01  REEF / MAX
Urban Design
Spring Studio / GSAPP / 2022
Co-housing, Restoration, Eco-tourism

02  REGENERATIVE FLOW
Urban Design
Summer Studio / GSAPP / 2021
Infrastructure, Restoration, Superfund

03  BUHI PURODUCTION SUPERCHARGED
Urban Design
Fall Studio / GSAPP / 2021
Cultural, Art & Film, Urban Furniture

04  RECOMBINANT URBANISM
Urban Studies
Spring Elective / GSAPP / 2022
Infrastructure, Mix-use, History

05  GSAPP OUTDOOR CLASSROOM
Community Engagement
Fall Elective / GSAPP / 2021
Education,

06  SECURE BASE
Visual Studies
Fall Elective / GSAPP / 2021
Interior, Texture, Color matching
Our project provides an alternative street-based urban design framework to the existing parcel-based development. We propose an urbanization that focuses on mangrove restoration and creates an urban pattern using the existing roads. By stopping the current model of extractive development and implementing a community land trust model, our design provides maximum protection of the reef through sustainable development and nature restoration.
EXISTING: RE/MAX

Ambergris Caye is currently a playground for foreign development and tourism. With two major pressure points located in the Eastern Shoreline Resorts and the Grand Belizean Estate. These 2 invasive entities force the intermediate area of wetlands and marshes to be buried by the extractive tourism industry. In the future, if the government keeps selling the land to foreign speculations, the grid will continue expanding, exaggerating the environmental and social issues.

PROPOSED: REEF/MAX

Our project provides an alternative STREET-BASED URBAN DESIGN FRAMEWORK to the existing parcel-based development. We propose an urbanization that FOCUSES ON MANGROVE RESTORATION and creates an urban pattern using the existing roads. By stopping the current model of extractive development and implementing a community land trust model, our design provides maximum protection of the reef through sustainable development and nature restoration.

SECRET BEACH
Secret Beach puts in extra effort to fabricate a vacation hot spot in the middle of natural reservations.

NEW TOWN
Expecting Secret Beach to be a new real estate market, developers has superimposed a “foreign” grid onto the nature.

EAST SHORELINE RESORT
The resort strip is the example of tourism and an environment that is fabricated to suit the needs of the occupant.

CONDITION:
Roads in the site are relatively wide, with an average of 40 ft. They have been elevated and paved with limestone by the developers.

STREET-BASED URBAN DESIGN FRAMEWORK
A framework that focuses on sustainable development and nature restoration.
01 HIGH DENSITY

02 LOW DENSITY

03 RE-NATURE

04 WILD NATURE
01 HIGH DENSITY ZONE

Planting

Waste Management

Market Space
02 LOW DENSITY ZONE

Communal Eating  Module Buildings  Charging Station
03 RE-NATURE ZONE

Kayak Storage
Mangrove Nursery
Nature Education
These four zones are connected by a golf cart and boat shuttle system. All the residents can reach the shuttle stop within a five minutes walk. In the future, when the sea level rises, this network has the ability to rely more heavily on a boat system to connect to the eastern shoreline and lower ambergris caye.

In the end we envision this alternative street base urban framework as a tool for housing justice in Belize. By replacing an extractive model into a community livelihood model, we can use stewardship to maximize protection of the reef with sustainable development and nature restoration.
The project considers the two rivers and treat their waters not as the byproduct of a constructed and defined site, but through a lens of material practices and physical metamorphoses: less concerned about the way it looks, but the way it performs. Through land swap and eminent domain, we propose a calculated retreat from Kearny point - a flood prone area - and envision a strategy where every component plugs into a larger network towards a resilient ecosystem.
CURRENT SCENARIO - FLOOD INSURANCE

- **Sea level rise**: 2-3 feet
- **Extreme heat**: 0.3/year to 32/year
- **Precipitation**: 256mm to 328mm
- **Temperature**: -3°C to 5°C to 0°C to 9°C to 19°C to 28°C to 21°C to 32°C

- **2021**: Current scenario
- **2100**: + 1M SLR - Heightened damage
- **2200**: + 2M SLR - Devastated infrastructures

Source:
“At the juncture of the built environment x climate research, we are a diverse group of government officials who have gained momentum in our call to action: shifting focus from crisis on land to water. We have since founded the US. Department of Waters - a federally funded government program, practicing within and beyond urban design in relation to the water crisis - propelled from a contested past towards our equitable and collective futurities.”
EDGE INTERVENTION | Soft edge & Hard edge

1. WATERFLOW

2. WATER PURIFICATION

3. AQUACULTURE

4. HUMAN ACTIVITIES

5. COMMUNITY USE

6. INDUSTRY USE
BUFORD PRODUCTIONS SUPERCHARGED

Location:
Atlanta, USA
Keyword:
Cultural, Art & Film, Urban Furniture
Team:
Jiamin Huang, Shinan Liu, Rotina Tian, Kenny Zhou,
Professor:
Emanuel Admassu, Nina Cooke John, Chat Travieso, Alexa Tsien-Shiang

The film industry is transforming Atlanta. The spread of new studios as gated communities form physical barriers and the creation of “camera-ready communities” initiative turns people's backyards into the film studios’ property.

Studio City as a proposed gated film community will bring an exploitative relationship into our site Buford Highway. Provided with infrastructure built into local culture, Buford Highway will be transformed into a supercharged cultural corridor that fully embraces the liberation of cultural production. The film studio is Buford Highway and Buford Highway is the film studio.
THE BUFORD HIGHWAY CORRIDOR IS ONE BUILT BY HARDWORKING IMMIGRANTS.

IMMIGRANTS ARE VULNERABLE POPULATIONS

“We have a large population that cannot legally work in the area, so it severely limits their ability to move up in society.”
Stephanie Coreas, Director of Los Vecinos de Buford Highway

PEOPLE NEED TO UNDERSTAND OUR CULTURES

“A lot of our neighbors come to Buford Highway to eat authentic ethnic foods, but they don’t understand the cultures and heritages behind the food.”
Lily Poblan, Executive Director of We Love Buford Highway
WE WANT TO...

1. Encourage self-expression
2. Encourage authentic culture production
3. Encourage small-scale filmmaking
We are proud to share our culture and customs by decorating outdoor dining with traditional fabrics.

**Multi-cultural Food Bazaar**
Accessibility of local food shapes the community’s sense of belonging. The international bazaar is the best stage to showcase authentic food and culture.

**Accessible Film Workshop**
The film school consists of a series of film workshops in open spaces. Everyone can learn about the film-making process so they can promote their cultures.

**Community Theater**
The theater is a place to showcase all the cultural products produced by the local community. It’s a place for people to test out their products and enjoy unfamiliar cultures.
The column system liberates the strip mall by extending activities and sharing spaces.

I want to show off my food to the world, so more people can understand the traditions and culture behind their!
This seminar examines how cities grow and develop over time. It employs a theory of urban actors and conceptual models as tools for the analysis of the city, its urban systems and design ecologies. The course maps transformations in these actors and their models at various scales over time in specific locations. Urban actors use conceptual models to link to the larger forces shaping a city network.
GEOGRAPHY:

Xiamen is a sub-provincial city in southeastern Fujian whose urban core grew up from the port of Xiamen on southern Xiamen Island, now located within Siming District. It now also includes Gulangyu Island and the rugged coast of the mainland from the northeast bank of the Jiulong River in the west to the islands of Xiang’an in the east. Xiamen Island lies about one degree north of the Tropic of Cancer.[12] It is divided between Huli District in the north and Siming District in the south. Siming also includes Gulangyu. Its mainland territory is divided among Haicang, Jimei, Tong’an, and Xiang’an districts.
The Xiamen City Healthy Pathway Across the Island project is a trail that stitches together many of the city’s public spaces— including parks, mountains, and plazas— across varying elevated and ground-level pedestrian pathways.

Xiamen’s BRT system was the first in China, connecting many key points while facilitating new transit-oriented development. The Xiamen bicycle skyway covers five residential areas and three business centers, together creating a recombinant armature transport system for pedestrians, buses, and bicycles.
Xiamen university is an example of enclave that allows only certain people to access its facilities. Visible fences such as the main gate separate people allowed and not allowed inside.

The campus is also bordered by a road, separating it from the rest of the city. Invisible fences, such as ID cards, work as a soft boundary. There is a major gathering point in the middle of campus for informal and formal public gatherings. The university is located near Shapowei, a former fishermen's village turned into a tourist attraction.
Shapowei is a traditional fishermen’s community and the birthplace of Xiamen. The native fishing community gradually diminished until 2015, when the government completely shut the area down. Recently, due to the prime location adjacent to Xiamen University, Huandao Road tourist belt, and Zhongshan Road business district, Shapowei has become the most popular tourist attraction. In addition, the Shapowei community brands as “Western Art District” as a catalyst to stimulate the revival of the “old community” in order to attract young people.
Students’ mental health may benefit from spending time outdoors, a finding that is especially relevant for students who attend college during COVID-19. During the age of COVID-19 it becomes even more important to create viable options for alternate settings to continue learning in person, while keeping everyone involved safe and comfortable.

Through co-designing multiple settings of learning experiences, students and faculty have more opportunities to foster engaged learning while activating the space and energizing the culture of Columbia University’s campus.
ORGANIZING, SUPPORTING + FUNDING ENTITIES:

Columbia University COVID Emergency Funds are available for students and have been extended to initiatives that support safe in person learning on campus.

This project was initiated by a group of students in the Urban Design Program. Following the announcement of the idea, the students invited all other GSAPP students to be involved. After finalizing the student group a faculty advisor was instated to facilitate and mentor the students as they pursued the goal of attaining the outdoor classroom.

The first step was to implement a Pilot Project that exposed the campus to how an outdoor setting could function. This also allowed the organizing group to gather feedback and improve their ideas.

After compiling the information gathered from the Pilot Project, the team develops a Manual for holding Outdoor Classroom Day. In collaboration with Columbia Event Management the student team and faculty finalize a structure.

The end result is a prototype, accessible to all, to allow people around the globe at all universities to participate in Outdoor Classroom Day and other opportunities to implement outdoor learning.
PILOT PROJECT

Through utilizing outreach tools such as emails, posters, social media and word of mouth, the first event was held as the Urban Design Presentations where reviews were held in outdoor courtyard between Avery and Fayweather Halls. This initial event allowed the team working on the initiative to gather data of additional needs as well as to involve the students and professors in providing feedback for the future.
METHODS & TOOLS USED

Outdoor Classroom Day is a way to engage the community of Columbia University to take part in holding classes outdoors. Through this, the benefits of holding classes outdoors will be felt at a personal level and thus the future of a potentially permanent outdoor space is higher.

To develop the guide, firstly we take inventory of available outdoor spaces, evaluating each location for shade and other conditions. Then working alongside Columbia Event Management to design a system for reserving space for classes. Also coordination with IT to have suitable Wi-Fi access.

Handout will contain a map of all locations that can effectively hold outdoor class, an inventory of the available furnishings such as tents, chairs, tables, outdoor furniture, technology (sound systems, projectors, microphones, wi-fi access...etc.) and the sites which have them available and the sites which can be added to. The guide can be used by both students and professors to facilitate Outdoor Classroom Day.
Introduction: The Ideas Behind Outdoor Classroom Day

Through co-designing multiple settings of learning experiences, students and faculty have more opportunities to foster engaged learning while activating the space and energizing the culture of Columbia University's campus.

So, how to move our classroom outside?

01 Choose the spot

Columbia's Morningside campus offers grass and hardscape areas that can be used for various outdoor or tented events, from casual picnics to formal, seated dinners. You can find them on the website https://eventmanagement.columbia.edu/content/outdoor-spaces.

So, firstly, choose a spot you wish to hold an outdoor class on campus!

02 Make a plan

Things you need to consider organizing in advance are:

- Checking the weather, and choose a day with great weather without rain and strong wind.
- Sourcing essential materials to provide shade, ground cover and seating at least a week or two in advance.
- Assembling professors, TAs, students to help you plans, arrive early at the site to hold a space, and to help you setup and clean up at the end of the day.
- People to photograph/document the event. Locate your CLASSROOM where it will receive good visual exposure.
- A plan for engaging people who come by your CLASSROOM.

03 Reserve the spot

Visit Event Management website https://eventmanagement.columbia.edu/content/outdoor-spaces to check the availability of the spot and reserve the spot 1 week before your event.

If the class is open to public, you can also put up a sign on the spot 2 days before your event to engage and invite students from other programs to participate in the class!

04 Set up

The fundamental elements of a good outdoor classroom space are seating, shade, devices and technology, and a sense of relaxation and focusing.

05 Clean up and recycle

Be prepared to completely, totally, utterly leave your campus landscape in a better condition than you used it.

- Bring a broom, dustpan, trash bags and a good pair of gloves.
- Sweep like this is your property, because it is. Help your campus erase the trace of others by swiping the whole block!
- Return the materials you borrow in 1 day when the project is over.
- Use Craigslist or Freecycle to keep materials from entering the waste stream.
- Re-use first and recycle if you can't re-use.

06 Getting the word out

Join the OUTDOOR CLASSROOM Day Network!

OUTDOOR CLASSROOM Day Network is the open-source, user-generated living archive of the worldwide event.

We strongly encourage prospective participants and anyone interested in the event to join the Network to share and gather information, advice and, of course, photos, videos, interviews and anecdotes related to OUTDOOR CLASSROOM Day installations. Check the OUTDOOR CLASSROOM Day Network and make some new friends!
Secure base, a place of safety, represented by an attachment figure (e.g., a parent), that an infant uses as a base from which to explore a novel environment.

In the first view, surrounded by the glacier, the secure base was very close to the ground, representing its closeness and availability to the attached one. Inspired by the color of the womb, everyone’s first physical secure base, decorations (sofa and the cushions) are all pinkish and grounded, which offer a feeling of security and reliability. Personal belongings such as a diary book and glasses floating in the air symbolize there’s no judgment within the secure base, and one can freely express and be themselves.
SCENE I: Availability

1 Modeling
2 Color blocking
3 Concept Texture_Womb
4 Concept Texture_Glacier
Scene II: Security

1 Modeling
2 Color blocking
3 Concept Texture_Womb
4 Concept Texture_Glacier
1 Modeling
2 Color blocking
3 Concept Texture_Womb
4 Concept Texture_Glacier