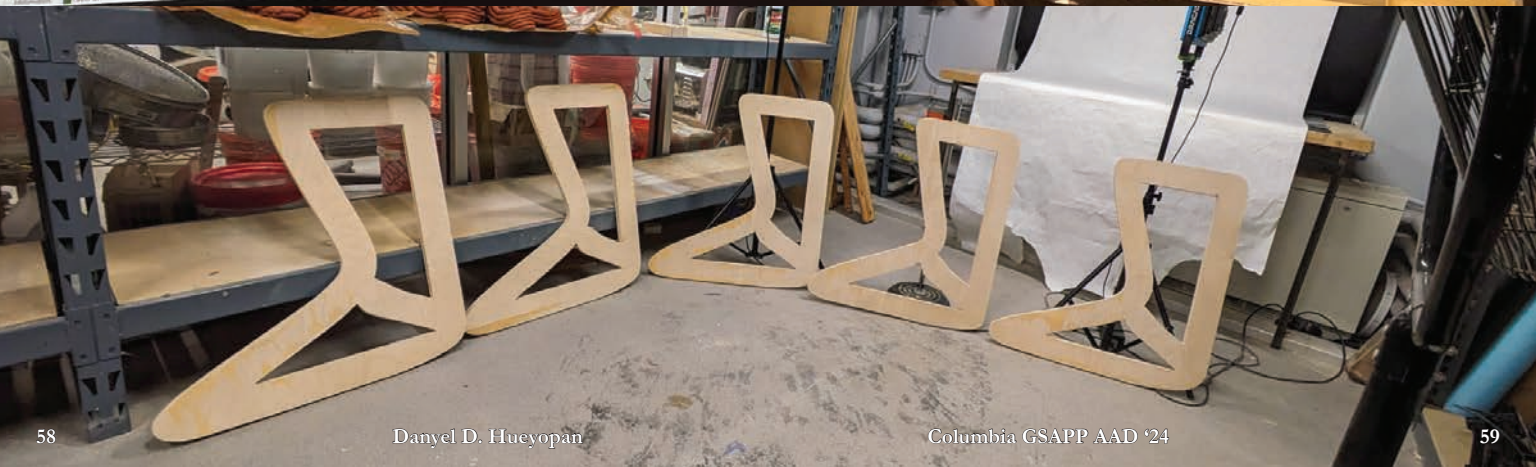
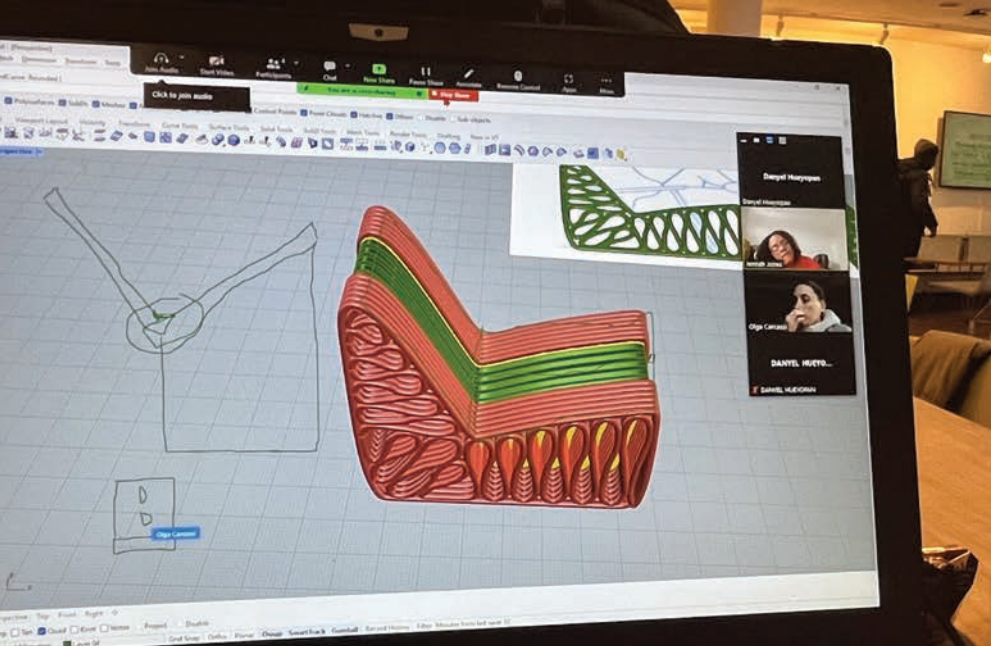
3

4

black

5



















A photograph of a dense, overgrown tropical forest. A dirt path leads through the thick vegetation towards a partially ruined building with a brick wall and a doorway. The scene is filled with various tropical plants, including palm trees and large-leafed shrubs. The lighting is dappled, suggesting sunlight filtering through the canopy.

## Movement / Post Colony: Choreographies of the Impossible Kinesthetic Resistance

**Instructors: Mario Gooden and Daniel Chang**  
**Collaboration w/ Mingyue Zhang and Chris Kumaradaja**

Kinesthetic Resistance refers to the act of using physical movement as a form of defiance against oppressive systems, ideologies, or structures. It involves harnessing the histories and power of movement to challenge dominant narratives, norms, or institutions. The intervention expands across the landscape as an academy that intends to manifest in ways of embedding expressions to assert autonomy, agency, and/or dissent from colonial histories.

At the site of the Imperial Agricultural School of Bahia (previously known as the Mosteiro de São Bento das Lajes), set beliefs and hierarchies of catholic and capitalistic extended to land use. The short lived school enforced theoretical practices of agriculture, failing to connect with its land and people. While the school was able to migrate, the people, mostly children of past slaves, were forced to adapt within this post industrial landscape.

In visiting the school, it became clear that it had become

a container for multi-generational diasporic movement for both human and inhuman histories. The current school, in ruins, stands proudly among a thriving ecology of plants, animals, and insects. While thriving, the ruin stands inanimate. Meaning the site, since its establishment, still lacks a connection between its land and people.

The work presented, cut monument, oyster-gentry, and muses of the seed are three collective actions, on the earth, water, and air respectively, that challenge colonial values by subverting imposed narratives of living and being. By reclaiming this energy, the interventions create environments that learn from histories to create systems of ritual, economic, and historical reparations for descendants of slaves and indentured servants alike. To set forward new aspirational forms of living with the body, the earth, the water, and equally, the atmosphere.



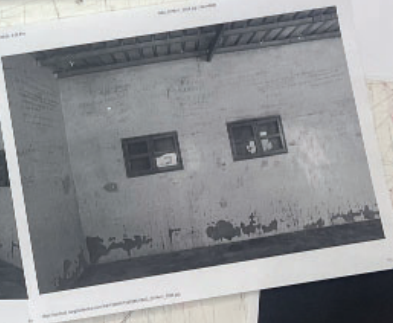
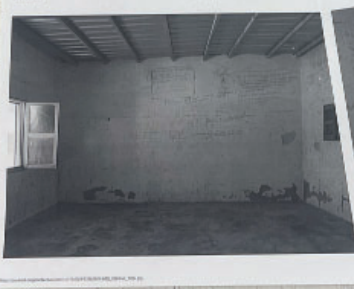
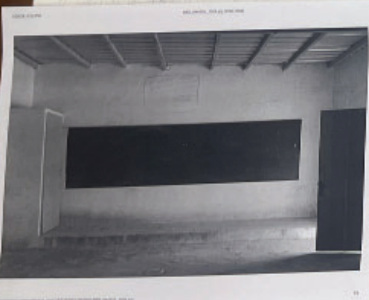
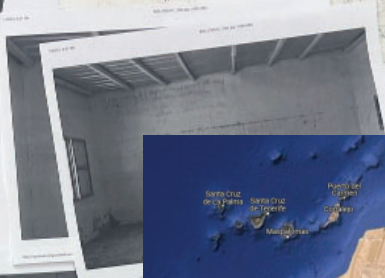














we the clandestins, we don't look for women, we are only looking for 2000 to give to those who work at sea.



Being in Nouadhibou for three months, going to bed with Mace, asking for which isn't good, and when you are about to leave, the police get you and he will never forget that in his life.

this year is my year of my promotion

the enemies of Africa are not the Africans the fools dont change

Thought of the day, written by Massayd

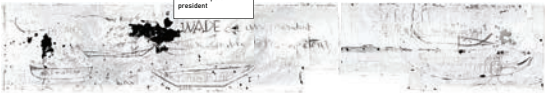
suffering is a school of wisdom. if there is a certain thing there, you can stop looking at it in bitterness and the days spent in it will certainly lift your spirits. the laugh has a fight what can he do with our soul he will never give me grace



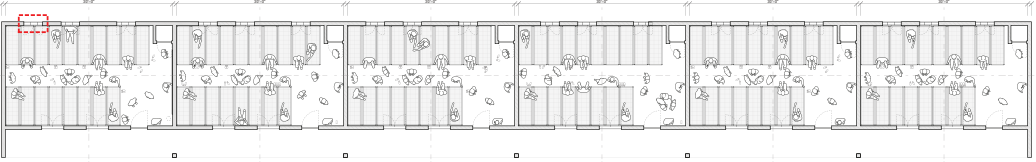
to quickly get into spain, you switch to the red currant of Nouadhibou



Wade is an incapable and incompetent president



The edge of diabolus Mauritania Alcatraz



The mauritanians are like bad dogs

Les Palmes, Kari



We are young senegalese, who left senegal on the 17th of september to go to spain. We have been at sea for 7 days and we were left without gasoline, and the Mauritanian navy got us and they brought us to morocco and kept us for four days there, and afterwards they took us to Mauritania.

Good luck to the clandestins!

Three months in Nouadhibou. But we are not sorry. Barca or hell! Barca or Barca.

The senegalese are the best in West Africa, and we are proud to be clandestins.



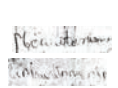
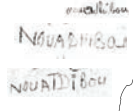
We are not thieves, nor aggressors, nor assassins. We are clandestins.

Peace and Love! Long Live Senegal!

"Stop" (drawing of a police officer chasing a clandestin with a gun)

On part of the senegalese who came to morocco, we are 100 and who packed on our boat.

So that the good God gives us the chance to never return here once more



So that the good God gives us the chance to never return here once more

Sergine Touba, give thanks to Sergine Touba

What you're giving to us "clandestins", give it to the poor Mauritanians and leave us in peace!

What you're giving to us "clandestins", give it to the poor Mauritanians and leave us in peace!

Thank you, suffering is a conquest. 23 days, we were the best. Thank god, without death. "Senegally"

Diare Dieul Sergine Touba



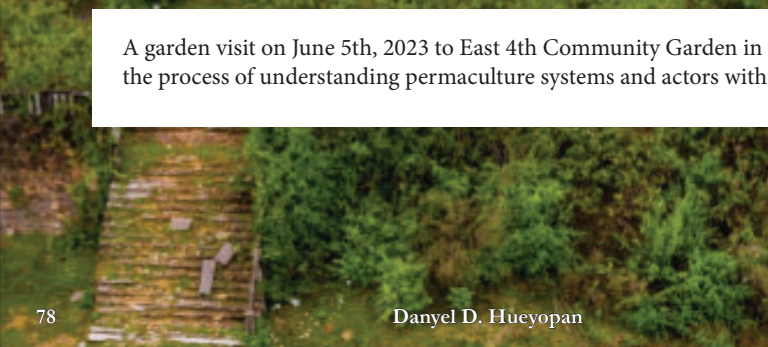
In God we trust



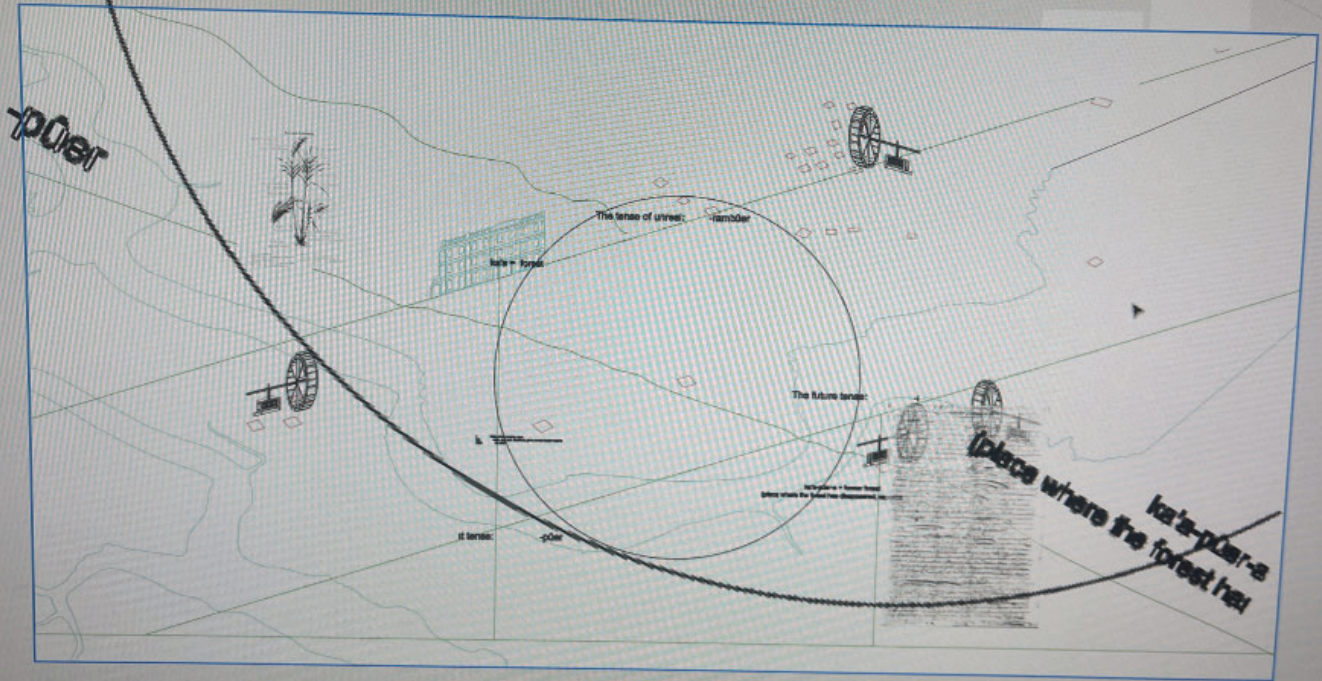
Gango



A garden visit on June 5th, 2023 to East 4th Community Garden in Kensington began the process of understanding permaculture systems and actors within drawings.







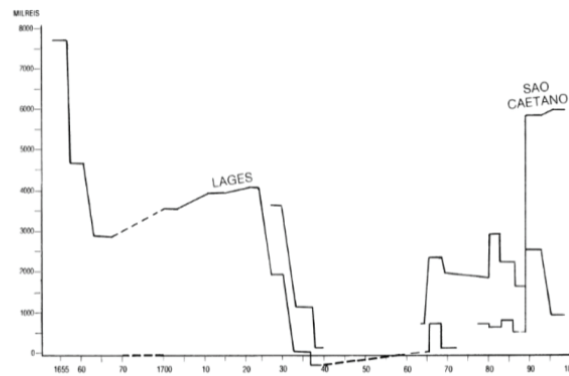
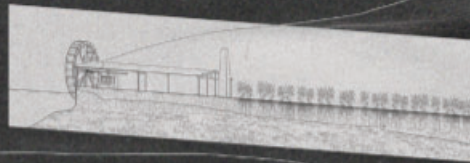
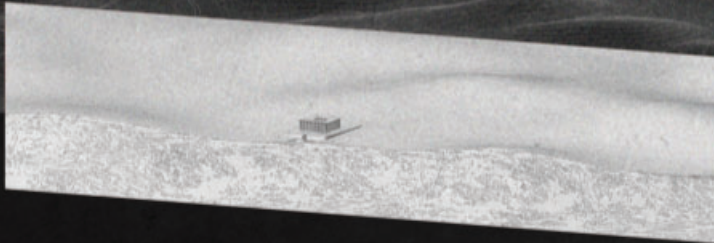
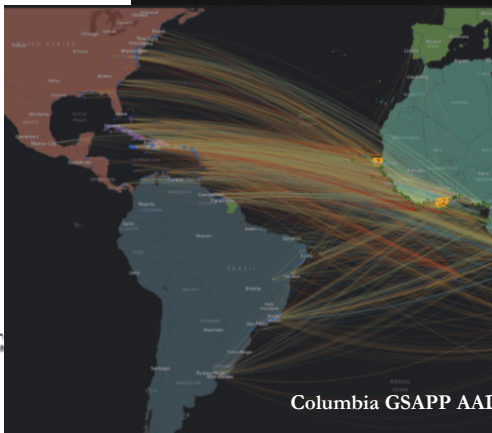


FIGURE II: SHARE OF SUGAR, MOLASSES, AND ENGENHO LAND RENTS OF TOTAL INCOME OF THE BENEDICTINES OF BAHIA, 1652-1800



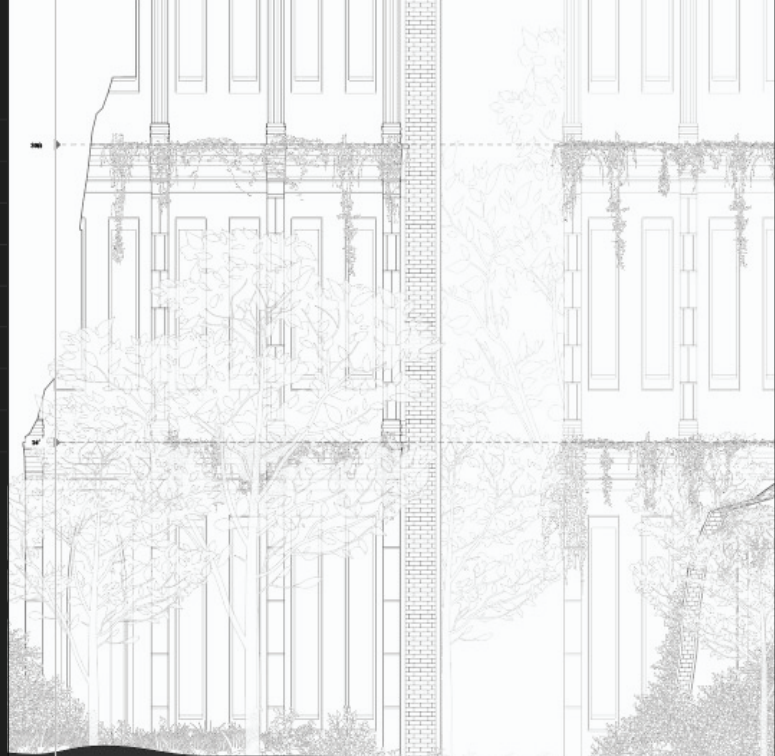
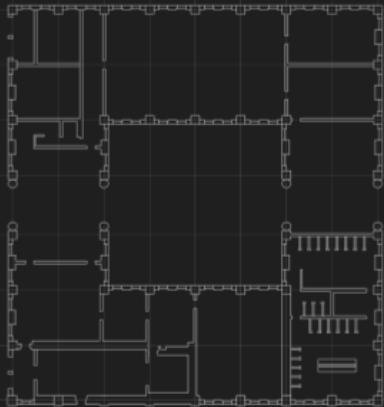
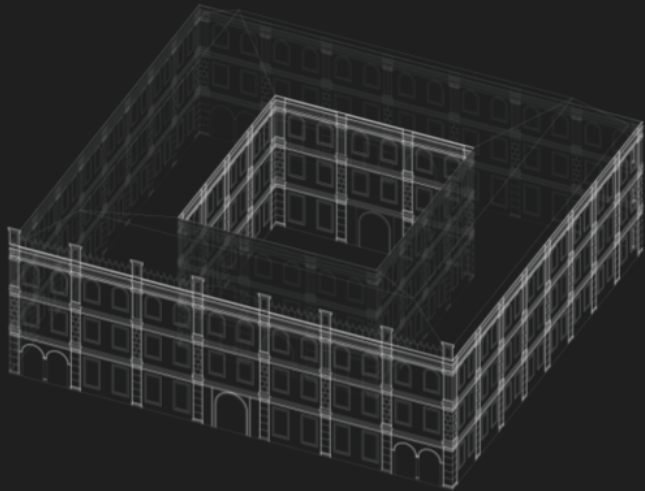
STUART B. SCHWARTZ

5

TABLE II: INCOME AND EXPENSES OF BENEDICTINE ENGENHOS IN BAHIA, 1652-1800

DATES	ENGENHO	SLAVES (ON MILLRITS)	EXPENSES (ON MILLRITS)	INCOME	PROFIT	ANNUAL AVERAGE
1652-56	Lages	87	13,373	44,239	30,866	7,717
1657-60	Lages	113	5,960	20,020	14,060	4,687
1663-67	Lages	115	5,527	14,076	8,549	2,850
1700-03	Lages	117	3,450	14,356	10,906	3,635
1707-10	Lages	111			9,769	
1711-14	Lages		3,234	15,326	12,092	4,031
1714-23	Lages		5,018	17,346	13,328	4,109
1726-29	Lages	94	4,971	10,848	5,877	1,959
	S. Caet.	50	2,693	13,988	11,295	3,765
1732-36	Lages	79	2,723	3,296	574	143
	S. Caet.	46	1,570	5,293	3,733	1,244
1736-39	Lages		1,715	1,160	-555	-185
	S. Caet.		997	1,720	723	241
1764-66	Lages		723	915	73	37
	S. Caet.		1,312	3,687	2,375	792
1765-68	Lages		1,388	3,770	2,382	794
	S. Caet.		1,761	9,168	7,407	2,469
1769-72	Lages		1,448	2,106	658	219
	S. Caet.		1,629	7,709	6,080	2,027
1773-80	Lages		2,675	5,066	2,391	797
	S. Caet.		1,626	7,426	5,800	1,933
1780-83	Lages		4,148	6,051	1,903	634
	S. Caet.		2,811	12,118	9,307	3,102
1783-86	Lages		1,684	4,406	2,722	907
	S. Caet.		4,287	11,459	7,172	2,390
1786-89	Lages		2,121	3,859	1,738	579
	S. Caet.		4,936	9,765	4,859	1,619
1789-93	Lages		3,453	11,196	7,743	2,581
	S. Caet.		5,335	23,140	17,805	5,935
1796-1800	Lages		2,674	6,369	3,695	924
	S. Caet.		7,555	31,703	24,148	6,033







A museum visit on March 3rd, 2024 to Pinacoteca de São Paulo exhibit on Lygia Clark in Sao Paulo influenced me to study energy formally and programmatically.



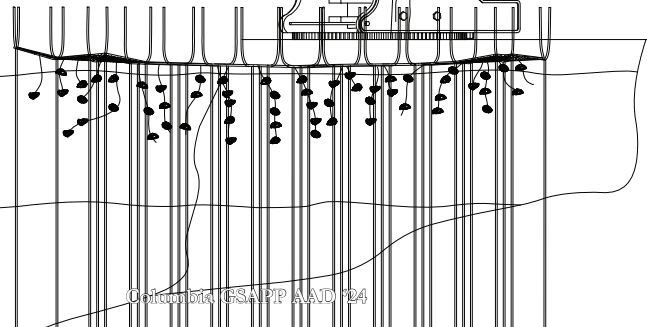
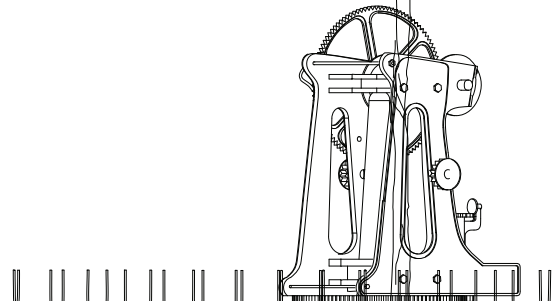


A site visit on March 8th and 9th, 2024 to the Imperial Agricultural School of Bahia in Salvador, Bahia to understand the state of the school's urban ecology.



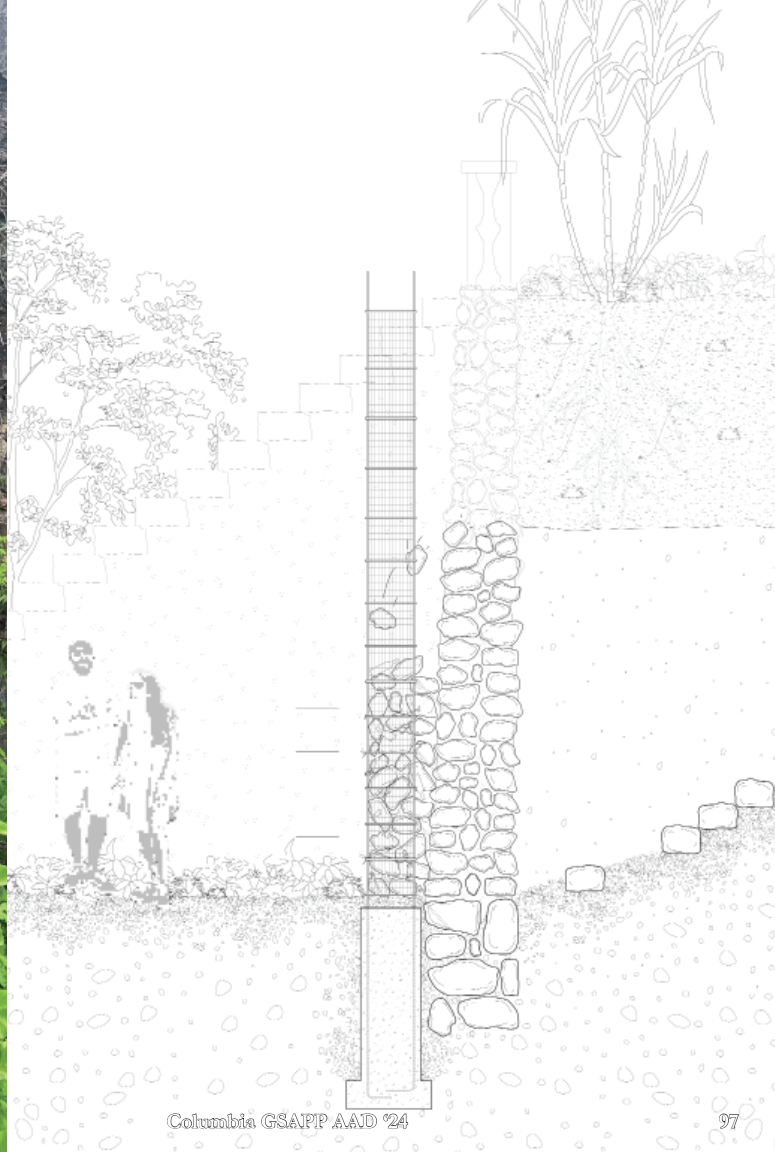


















Architectural drawings and text on the wall, including a section titled "The Car Monument" and a drawing of a structure with the word "COLLEGE" visible.









# overgrown undergrowth

Exploring Community Empowerment in **East Flatbush, Brooklyn**

Columbia GSAPP Spring 2024 Joint Studio



**An Interdisciplinary Problem: Transit Modes Open Avenues of Comprehensive Design and Planning**



**Change in Character**

2011:

1266 New York Avenue



2022:

1266 New York Avenue



**Challenges & Opportunities**



Preserving Character & Providing Sustainable Housing Options

Neighborhood Economic Vitality & Connectivity

Job Additions & Site Reimagination

**Change in Character**

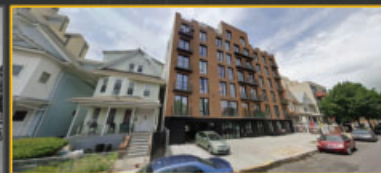
2011:

1270 New York Ave



2022:

1270 New York Ave



**Residential Opportunities**

\*Loss of Black Homeownership:

**Preserve Character**

**Provide Sustainable Housing**

**Wealth Generation for Property Owners**

Danyel D. Hueyopan

**Change in Character**

2013:

3417 Glenwood Road



2022:

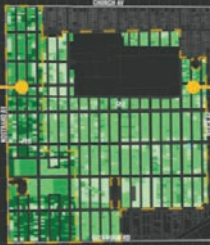
3417 Glenwood Road





## Outdated Zoning

R6 Max Residential FAR = 2.43



R4 Max Residential FAR = .75



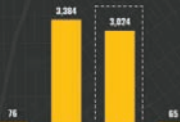
## Development Trends: Transit & Zoning



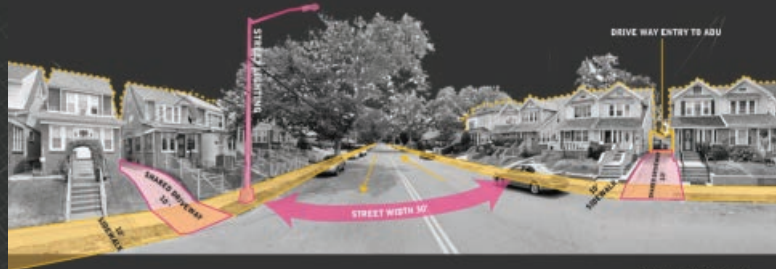
Net Gain in Residential Units after Redevelopment



## Working with the Existing Fabric: Accessory Dwelling Unit Potential



## Typical East Flatbush Residential Street Setup

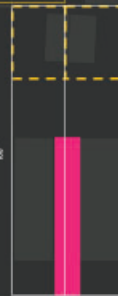


20', 30' & 40' LOTS

## Our Proposed Zoning Framework

ADU Footprint

Alley / Driveway



### ADU Regulations

- NO 5' perimeter
- 10' distance from Home
- Parking Access
- 25' Building Height
- 800 SqFT Maximum

Not Drawn to Scale

## Pathways Forward: Financing

### Community Land Trust

- Homeowner can put whole or partial lot into trust
- Protect affordability and prevent developers from building market rate
- Can be leased back to family

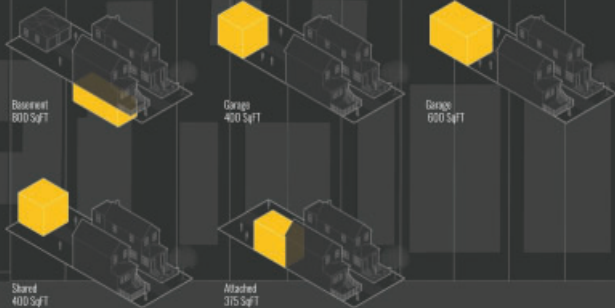
### Home Equity Line of Credit

- Revolving line of credit, can be drawn and paid down
- Limited to amount of equity in home and credit worthiness
- Variable interest rate changes with market conditions

### Plus One ADU Program

- Pilot program from New York City HFD
- \$220,000 loan limit
- 5% fixed interest rate: 15-Year Term
- Homeowner may make up to 165% AMI
- Property must not have any tax liens or arrears
- Monthly payment ~\$1,700

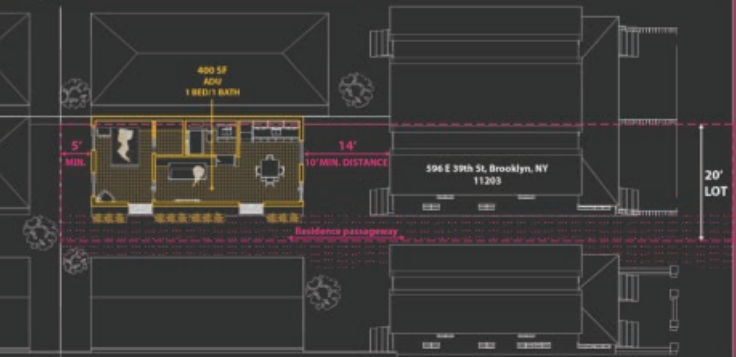
### Exploring 20' ADU Layouts



ADU

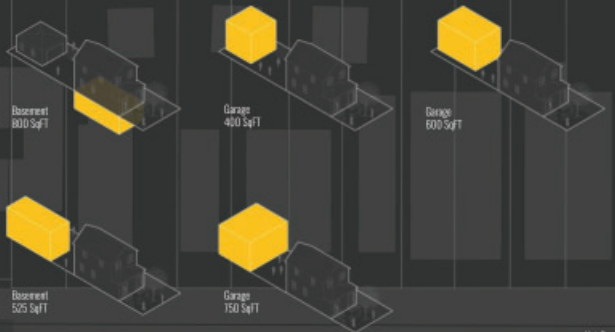
All Drawn to Scale

### ADU - Tenant - 400SF



Street

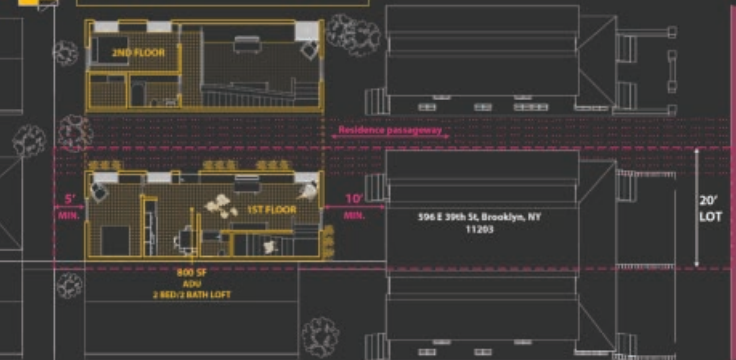
### Exploring 30' ADU Layouts



ADU

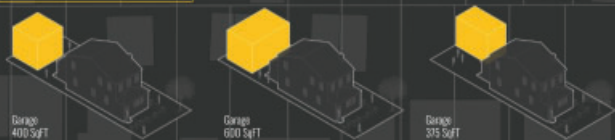
All Drawn to Scale

### ADU - Tenant - 800SF

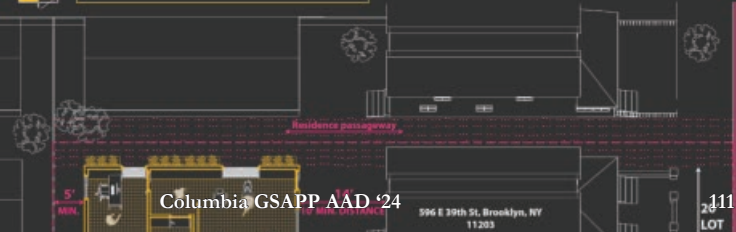


Street

### Exploring 40' ADU Layouts



### ADU - Small Business - 400SF



Street















## What would an ADU look like in your Neighborhood?

Citywide Incidental development

Where can an ADU be built in East Portland?



Map showing potential ADU locations in East Portland.

How big can an ADU be built?



### Financial Incentives

- 1. Community Land Trust
- 2. Bonus Density Units
- 3. Property Tax Exemption
- 4. Pay for Stay Program