

DAAP

cares₂₀₂₄

A faint, light green world map is visible in the background of the left side of the slide, showing the outlines of continents and countries.

DAAPcares MISSION

DAAPcares honors and supports the work of DAAP students, faculty, staff, and alumni to improve the quality of life around the world. From local to global, individual to multidisciplinary, and academic to professional - we connect scholarship to solutions. These accomplishments are celebrated annually in a showcase of innovative projects and research that represent our mission to achieve sustainable outcomes with environmental, economic, and cultural equity.



DAAPcares Student Organization

Faculty Advisor: John Dixon

Staff Advisor: Lora Alberto

Graduate Assistant: Rachel Carr

Student Leadership:

Margaret Dull

Chloe Beckmeyer

DAAPcares Awards Jury

John Dixon, SOD

Brian Grubb, SOP

Mrinalini Aggarwal, SOA

Anca Matyiku, SAID

Printing Thanks

Michael Everett, Photo & Print Lab

AGENDA

- INTRODUCTIONS
- AWARDS
- PROJECTS
- DAAPCARES: YEAR ROUND



Awards

DEI

Art History
Outreach

Compassion

inclusivity &
equitability
for people
with different
abilities

Community

Hidden Little
Corners

Sustainability

Eutrophication
Museum

Interdisciplinary

Pollinator City

Awards

**SOD
Undergrad**

Cincy
Composts

**SAID
Undergrad**

Community
Building
Blocks

**SOP
Undergrad**

Back to the
Future!

**SOD
Graduate**

Full Inclusive
Participation

**SAID
Graduate**

Covington
Rehab

**SOP
Graduate**

Lead Pipe
Replacement

inclusivity and equitability for people with different abilities

Professor | HORT 3050, LAND 7051, HORT 2040, LAND 7061

LOCATION: Cincinnati, OH, USA

PARTICIPANTS

Professor: Stevie Famulari Gds

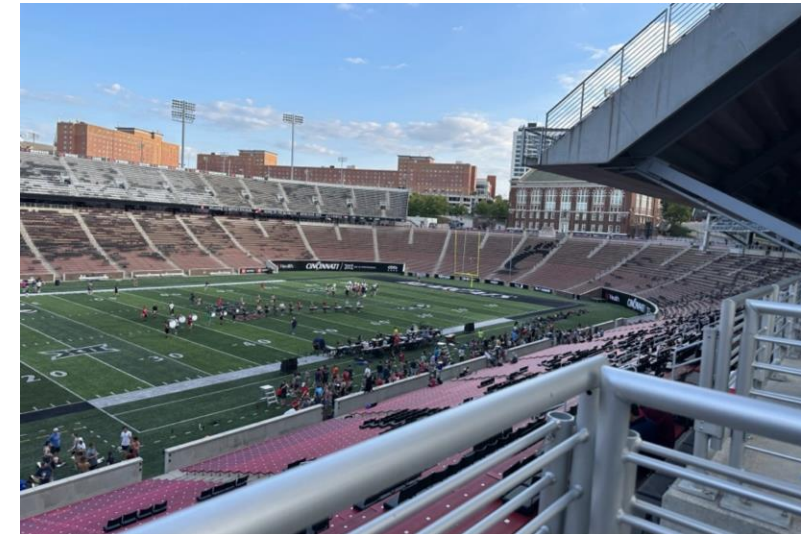
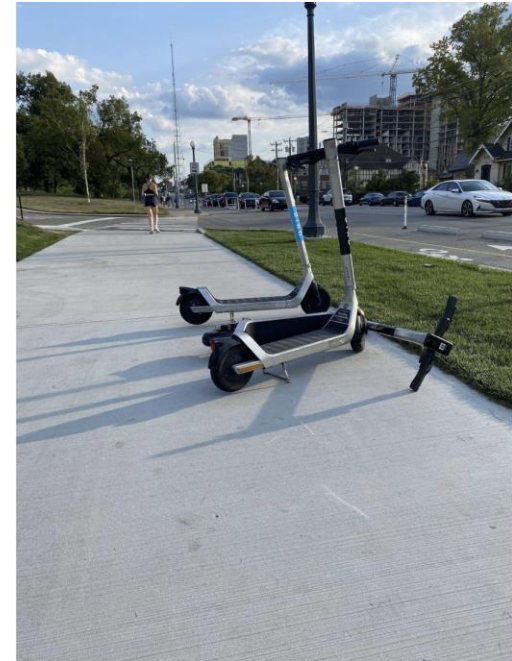
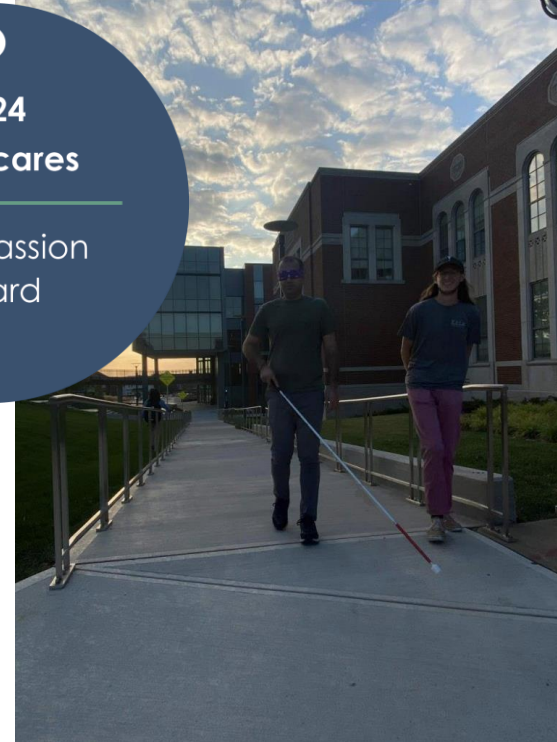
Students: 50 Students from 4 courses in Horticulture and Landscape Architecture

PROJECT DESCRIPTION

Inclusivity in design is vital. All my students in my all courses in the Autumn 2023 semester were required to spend one class time in a wheelchair and some further spent additional time using a walking cane. This lesson is done to teach students- through experience- to celebrate inclusivity in their design process (notably in landscape architecture and horticulture), and not as an ADA required afterthought. The effects of this lesson continue not just through essays and images, but also through their designs in my classes and beyond to their careers.

2024
DAAPcares

Compassion
Award



SOP

Terra: Perinatal Mental Wellness Preparation App

INDL 4045 | PRODUCT CAPSTONE STUDIO | Professor Peter Chamberlain

LOCATION: Cincinnati, OH, USA

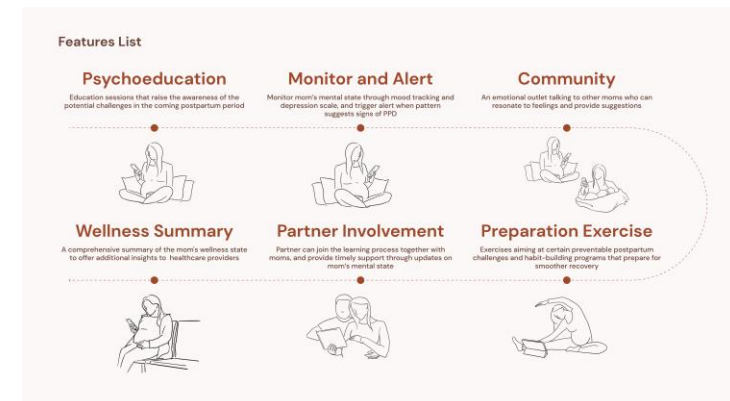
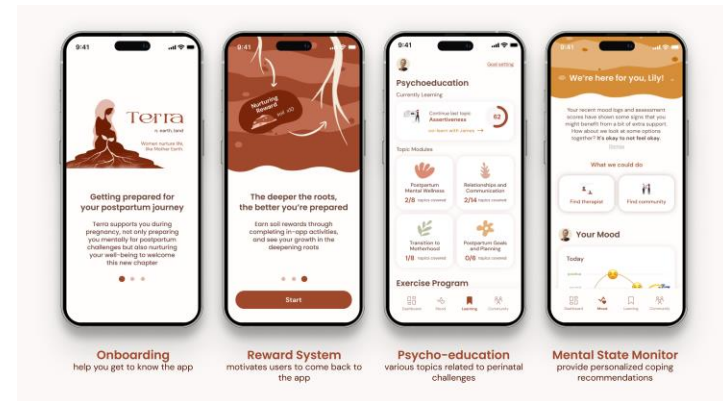
PARTICIPANTS

Students: Zhixin Wang

PROJECT DESCRIPTION

Terra is a mobile app crafted to support new mothers on their journey to positive perinatal mental wellness. It mainly offers psycho-educational resources to illuminate postpartum challenges and features to monitor mental health from early pregnancy. By fostering awareness and providing continuous support, Terra empowers women to navigate their pregnancy with confidence and embark on their postpartum journey feeling prepared and reassured.

SOD



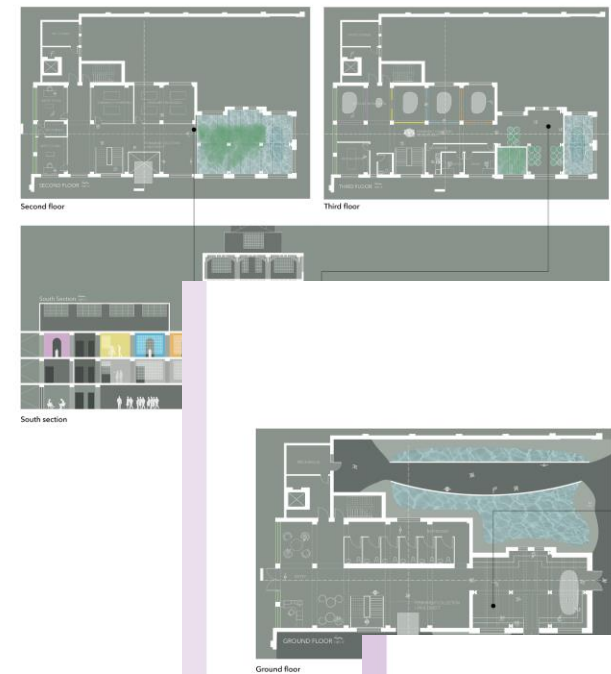
Eutrophication Science Museum

2002 | Studio | Professor Amber Wasinski

LOCATION: Cincinnati, OH
PARTICIPANTS
Students: TT Klafter

PROJECT DESCRIPTION

This project is a museum to teach the public about the impact of water pollution on the environment and how eutrophication can be prevented and remedied. The site of the science museum is the former Peter's Cartridge Factory in Maineville, Ohio. When active, the factory polluted the site, including the nearby river. The museum explains the process of water purification through an immersive experience. It emphasizes the problem of eutrophication, which is caused when pollution causes algae to grow on the surface of water, killing all the organisms within. Mussels have been used to naturally and successfully filter and purify bodies of water that have suffered from eutrophication and this will be demonstrated in the museum as well.



EUTROPHICATION SCIENCE MUSEUM

This project is a museum to teach the public about the impact of water pollution on the environment and how eutrophication can be prevented and remedied. The site of the science museum is the former Peter's Cartridge Factory in Maineville, Ohio. When active, the factory polluted the site, including the nearby river. The museum explains the process of water purification through an immersive experience. It emphasizes the problem of eutrophication, which is caused when pollution causes algae to grow on the surface of water, killing all the organisms within. Mussels have been used to naturally and successfully filter and purify bodies of water that have suffered from eutrophication and this will be demonstrated in the museum as well.

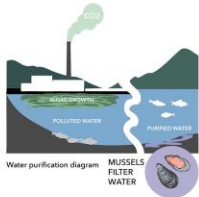


Site Plan of Peter's Cartridge Factory, adjacent to the Little Miami River

SAID

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DAAPcares

Sustainability
Award



Pollution from factories causes algae to grow on the surface of the water, killing all the organisms. When mussels are introduced to an ecosystem, they naturally filter and purify the water.

Cincy Mobility 2050 - Re-Imagining Cincinnati's Transit

PLAN 7009 | Capastone | Professors Leah Hollstein & Rainer Vom Hofe

LOCATION: Greater Cincinnati Metro Area
PARTICIPANTS

Students: Lizzy Geraghty, Weston Floro-Hageman

PROJECT DESCRIPTION

By 2050, our goal is to have every Cincinnatian walk out their door and be able to choose transit. We want Cincinnati residents to be able to complete inter-neighborhood, across neighborhood or to nearby cities trips with public transit. Bringing a Germany-esc mindset to our station design, from experiences studying abroad, we want multi-use transit hubs and stations that re-invigorate the economy, connect communities, and provide critical last-mile services to residents.



Commuter Rail

Higher speed, longer distance, lower service frequency, lower stop frequency.

High Level Transit

- Route serves commutes
- Does not serve final destination
- Intercity reach

Infrastructure

- Uses existing, separated right of way
- Supports transit oriented development
- Creates hub/transfer station

A schematic map of a commuter rail network. It shows a central vertical line with several horizontal branches extending to the left and right. Stations are marked with dots along the lines. The map is enclosed in a dark brown border.

Last Mile Service

Short distance, people centered and scaled implementations

Pedestrian Level

- Route serves door to transit form
- Popular paths throughout neighborhoods
- Promotes Tactical Urbanism where applicable (alleys, underutilized spaces, etc)

Infrastructure

- Shares right of way
- Dedicated routes
- Increased signage
- Storage

A schematic map of a last-mile service network. It shows a central vertical line with several horizontal branches. Stations are marked with dots, and some are highlighted with red circles. The map is enclosed in a dark brown border.

Expand

Commuter Rail

- Would mainly serve historic suburbs
- Use existing infrastructure and historic routes
- Less frequent but timed for commuting

Last Mile Service

- Bus routes can serve higher transit, not commutes
- Bike and ped mobility can support higher transit
- Density greatly aids last mile

Streetcar & BRT

- Routes where rail is not practical/possible
- Neighborhood-scale and frequent loops
- High frequency trips

Transit Oriented Development

- Permanent transit shows committed investment
- Transit creating higher density supports mixed use
- Need for cars + related infrastructure need reduced

A map showing the expansion of transit. It features a central area with a grid of streets. A red line indicates a transit route. A legend in the bottom left corner identifies symbols: Areas of Density Potential (grey rectangle), Commuter Rail Station (red dot), Streetcar Stop (black dot), Bus Stop (yellow dot), 25mi Hub Radius (white circle), and 25mi Radii (grey circle). A scale bar indicates 0.35mi.

Pollinator City

ARCH 7036 -002 / 5051-002

LOCATION: Cincinnati, OH

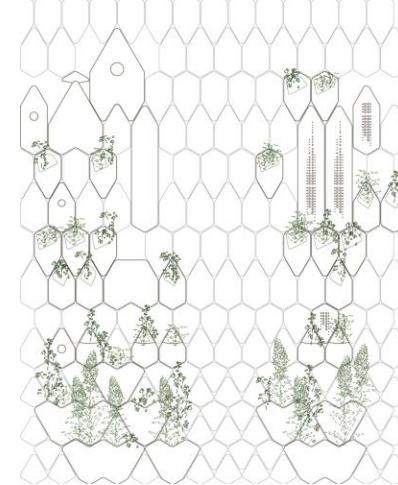
PARTICIPANTS

Professor: Anca Matyiku

Collaborator: Alex Roman Gonzalez, University of Cincinnati Office of Sustainability and the University of Cincinnati Garden

Consultants: Patrick Guerra, Stevie Famulari, Brian Grubb, Sangyong Cho

Design-build + research student Team: Varun Bhimanpally, Matthew Davis, Prajakta Gangapurkar, Justin Hamilton, Patrick Leesman, Jacob Mackin, Julio Martinez, Simon Needham, Kaylee Pugh, Hilda Rivera, Juvita Sajan, Hannah Webster, Megan Welch, Meghana Yelangandula, Isaiah Zuercher



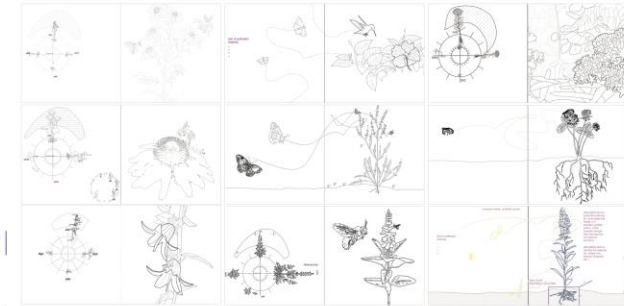
PROJECT DESCRIPTION

The Pollinator City project is a design-based response to the crisis facing pollinator species that are essential to our ecosystems. It consists of an educational coloring book and a Pollinator Wall, a modular-based system of “living cell” units that explores the wilding of the humble masonry wall as a thickened living cell, and its potential to sustain an ecosystem of insects and plants.

INTERDIS.

POLLINATOR CITY - OUTCOMES

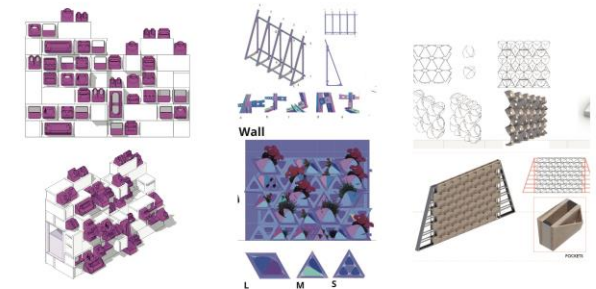
COLORING BOOK (IN PROGRESS) compiles our team research



- inc empower action
- test efficacy of the living cell pollinator wall to operate as habitat for pollinator species - do the birds and the bees

POLLINATOR CITY - OUTCOMES

DESIGN & BUILD LIVING CELL POLLINATOR WALL (PRELIMINARY IDEAS)



ANCA MATYIKU // MATYIKAI@UCMAILUC.EDU

Bosses

Fashion Design | Entrepreneurship Study

LOCATION: Cincinnati, OH

PARTICIPANTS

Students: Clare Wilker, Rafa Shomburgk,
Nick Murphy

PROJECT DESCRIPTION

Boess is driven by our mission to create a space for those who feel lost between their need to escape into nature and their need to connect with humanity.

Challenging the societal pressure to choose between both worlds, we take pride in our position, seeing the internal conflict not as a problem but as an opportunity to find new belonging.

Here we create a lifestyle full of adventure, in all environments from deep in the backcountry to downtown streets.

Our dream is a vibrant community joined in embracing the duality, and creating a community rooted in nature and deeply connecting with others.



SOD

Community Building Blocks

Architecture Studio 4 | ARCH4001 | Peter Yi | Fall 2023

LOCATION: Cincinnati, OH

PARTICIPANTS

Students: Seth Aridano, Jean-Luc Baudeloque

PROJECT DESCRIPTION

As of late 2023, Cincinnati became the first city in Ohio to legalize the use of an Accessory Dwelling Unit, ADU. This zoning policy innovation provided an opportunity to reshape the city's urban fabric and construction techniques. Community Building Blocks is a bold reimagining of suburban living, transforming traditional single-family lots into a neighborhood that embraces sustainability, efficiency, and fosters a strong sense of community.

SAID

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Sustainability
Award



Shaping the Future: 3D Printing for Affordable and Climate-Resilient Housing in Cincinnati

PLAN7009 | Capstone | Professor Leah Hollstein and Prof Rainer Vom Hofe

LOCATION: Cincinnati, OH

PARTICIPANTS

Students: Simon Donkoh

Partners: College Hill CURC / Cincinnati Parks

PROJECT DESCRIPTION

Responding to Cincinnati's housing challenges and climate concerns, our project utilizes 3D printing technology to create affordable and climate-resilient housing solutions. We leverage innovative design approaches and alternative natural construction materials to provide sustainable housing options in Cincinnati by 2050.

SOP



LOCATION: Cincinnati, OH

Students: *Erica Frost*

I noticed issues of wear and tear in the marching band uniforms. This drove me to want to design a new uniform for the program. Now we wear new uniforms that I designed the concept for.



Cincy Composts

INDL 42253 | Professor Brigid O'Kane

LOCATION: Cincinnati, OH
PARTICIPANTS
Students: *Caroline McCarthy*

PROJECT DESCRIPTION

Cincy composts aims to increase sustainability at the University of Cincinnati. This project includes a proposal to increase food waste diversion that could handle all pre and post consumer food waste across campus. The system includes a bucket collection system, drop-off kiosks, and an integrated app that provides information, tracks composting goals, and allows members to connect with others in the community.

System Design



SOD

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Best in School
of Design
Undergraduate



Virtual reality studio for collegiate industrial design education

DSGN 8002 | Thesis | Chair: Steve Doehler | Committee: Ming Tang

LOCATION: Cincinnati, OH

PARTICIPANTS

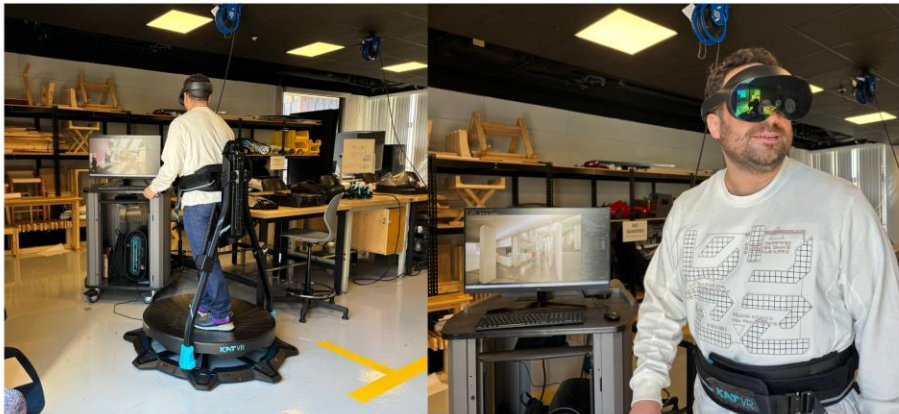
Students: Rashid Sadki

PROJECT DESCRIPTION

A Remote Immersive Virtual Reality Industrial Design educational system has the potential to foster accessibility and sustainability, revolutionizing how students interact with technology and each other. The evolution from pen and paper to digital interfaces and now to I-VR signifies a return to hands-on learning, enhancing empathy and connection. This approach not only democratizes education globally but also integrates existing technology into the learning experience which is not currently in use, reducing reliance on traditional screen-based communication.

SOD

internal development



copyright ming tang

university of cincinnati rashid sadki mdes 2024



Back to the Future!

PLAN 5099 | Senior Capstone

LOCATION: Cincinnati, OH

PARTICIPANTS

Students: *Natalie Kunes*

PROJECT DESCRIPTION

The key to Cincinnati's future is in the past! Back to the Future: exploring methods of food production for Cincinnati in 2050. For centuries humans have been taking nutrients from the earth and giving very little back in return. To avoid going too far down this detrimental path, we need to implement restorative agriculture methods that replenish the earth. By doing so, we give the Cincinnati of 2050 a better future; a future composed of healthy, happy residents who have access to responsibly cultivated food, land that is less susceptible to flooding and landslides, and a population that takes responsibility and stewardship of the natural environment.



CODE 4021 | Design Research Methods | Professor
Muhammad Rahman

LOCATION: **US**

PARTICIPANTS

Students: Cora Stammen, Anna Mullinger

PROJECT DESCRIPTION

Adolescent women ages 13-17 using social media are unaware of how fast fashion negatively affects the environment. They are not provided with resources on how to combat it due to a lack of knowledge and an incentive to learn about the issue. So, we created Monda, an interactive microsite that educates viewers about the dangers of fast fashion and makes them excited to learn more.

monda
anna mullinger & cora stamnen

context

project statement
monda is a microsite that educates the viewer about the dangers of fast fashion and helps to combat it for young women (ages 13-17) who use social media.

problem statement
adolescents (women from ages 13-17) using social media are unaware of how fast fashion negatively affects the environment and are not provided with resources on how to combat it due to a lack of knowledge and an incentive to learn about the issue.

design mandates
-information has to be presented in a quick & efficient way
-content has to be relevant, interesting, and generationally targeted
-the microsite has to be informative and for educational purposes

our solution

generative research

evaluative research

desktop

mobile

check out the prototypes

The Impact of Lead Pipe Replacement on Property Values in Cincinnati, OH

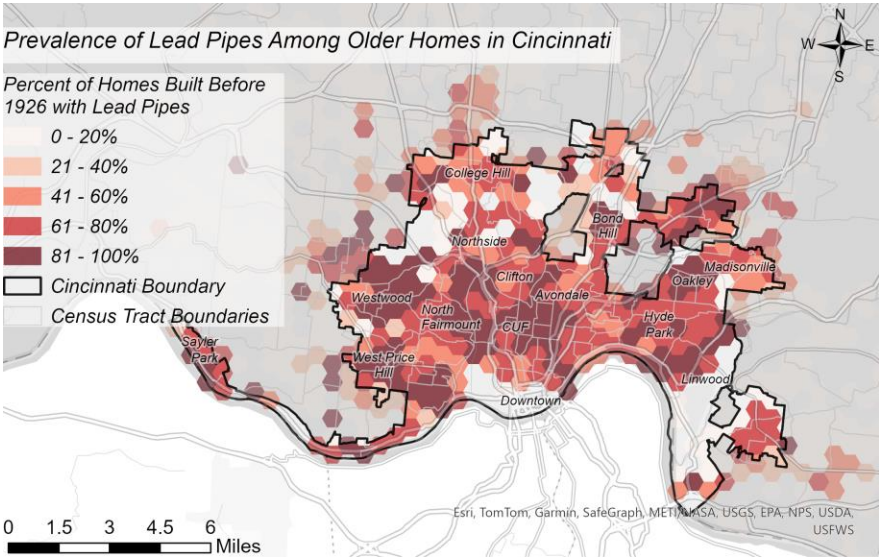
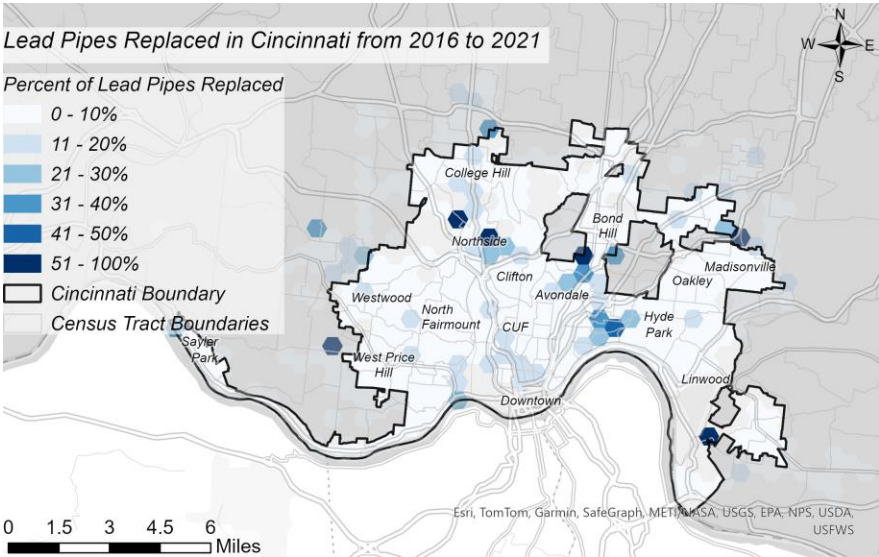
PLAN 7008 | Capstone | Chair: Dr. Rainer vom Hofe | Committee: Dr. Olivier Parent, Dr. Christopher Auffrey

LOCATION: US
PARTICIPANTS
Students: *Xavier Yozwiak*



PROJECT DESCRIPTION

The 36,000 homes in Cincinnati with lead pipes make it possible that the drinking water crisis in Flint, MI could happen in Cincinnati. Despite this threat, only 50 percent of the homeowners contacted by Greater Cincinnati Water Works (GCWW) agree to replace their lead pipes, even though GCWW pays for the entire cost of the replacement. This study found another potential “incentive” for homeowners to replace their lead pipes: properties that had their lead pipes replaced from 2016 to 2021 and had sales before and after replacement (n = 66) saw a 4.6 percent increase in sale price (\$10,600 on average) compared to similar homes (n = 2,230) in the three years after replacement. The study used a difference-in-differences framework and controlled for an extensive list of building and neighborhood characteristics to determine that the lead pipe replacement caused the increase in price for the homes in the study. These results imply that Cincinnati customers value a “lead free” home, and that local and state-level outreach efforts should increase to make the presence of lead pipes widely-known to all homebuyers and residents.



Painting Preschools for a Change

CODE 4021 | Design Research Methods | Professor Muhammad Rahman

LOCATION: Cincinnati, OH

PARTICIPANTS

Students: Sophia Levy, Haley Cole, Taryn Brown, Carol Theetge, Nicole Taylor, James Gibbs, Louisa Wetli, Sophie Hemingway, Aditiya Pradhan, Ayusha Giri

PROJECT DESCRIPTION

At Cincinnati Urban Promise Preschool, a volunteer group painted a vibrant mural on the exterior entrance wall, aiming to uplift an underserved community. Inspired by the transformative potential of education, the mural represents hope and possibility, serving as a beacon of inspiration and community for children and residents alike. Collaborating with a dedicated team, we braved challenges and setbacks, learning firsthand the impact of collective effort and artistic expression in fostering community resilience and creativity. This experience deepened our commitment to community engagement, reaffirming the power of collaborative action to create meaningful change and a more vibrant, inclusive world. The mural stands as a testament, enriching the community with its message of unity and possibility.

INTERDIS.



Hidden Little Corners

DAAPcares | Student Organization

INTERDIS.

LOCATION: University of Cincinnati PARTICIPANTS

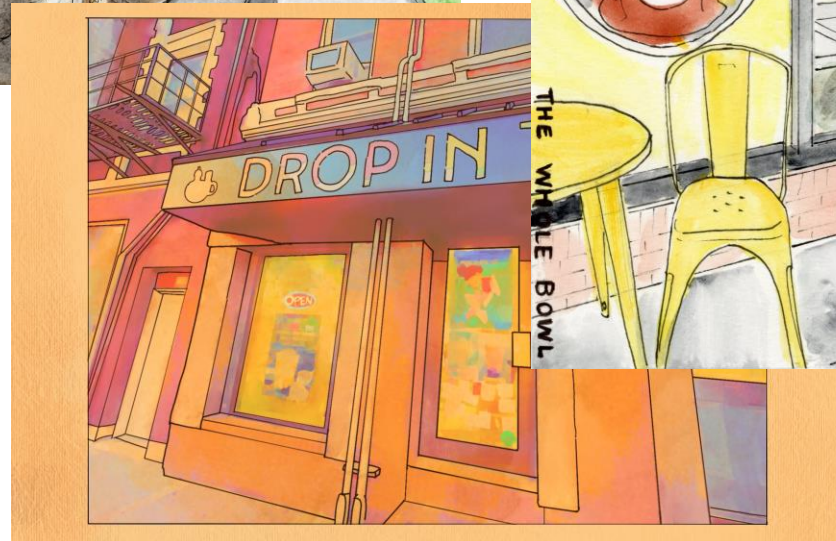
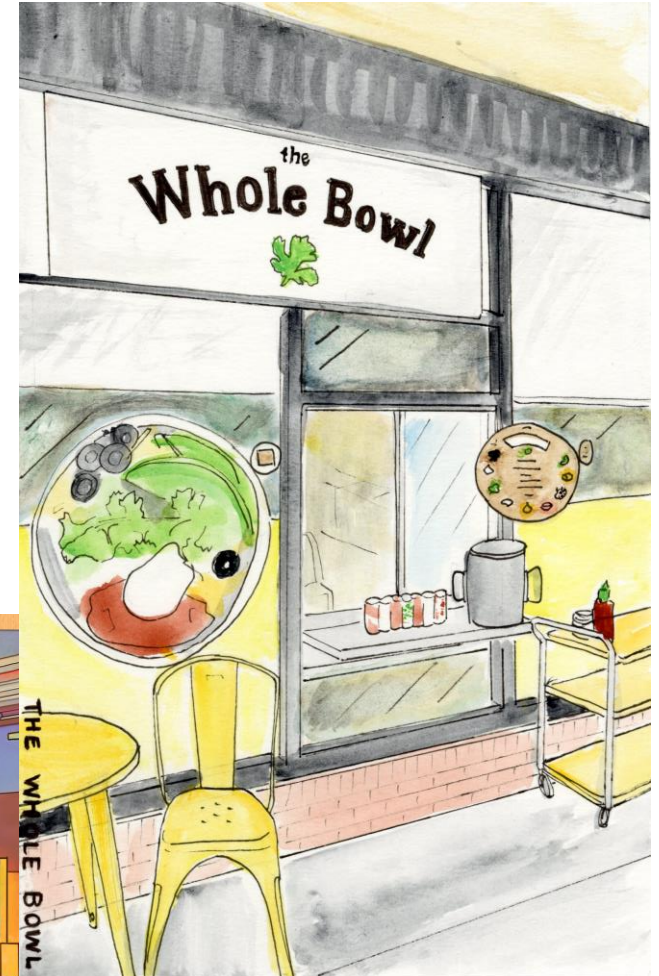
Students: Margaret Dull, Chloe Beckmeyer, Emma Madden, Maddie Lawson, Abby Lawson, Gordon Petrie, Sophie Gartland

PROJECT DESCRIPTION

Hidden Little Corners is a project to bring recognition to underutilized parts of the University of Cincinnati's campus. Most students spend over half their day on or adjacent to UC's campus, but never have taken the time to explore all areas. Our project is assessing UC's campus and highlighting visually the spots that we feel are great for peace of mind.

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Community
Award



Comparative Urban Heat Island Mitigation Framework

DAAPcares | Student Organization

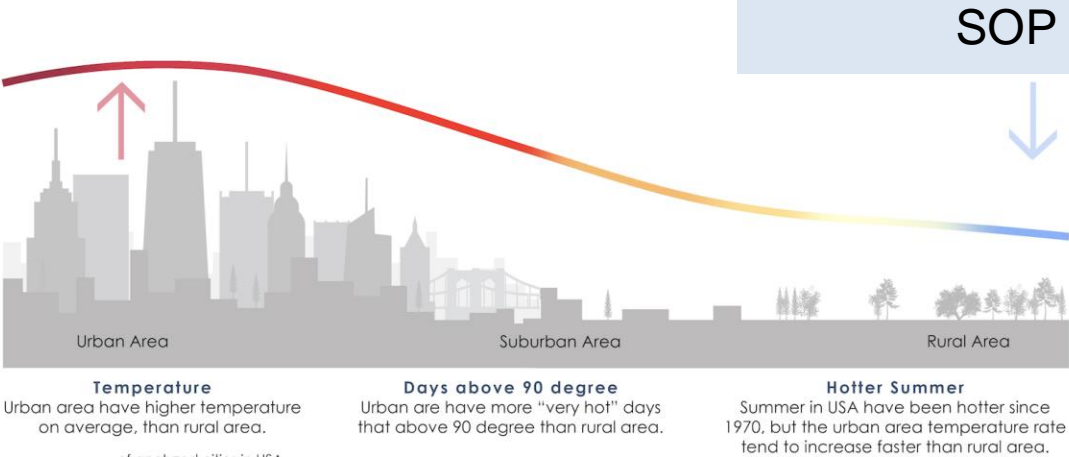
LOCATION: United States (various)

PARTICIPANTS

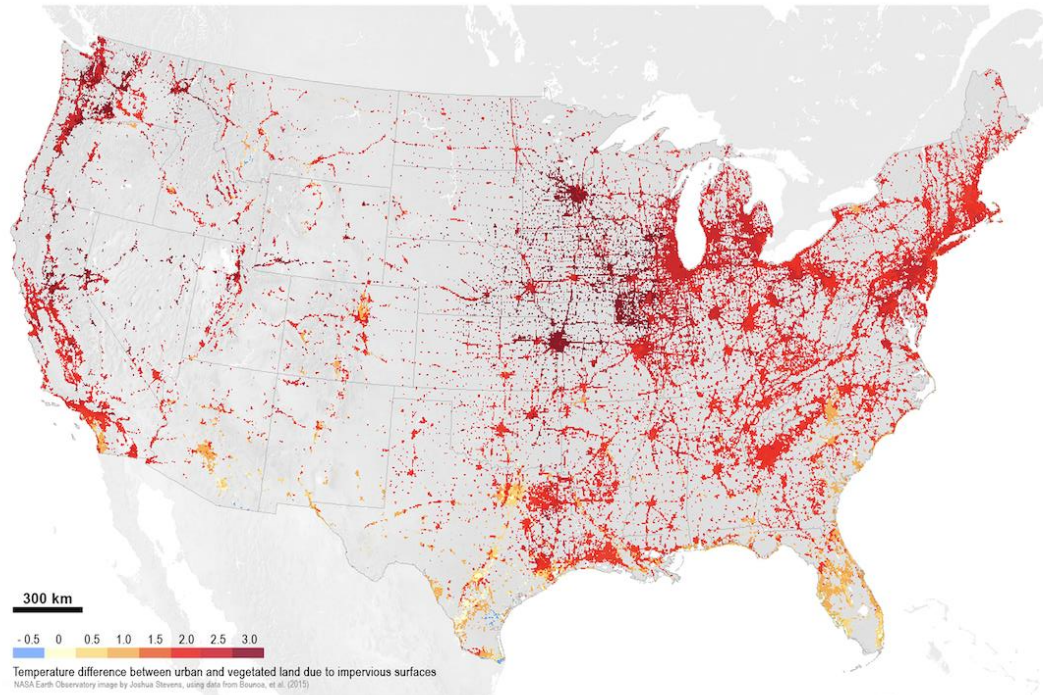
Students: Nur Ayuni Mohd Bohori

PROJECT DESCRIPTION

An onhoing research based study on comparism of Green Infrastructure usage in Urban Heat Island (UHI) Mitigation of existing frameworks and Artificial Intelligence based Frameworks. This study is to compare the ranking of green infrastructure used in several case study Frameworks with the existing policy and how much the Artificial Intelligence study aligns with the current framework.



Literature Review



Above map is showing the the heat distribution that focused on the main city area, highlighting the critical need for UHI mitigation.

Full Inclusive Participation: A Design Process Case Study in Urban Mobility

MDES Thesis | Chair: Professor Heekyoung Jung

LOCATION: Cincinnati, OH

PARTICIPANTS

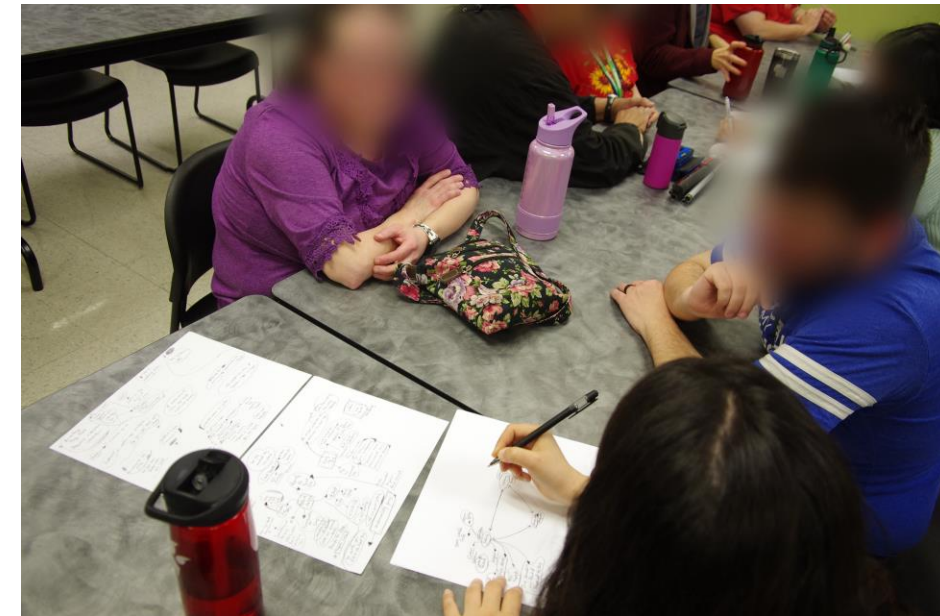
Students: Domagoj Bui

2024
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Best in School
of Design
Graduate

PROJECT DESCRIPTION

This design research project identifies that urban mobility not being inclusive is connected to the design process used not being inclusive, and that inclusive design is not used enough because it is inaccessible to designers and organizations. The project proposes to start with full inclusive participation. A comparative case study was conducted with two groups of design students using a conventional mobility design process, but one equitably and fully together with people with visual impairments. Design students and experts who evaluated solutions conclude that it is a viable option to achieve inclusive urban mobility more easily but with challenges in scaling up.



Mapping Madisonville

PLAN 7006 | Methods of Planning & Physical Analysis
| Professor Leah Hollstein

LOCATION: Madisonville, Cincinnati, OH

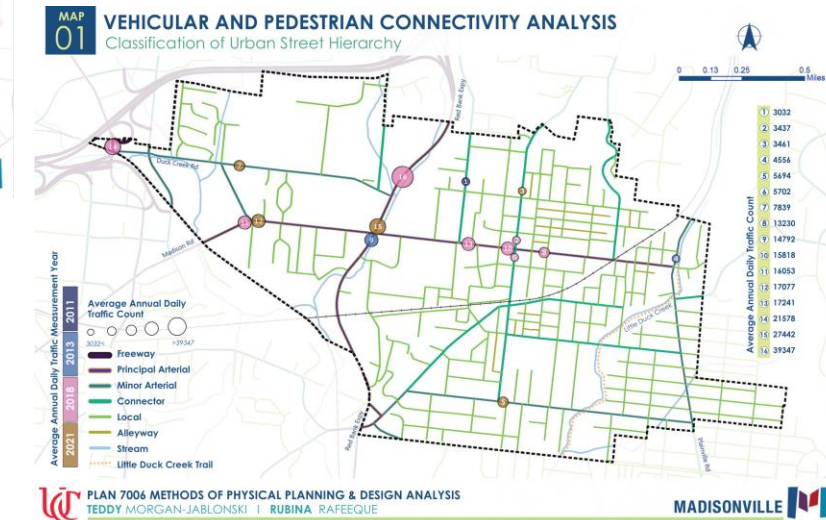
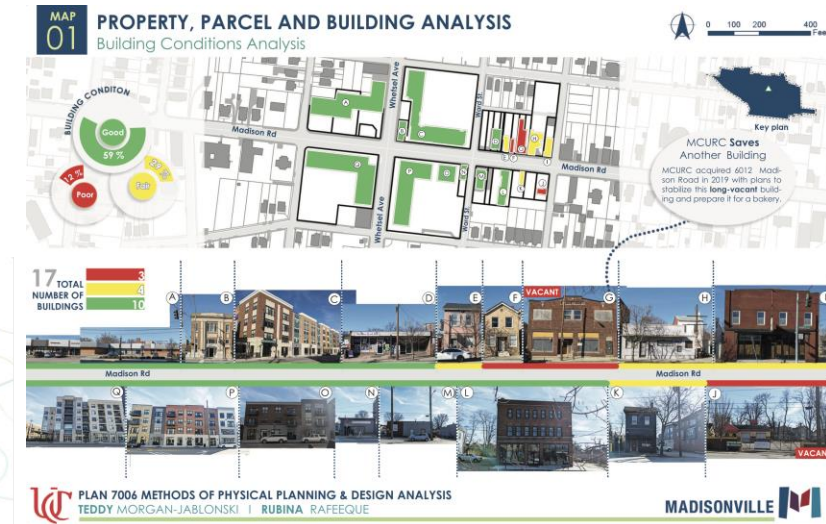
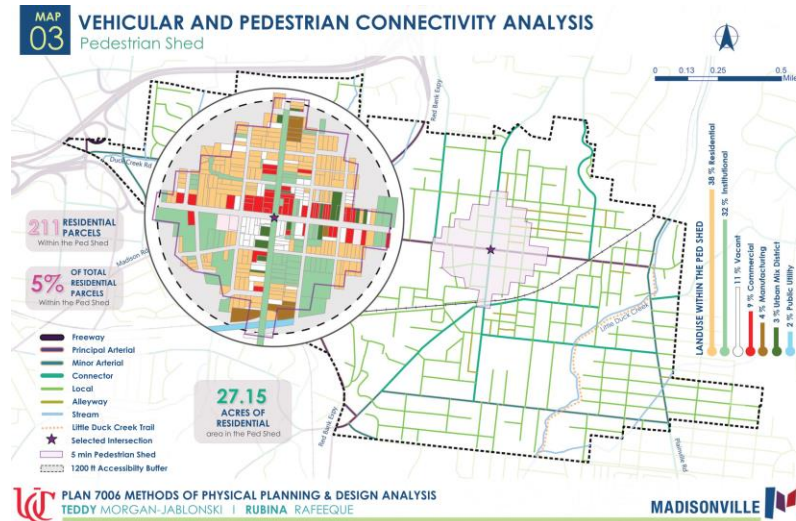
PARTICIPANTS

Students: Rubina Rafeeqe, Teddy Morgan-Jablonski

PROJECT DESCRIPTION

Our project aims to analyze various facets of Madisonville, including history, transportation, topography, soil, and urban development. Through meticulous research and data analysis, we seek to understand the city's evolution and its response to changes over time. Our ultimate goal is to identify opportunities for sustainable improvement and innovation that will positively impact the community's quality of life.

SOP



Art History Outreach Program: Helping Students to Engage with Artworks at First Hand

Independent Collaborative Project

LOCATION: Cincinnati, OH

PARTICIPANTS

Students & Faculty: Arthur Brum, Shepherd Ellis, Riley Haag, Charlotte Ogorek, Christopher Platts, Tegan Recker, Kristopher Reisser, Leah Shannon

PROJECT DESCRIPTION

The Art History Outreach Program offers interactive, audience-centered presentations on Renaissance art and culture (ca. 1400-1700) for students at local public high schools and the Osher Lifelong Learning Institute (OLLI) in Cincinnati. Using centuries-old European prints and illuminated manuscripts from the University of Cincinnati's DAAP Library, these presentations are primarily object-based, so that students can directly examine and physically handle artworks of the fifteenth to seventeenth centuries. The presentations are entirely free of charge to the high schools and OLLI, and they are available for – and tailored to – different sorts of classes, whether art history, fine arts, history, or foreign languages. These presentations are created by UC undergraduate and graduate students under the supervision of a UC faculty member in art history, who also develops and offers presentations.

2024
DAAPcares

Diversity, Equity,
& Inclusion
Award

SOA



Unscripted: Typography for Non-Native Language Acquisition

MDES Thesis | Chair: Professor Renee Seward

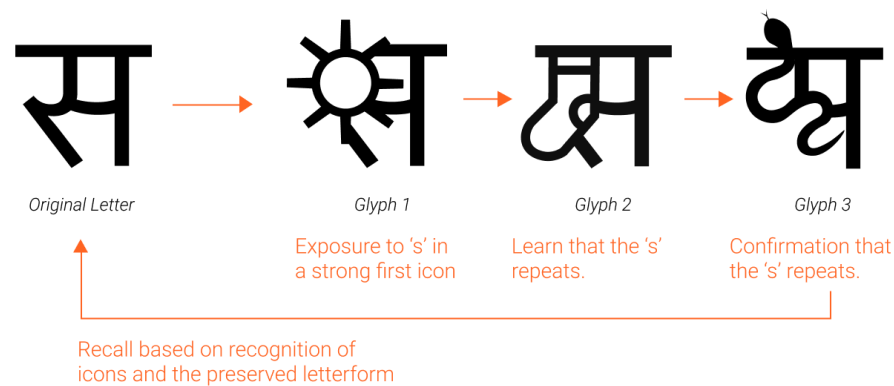
LOCATION: Cincinnati, OH

PARTICIPANTS

Students: Urvi Prabhu

PROJECT DESCRIPTION

Unscripted redefines language education systems by employing typography as a tool to decode letters in a new script. The font uses icons as mnemonics embedded within the letters to provide visual cues in the typeface to familiarize new scripts to English readers. By using the readers' knowledge of one language to familiarize them with an entirely new one, this project explores a novel application of Seward Design's SeeType font to the context of cross-cultural communication through non-native language acquisition.



SOD

Letter (with highlighted similarity)

Icon 1

Icon 2

Icon 3

SeeType (English)

Adaptation to Hindi

क	ट	प	ब	म	ल	स	ह	च	श
C1	T1	P1	B1	M1	L1	S1	H1	CH1	SH1
क	ट	प	ब	म	ल	स	ह	च	श
Cat	Trophy	Pig	Bee	Moon	Ladder	Sun	Hand	Chicken	Shoe
C2	T2	P2	B2	M2	L2	S2	H2	CH2	SH2
क	ट	प	ब	म	ल	स	ह	च	श
Key	Turtle	Penguin	Boat	Mouse	Lion	Sock	Hand	Cherry	Ship
C3	T3	P3	B3	M3	L3	S3	H3	CH3	SH3
क	ट	प	ब	म	ल	स	ह	च	श
Cloud	Toe	Peach	Bag	Muffin	Leg	Snake	Hut	Chart	Shirt
C4	T4	P4	B4	M4	L4	S4	H4	CH4	SH4

covington [re]hatched

ARCH 7005 | Studio | Professor De Peter Yi

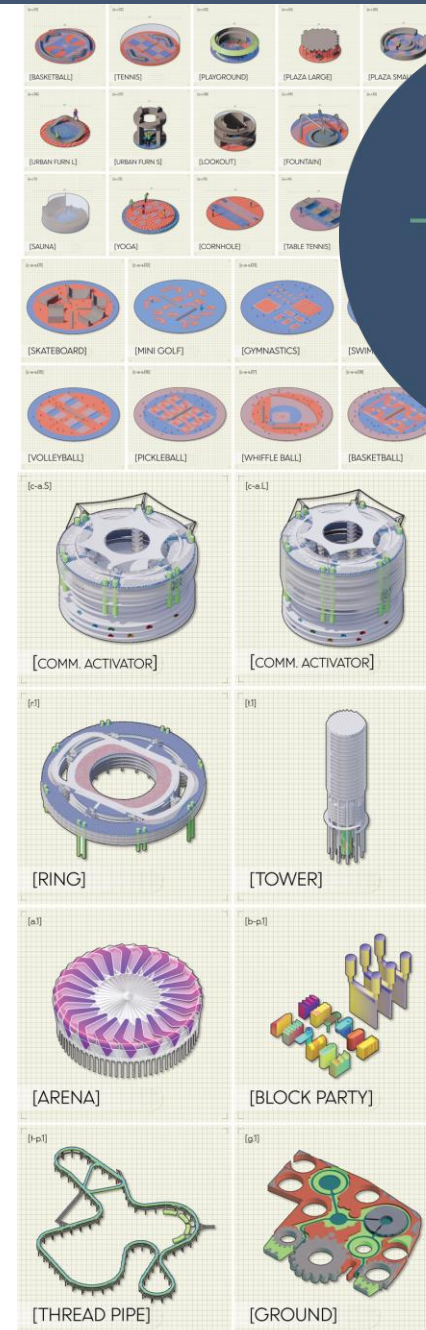
LOCATION: Cincinnati, OH

PARTICIPANTS

Students: Simon Needham, Jacob Mackin, Isaiah Zuercher

PROJECT DESCRIPTION

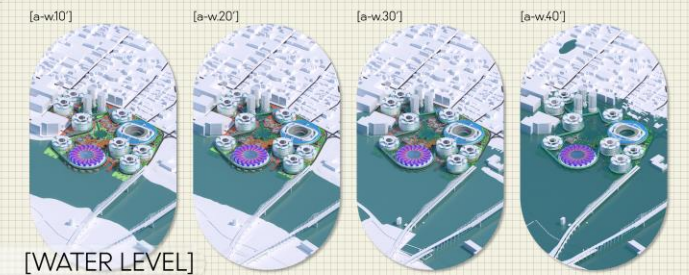
This proposal reimagines 23 acres of the levee-impeded Covington riverfront as an athletic campus that combines recreation with bright, exciting environmental graphics. Prominently spread across the site are large circular buildings lifted above ground level, protecting the buildings from flooding and allowing inhabitants to walk directly into the courtyards that each contain various sport courts and fields. Atop each of these buildings are public spaces that provide arena-like seating and elevated vantage points to spectate activities across the site. We developed a vibrant interstitial space: a field of ground surface hatches behaving as a system of colorful porous surfaces to address the stormwater and flooding that the site endures. The monotonous rectangular city blocks of the immediate urban context are exchanged for circular forms, creating a more open, wandering, and varied pedestrian experience as a relief from the rectangular city grid.



2024
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Best in School of
Architecture &
Interior Design
Graduate

SAID



DAAPcares: Activities through the Year

DAAPCARES

Wednesday
15
5:30 - 7

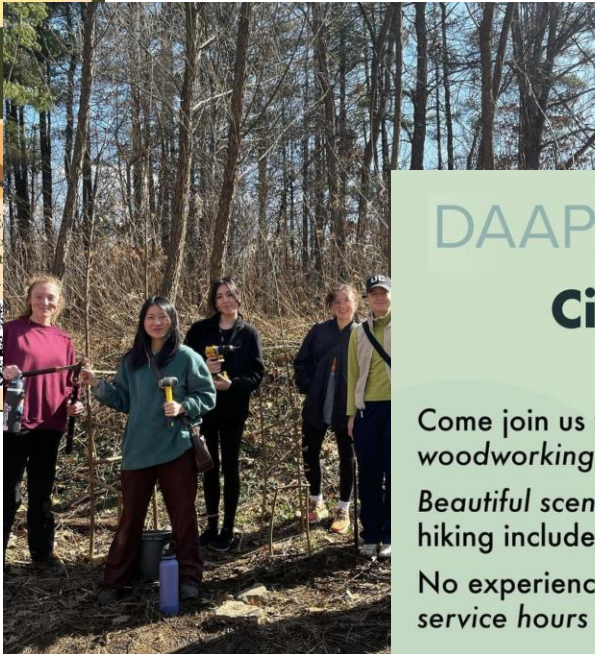
**PARKS SERVICE
VOLUNTEER DAY**

Join us as for a service hour opportunity at E...
Park as we team up with Cincinnati's Park
Department for a design charrette and brainstorming
session for upcoming park's projects!

**IF INTERESTED, SCAN
HERE TO SIGN UP!**



Past events



DAAPcares & Cincy Nature Center service event

Come join us for a willow tree
woodworking session!

*Beautiful scenery and minimal
hiking included!*

No experience needed and
service hours provided.



Message Margaret on GroupMe
via QR code if interested or have
any questions!



**Friday, February 23, 12-2pm
at Cincy Nature Center in Milford, OH**

Keep Cincinnati Beautiful

mural work service event

details below →

Fri. April 12 | 1-4pm
Dyer Playground
2124 Freeman Avenue
Text 513.439.0775
if interested

be ready to... ↘

paint & get a lil' messy
have fun
serve your community

DAAPcares

Upcoming event

DAAR
cares