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Architecture Art Planning

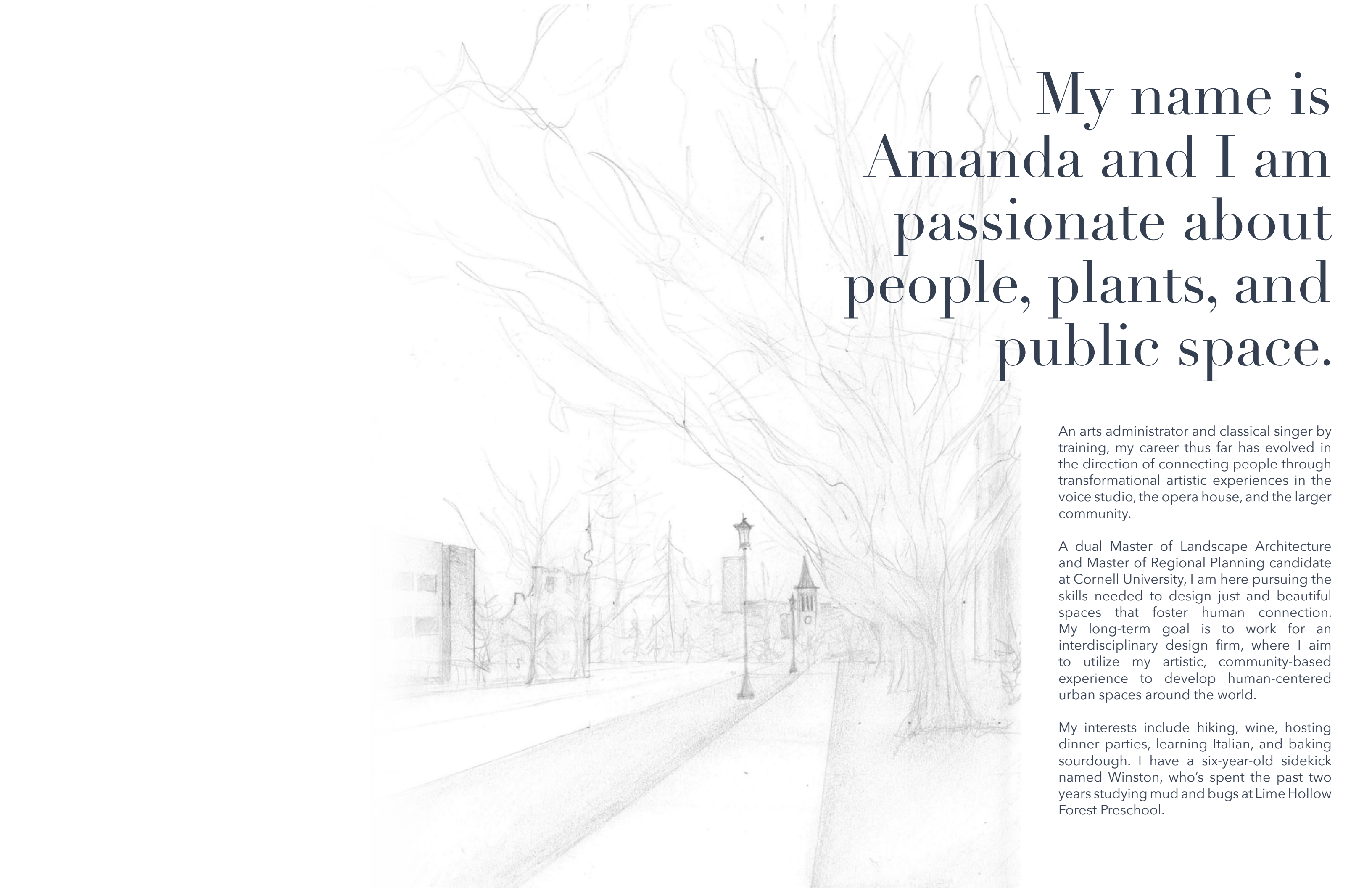
Cornell **CALS**

College of Agriculture  
and Life Sciences

**Master of Landscape Architecture '25**  
**Master of Regional Planning '25**  
acb327@cornell.edu

# Amanda Carmen Bower



A pencil sketch of a street scene. The foreground shows a sidewalk and a street lamp. In the background, there are trees, buildings, and a street lamp. The drawing is done in a light, sketchy style.

# My name is Amanda and I am passionate about people, plants, and public space.

An arts administrator and classical singer by training, my career thus far has evolved in the direction of connecting people through transformational artistic experiences in the voice studio, the opera house, and the larger community.

A dual Master of Landscape Architecture and Master of Regional Planning candidate at Cornell University, I am here pursuing the skills needed to design just and beautiful spaces that foster human connection. My long-term goal is to work for an interdisciplinary design firm, where I aim to utilize my artistic, community-based experience to develop human-centered urban spaces around the world.

My interests include hiking, wine, hosting dinner parties, learning Italian, and baking sourdough. I have a six-year-old sidekick named Winston, who's spent the past two years studying mud and bugs at Lime Hollow Forest Preschool.





Tulip Poplar  
*Liriodendron tulipifera*

Scarlet Oak  
*Quercus coccinea*

Eastern Sycamore  
*Platanus occidentalis*

Sassafras  
*Sassafras albidum*

American Persimmon  
*Diospyros virginiana*

Red Oak  
*Quercus rubra*

American Elm  
*Ulmus americana 'New Horizon'*

Serviceberry  
*Amelanchier spp.*

Aromatic Aster  
*Symphotrichum oblongifolium*



# Gordon Park

2023 Created as part of a larger effort to understand the historic relationship between people, trees, and industry in Cleveland, this timeline juxtaposes over two centuries of population and tree canopy data with historic events and site-specific images.

The narrative that emerged from this particular portion of our site analysis was crucial in the development of our initial concept and informed many elements of our final design.

// LA 6010 Cleveland Studio  
Mitch Glass

**Illustrator, Photoshop, InDesign**

*previous page:  
proposed edge conditions  
along new meadow planting  
and geological (stone) ribbon at  
Gordon Park South*







1913  
Catastrophic flood  
damages canals  
throughout  
Ohio

1950  
Peak population  
= 914,808

1970  
U.S. Environmental Protection  
Agency (EPA) established

1980  
Superfund Act

1969  
Cuyahoga River  
fire sparks national  
environmental  
protection movement

1965  
Water  
Pollution  
Control  
Act

1972  
Clean Water Act

1979  
Ohio Urban Forestry  
Program created by Ohio DNR

1974  
Drinking Water Act

1978  
Cleveland Lakefront State Park  
established by Ohio DNR

1957  
Federal Aid Highway Act  
establishes Interstate 90

1940  
Cleveland Memorial Shoreway  
expands through Gordon Park  
to E. 140th St in Euclid

1977  
Lakewood section of  
Gordon Park leased  
to Ohio DNR

1990s  
Downtown  
revitalization

2000s  
Forestland study

### THE JEWISH MIGRATION

1914  
Ohio Conservancy Act permits  
formation of watershed districts

1917  
Cleveland  
Metropark founded

1912  
Typhoid  
outbreak

1910

1920

1930

1940

1950

1960

1970

1980

1990

2000

2010

2020

2030

1911  
Chertoli  
ditch emerges  
in Cuyahoga County



GORDON PARK  
CLEVELAND, OHIO  
GENERAL PLAN OF DEVELOPMENT





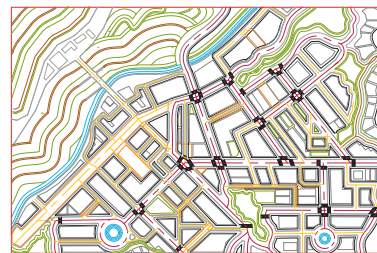
# imagine a city ...

2021

A hypothetical 22-acre urban center, *Limoncello* is the culmination of a semester's exploration of graphic communication theory and sustainable urban design.

// CRP 5861 Graphic Communication  
Isa Fernandez & Zac Boggs

Hand sketch, AutoCAD, SketchUp,  
Photoshop, Illustrator, InDesign





# Limoncello

Designed by Amanda Carmen Bower

Inspired by the historic mountain villages of the Italian Riviera, Limoncello is a vibrant, walkable community nestled in the foothills of the Apennines, 10 kilometers east of the Ligurian Sea. Renowned for its bustling riverbank, lush orchards, and picturesque vineyards, Limoncello transforms the lemons of life into the sweet nectar of connection.



**VIBRANT** Teeming with opportunity and adventure, this historic city has been a dynamic center of innovation in the region since it was first settled in the middle ages, and it continues to attract creative talent today.



**CONNECTED** Knit together with a series of pedestrian streets, piazzas, parks, and trails, Limoncello was built for walking. Residents report a great deal of satisfaction with the neighborly atmosphere of the city. Retail and offices are scattered throughout, predominantly in the form of mixed use and mixed income development, while low density residential is limited to the outer hills. The social landscape of the city is rich and provides countless opportunities for human connection.



**ROOTED** Urban agroforestry has sustained the economy of Limoncello for generations. Citrus, olive oil, wine, limoncello, and spirits are the primary exports.



**HEALTHY** Farmers and local artisans come from the surrounding towns to sell produce at the bustling riverside market 3 days per week.



**RESTORATIVE** Tucked in among old growth forest, the city was built to complement the landscape, and offers countless green spaces to rest, hike, sail, or stroll through the orchard on a foggy morning.



This hypothetical 22 acre site was designed by Amanda Carmen Bower as an exercise for CRP 5861: Introduction to Planning Graphics taught by Professors Zac Boggs & Isabel Fernández at Cornell University in the Fall of 2021. This board is the culmination of a semester's exploration of graphic communication theory, the study of sustainable/resilient development projects and how they are visually communicated to the general public, and the application of the following industry standard computer programs learned: AutoCAD, SketchUp, Photoshop, Illustrator and InDesign.



# Bearberry

*Arctostaphylos uva-ursi* Ericaceae

KINNIKINNICK, HOG-CRANBERRY,  
SANDBERRY, MEALBERRY, MOUNTAIN-BOX,  
FOX-PLUM, BARREN MYRTLE



Lush, creeping evergreen groundcover prized for its glossy green leaves, showy red fruit, elegant spring flowers, and persistent winter interest, bearberry has a long history of medicinal, cultural, and ceremonial use around the world.

**CLASSIFICATION:** woody evergreen shrub

**DISTRIBUTION:** a circumboreal species, the native range of bearberry stretches from Europe across Asia and into North America, where it is found throughout the east coast as far south as Virginia, and west through the Rocky Mountains and northern California.

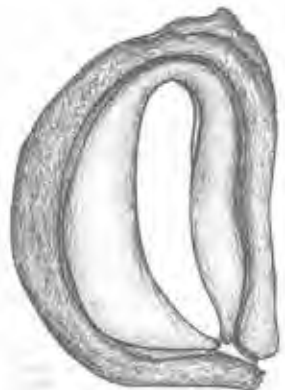
**USDA HARDINESS ZONE:** 2-8; as hardiness zones continue to shift, heat tolerance may become an issue for bearberry in zones 7-8

**BLOOM TIME:** Flowers bloom from April-May; fleshy, red drupes emerge between late July and September and persist throughout winter.

**GROWTH HABIT:** Glossy, leathery leaves spread to form dense, broad, clumping mats. Though it rarely exceeds 6" in height, trailing stems can theoretically spread indefinitely through layering.



Arctostaphylos uva-ursi (L.) Poir.  
Illustration: [unreadable]  
Photo: [unreadable]



**FUNGAL PATHOGENS AND/OR DISEASES:** *Phytophthora ramorum* (sudden oak death), black mildew, leaf galls, leaf rust

**PROPAGATION METHODS:** seed, softwood cuttings, pre-rooted stem cuttings, layering

**SEED / PLANT AVAILABILITY:** while seed is relatively easy to find, it can be expensive and difficult to grow. Between challenging scarification and requirements and high plant mortality rates, access to plant material is surprisingly limited - even among native plant nurseries.

**HEIGHT:** 6-12"

**SPREAD:** 2-4' typ.

**GROWTH RATE:** slow

**SOIL TYPE:** dry, sandy, coarse, infertile; not recommended for clay

**SOIL pH:** acid to neutral

**EXPOSURE:** full sun, part shade

**MOISTURE:** soil must be well-drained to dry; does not tolerate moist soil

**LARVAL HOST:**

*Callophrys polia* (Hoary Elfin Butterfly),  
*Callophrys augustinus* (Brown Elfin Butterfly),  
& *Boloria freija* (Freija Fritillary Butterfly)

**TOLERATES:** extreme cold, drought, salt spray; sandy, acidic, infertile, rocky soils.

## SUB-SPECIES

- Forma adenotricha* - Rocky Mountains
- Forma coactilis* - present on both coasts; most common form in New England, Ohio, and the Appalachian Mountains
- Forma longipilosa* - rare; found on both coasts
- Forma stipitata* - Rocky Mountains and far west
- Forma uva-ursi* - north to the Arctic and through Eurasia

## KUHLER PLANT ASSOCIATIONS

- K005 Mixed conifer forest
- K011 Western ponderosa forest
- K012 Douglas-fir forest
- K013 Cedar - hemlock - pine forest
- K014 Grand fir - Douglas-fir forest
- K015 Western spruce - fir forest
- K016 Eastern ponderosa forest
- K017 Black Hills pine forest
- K018 Pine - Douglas-fir forest
- K019 Arizona pine forest
- K020 Spruce - fir - Douglas-fir forest
- K021 Southwestern spruce - fir forest
- K022 Great Basin pine forest
- K026 Oregon oakwoods
- K037 Mountain mahogany - oak scrub
- K050 Fescue - wheatgrass
- K052 Alpine meadows and barren
- K056 Wheatgrass - needlegrass shrubsteppe
- K063 Foothills prairie
- K064 Grama - needlegrass - wheatgrass
- K066 Wheatgrass - needlegrass
- K067 Wheatgrass - bluestem - needlegrass
- K081 Oak savanna
- K093 Great Lakes spruce - fir forest
- K095 Great Lakes pine forest
- K110 Northeastern oak - pine forest



3-11" leaves are alternate, simple, obovate to obovate-oblong

lobed, gamopetalous

elegantly nodding, pentamerous flowers, predominantly white with soft pink edges



**EXTERNAL PAIN**  
leaves (poultice)  
Cheyenne

**ITCHING, SORES, CUTS, RASHES**  
leaves (infusion)  
Raramuri

**HEADACHE**  
leaves (smoke)  
Ojibwa

**SORE EYES**  
leaves (poultice)  
Cheyenne

**SMOKING MIXTURE**  
leaves (smoke)  
Algonquin  
Coast Salish  
Haida  
Kwakwaka'wakw  
Nuu-chah-nulth  
Nuxalk  
Tsimshian

**MOUTHWASH for SORE GUMS, CANKERS**  
leaves (infusion)  
Raramuri

**BACK PAIN**  
entire plant (infusion)  
Cheyenne

**MISCARRIAGE PREVENTION & POSTPARTUM RECOVERY**  
stems (decoction)  
Cree

**URINARY TRACT INFECTIONS**  
leaves (infusion)  
Celts  
Chinese  
Gael  
Raramuri  
Romans

**HEALTH TONIC**  
leaves (tea)  
Russia

**CEREMONIAL EMETIC**  
leaves (tea)  
Navajo

**SLOW MENSTRUAL BLEEDING**  
roots (decoction)  
Cree



# non-timber forest products

2023 *Arctostaphylos uva-ursi* crop fact sheet (left), *Lentinula edodes* fact sheet (right).

Built on a foundation of forest ecology, this agroforestry practicum provided a comprehensive overview of NTFP ecology, planning, and management, as well as hands-on experience with the assessment, design, and implementation of environmentally sustainable forest farming systems.

// NTRES 6940 Agroforestry in Practice  
Ken Mudge, Carter Chad Cully,  
Steve Morreale, Tom Whitlow

Hand sketch, GIS, Illustrator, InDesign

## Shiitake

*Lentinula edodes* Marasmiaceae

MONKEY'S HEAD, YAMBU (SHITAKE) (JAPANESE),  
FOUR MOUNTAIN PEDESTAL MUSHROOM (CN), BEAR'S HEAD,  
BEANPOD (THEROPELUS)



The fruiting bodies of *Lentinula edodes* consist of tan-brown umbrella-shaped caps with edges that roll inwards at the cap's bottom towards a creamy white stem that can turn brown as the mushroom grows larger.

**NATIVE RANGE:** Native to East and Southeast Asia, most commonly in Japan and China. Shiitake grows in warm-cool, moist climates (but not wet ones) in its native range.

**USDA HARDINESS ZONE:** 3-8. Optimal growing temperature range is 45F to 85F, depending on cultivar. Logs can freeze but, ideally, are protected from frost. There are great shares of shiitake in the Northeast, especially here in the Finger Lakes region.

**HABITAT:** Wet forest floors in South East Asia. Potentially introduced and now growing wild in other places around the world, including the US. Shiitakes like humid, wet conditions.

**FRUITING SEASON:** Shiitake can be grown reliably in New York on logs in woodlands from June - early winter. Log species on which to grow and find them include Oak, Sugar Maple, Beech, Birch, Chestnut, Sweetgum, and Hornbeam, among others. Only log shiitake can be reliably cultivated outdoors as a commercial crop, while other mushroom species can sometimes offer supplemental income when they fruit.

**LOOK-ALIKES:** *Galerina* mushrooms, which are poisonous, are also found on decaying wood. Compared to shiitake, *Galerina* are smaller, have no cap ornament, a ring under the cap, and a brown spore print (vs. white spore print in shiitake).

**USE:** Shiitake is eaten in various forms (fresh, dried) worldwide and is highly prized in various Asian cuisines. Shiitake has a savory, meat-like taste, and interestingly, contains many of the same amino acids as meat.

**Habit:** Growing on decaying logs, with brown fruiting bodies emerging in favorable conditions.

**Cap:** 2-6" (5-15 cm) wide; height is typically anywhere from 2-4" (5-8 cm) tall

**Gills:** Gills below the cap are a creamy white.

**Stem:** Creamy white; can turn brown as the mushrooms grow larger.

**Flesh:** Firm, velvety texture; color options include white, cream, yellow, blue, brownish, pink, or dark gray.

**Spore print:** White

convex, umbrella-shaped cap

gills on hymenium

hymenium is free

cap margin rolls down and inward

stipe is bare

### MEDICINAL USE:

Shiitake has great medicinal properties and is highly sought after for such. Shiitake is used in tinctures, homeopathic products, and Chinese medicine. Anti-cancer properties of shiitake include the polysaccharide, lentinan. Lentinan helps fight tumors by activating the immune system.

### GROWTH RATE:

Temperature-dependent. Mycelium takes several months to establish itself in the growing medium, after which fruiting can occur.

### PREFERRED MEDIUM:

Dead wood of various broadleaf trees. Commercially, certain tree wood have higher yields - see propagation methods / Tree log species.

### YIELD:

Shiitakes have proven to be among the most consistent and viable for small farms in the Northeast. Data from past research indicates that, over three seasons, a 1,000-log operation would cost \$4,740 to establish and would yield 1,040 pounds of mushrooms annually and could generate \$12,480 of income for the farmer each year. This rate can be perpetually sustained from year four onward and would qualify a producer for agricultural exemption in New York.

### CULTURE / SPORE AVAILABILITY:

Shiitake spores are readily available from several US suppliers at both small and larger scale quantities. Suppliers include: NorthSpore, Field and Forest Products, Fungi Farm and Cascadia Mushrooms.

### PESTS/PATHOGENS:

Shiitake mushrooms have a host of pests/pathogens. Check out this source for how to deal with some of these pests: <https://forest-farming.extension.org/pests-affecting-shiitake-mushrooms/>

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

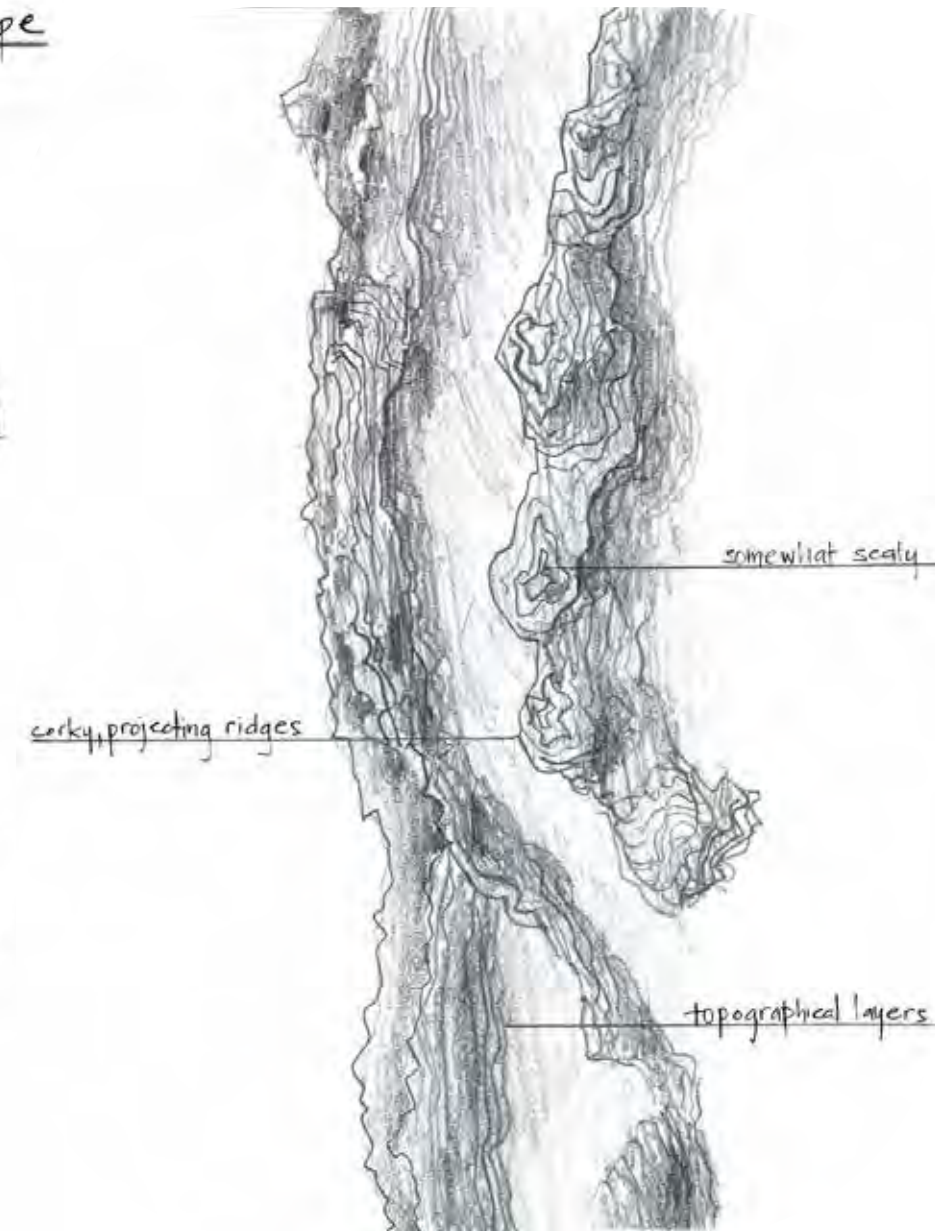
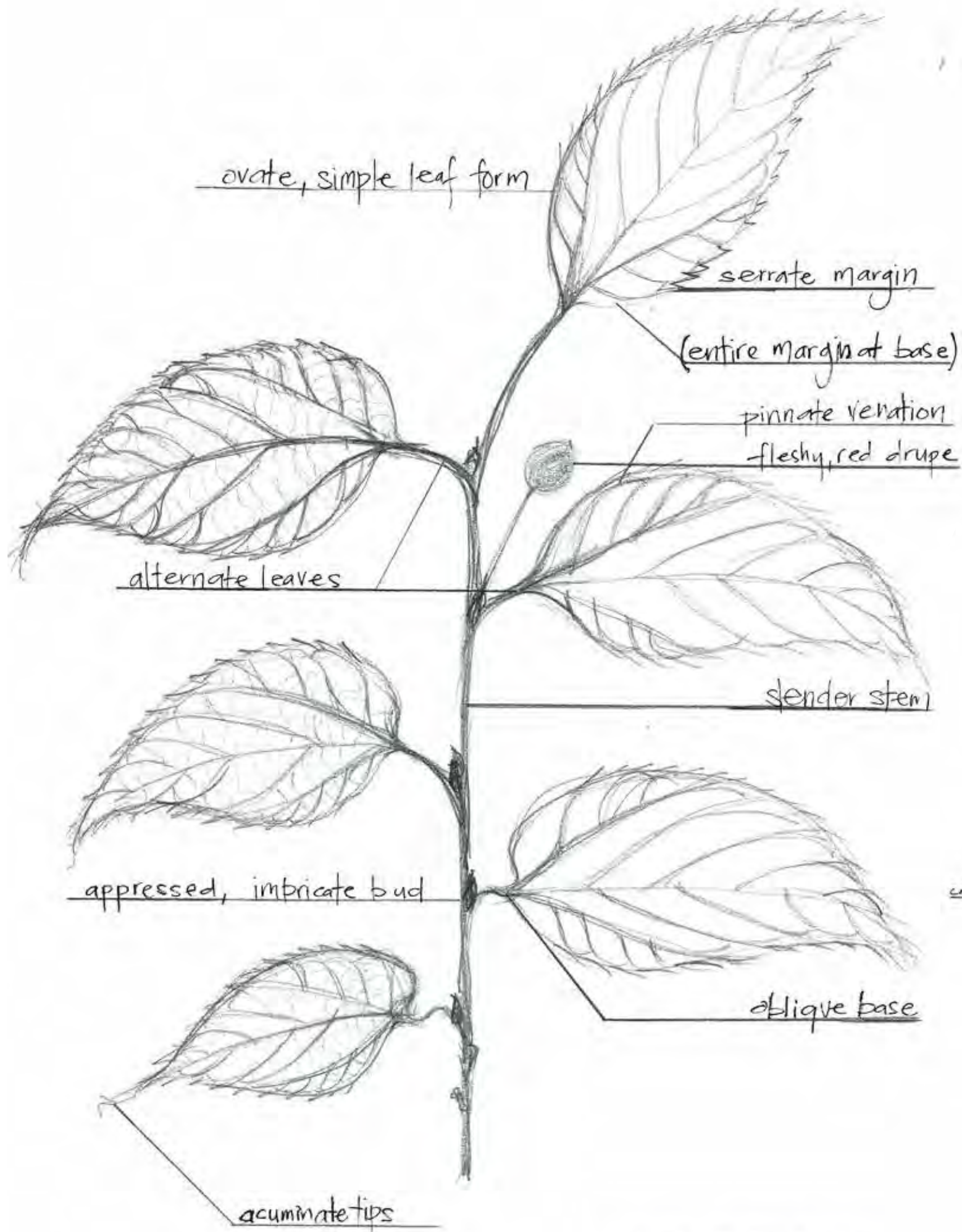


# botanical sketches

2022 *Celtis occidentalis* (left) Semester-long investigation into the morphology of a single woody plant species. Seasonal Color Diagram (right) Proposed plant material for Kendal at Ithaca.

// LA 5910 Woody Plants: Creating the Urban Eden  
Jamie Vanucchi

**Hand Sketch, Procreate, Photoshop, Illustrator, InDesign**





# Seasonal Color

**Autumn Magic Black Chokeberry**  
*Aronia melanocarpa 'Autumn Magic'*

**Seersucker Sedge**  
*Carex plantaginea*

**Smokebush**  
*Cotinus coggygria 'Royal Purple'*

**Panicle Hydrangea**  
*Hydrangea paniculata*

**White Wedding Panicle Hydrangea**  
*Hydrangea paniculata 'Leopold'*

**Vanilla Strawberry Panicle Hydrangea**  
*Hydrangea paniculata 'Renhy'*

**Shrubby St. Johnswort**  
*Hypericum prolificum*

**Southern Gentleman Winterberry**  
*Ilex verticillata 'Southern Gentleman'*

**Sunset Winterberry**  
*Ilex verticillata 'Sunset'*

**Wild Lupine**  
*Lupinus perennis*

**Raspberry Wine Bee Balm**  
*Monarda 'Raspberry Wine'*

**Bayberry**  
*Morella pennsylvanica*

**Blue Spire Russian Sage**  
*Perovskia atriplicifolia 'Blue Spire'*

**Summer Wine Ninebark**  
*Physocarpus opulifolius 'Summer Wine'*

**Fragrant Sumac**  
*Rhus aromatica*

**Pussy Willow**  
*Salix discolor*

**Rosemary Willow**  
*Salix eleagnos*

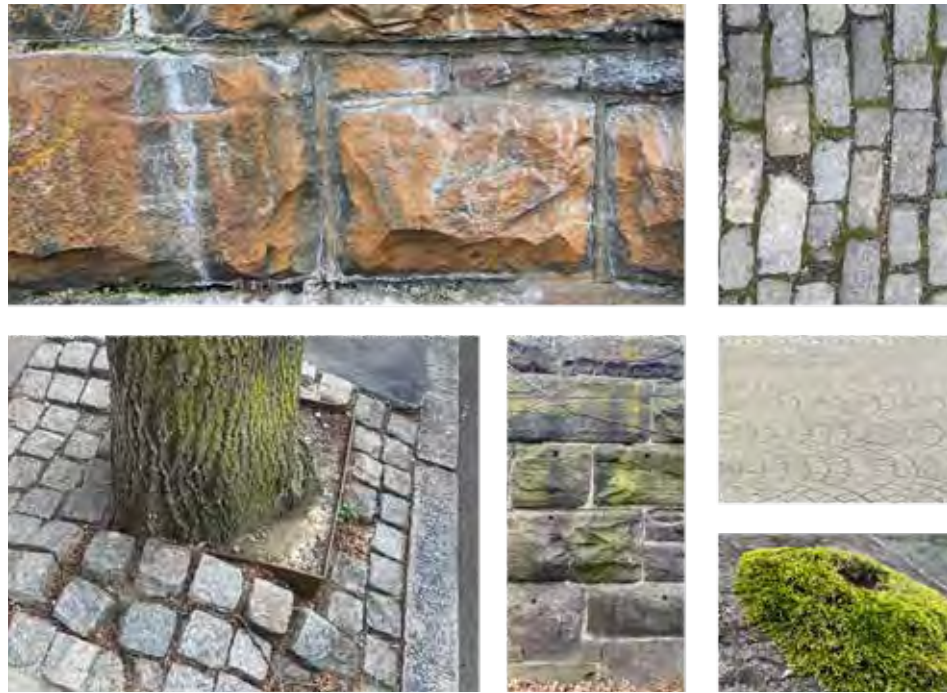
**Armando Creeping Silver Willow**  
*Salix repens 'Armando'*

**Heavy Metal Switchgrass**  
*Panicum virgatum 'Heavy Metal'*

**Pink Chintz Creeping Thyme**  
*Thymus serpyllum 'Pink Chintz'*







2023 Tucked away in the shadows of an abandoned rail embankment turned urban forest, elegant beacons of tree-like marble forms elevate and illuminate a series of urban plazas in the heart of Jersey City.

// LA 5020 Studio  
Jennifer Birkeland

**MidJourney, Photoshop, Illustrator, InDesign, Rhino, Fabrication**



- adjacent to baseball field
- variety of nooks, shaded spots to eat
- winding benches, fountain





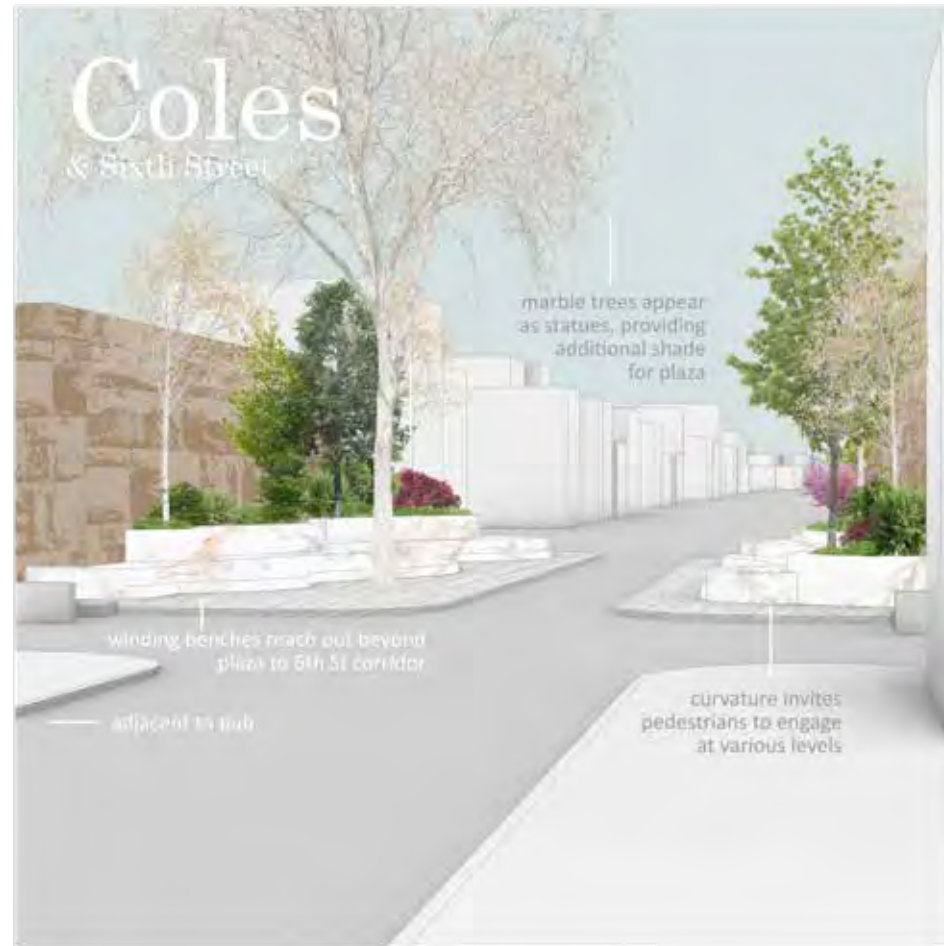
Piazza di Spagna, Rome



Piazza Trilussa, Rome



Piazza Trilussa, Rome



# Coles & Sixth Street

marble trees appear as statues, providing additional shade for plaza

winding benches reach out beyond plaza to 5th St corridor

adjacent to hub

curvature invites pedestrians to engage at various levels



marble trees are illuminated from within, providing ambient light at night

level of light is sufficient for pedestrians, but not so bright as to interfere with cyclists or birds





# lost in the woods

2023 Designed at scale in the virtual realm, this multi-level maze is inspired by a true story. Using natural landforms to hide views and obscure adjacent routes, travelers must negotiate paths that wind through a series of forest, mountain, water, and cavernous landscapes to find their way back to the family campsite.

// LA 5060 The Future of the Image: Tools in Representation  
Jennifer Birkeland

**Rhino, Lumion**





“ I had this wood piece discarded from studio and the pins we use for pinups lying around on my desk, and I needed something to help me envision [the maze]... There are many ways to make a model; this one is pins, paper, and a block of wood—quick and cheap. ”

—AMANDA CARMEN BOWER, STUDENT ASLA  
@amanda.carmen.bower

A STUDENT'S #CURRENTPROJECT COMES OUT ON TOP.



Amanda Carmen Bower, Student ASLA, was six years old when she was camping with her family in southwest Ohio and got lost in the woods. That experience, which Bower—the winner of the #WLAM2023 Instagram photo challenge—describes as equal parts terrifying and thrilling, was one she captured and amplified in a virtual reality maze for her Cornell University studio. Mountainous terrain, forest, water, and a cave are layered in her trace-paper model for this project in progress, which helped her visualize the virtual pathways in tactile dimensions. ●

subterranean path

mountain path

waterfall

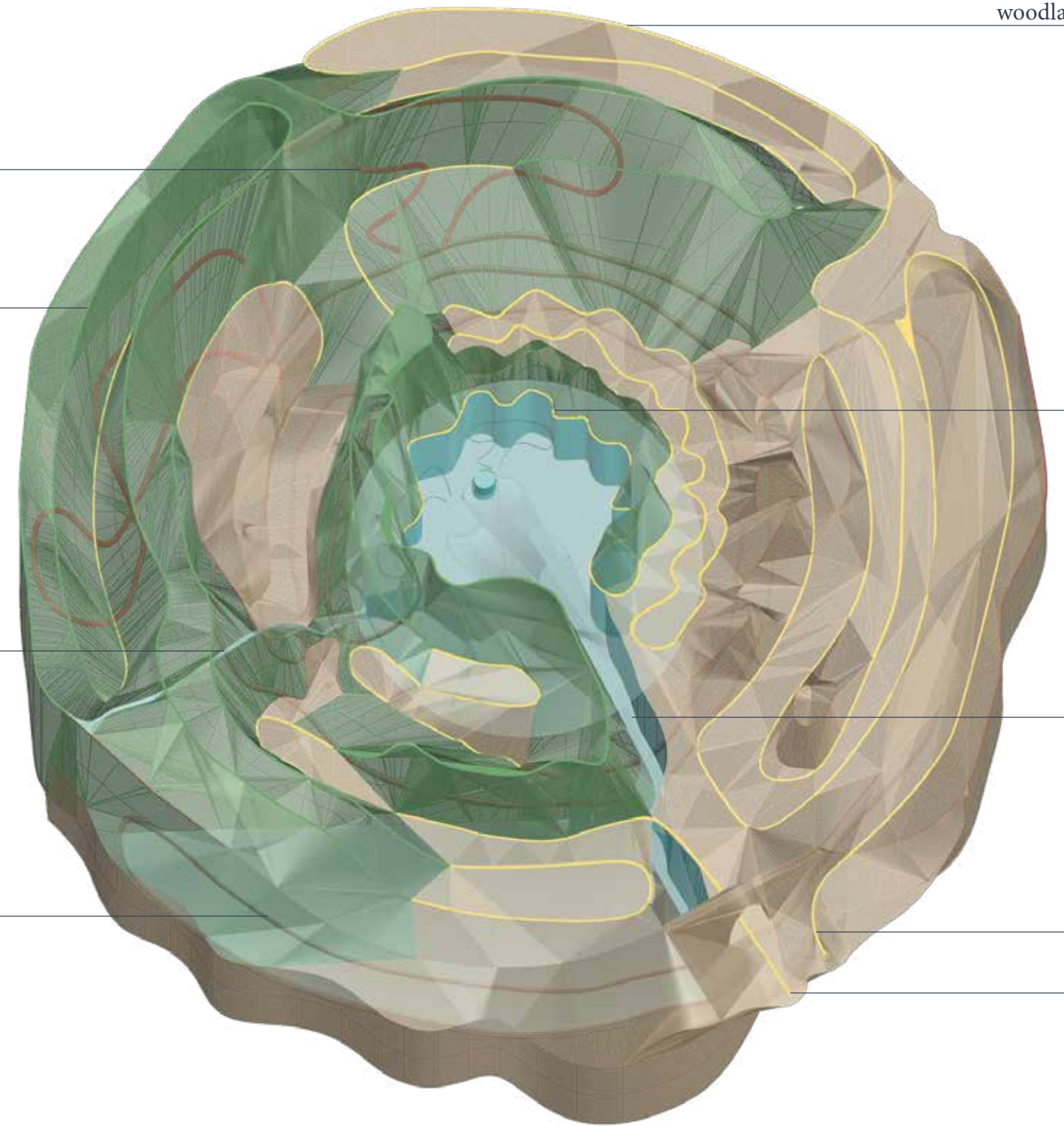
subterranean path

cliff

stream

start

finish



AMANDA CARMEN BOWER, STUDENT ASLA





AVENUE 4/1024  
A not-for-profit continuing care retirement community serving older adults in the Quaker tradition. ©2021

NEW, USED & VINTAGE  
FURNITURE, APPLIANCE, & MORE



1714 CAYUGA ST  
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Private Charters & Events

Stage

The road will close in winter  
the gorge will remain open  
Thompson Park  
Thompson Park is a beautiful

The Cornell Daily Sun

The Cornell Daily Sun

THE CORNELL DAILY SUN | Tuesday, September 6, 2022

NEWCOMERS GUIDE

THE CORNELL DAILY SUN | Tuesday, September 6, 2022

THE CORNELL DAILY SUN | Tuesday, September 6, 2022

NEWCOMERS GUIDE

GUEST OPINION

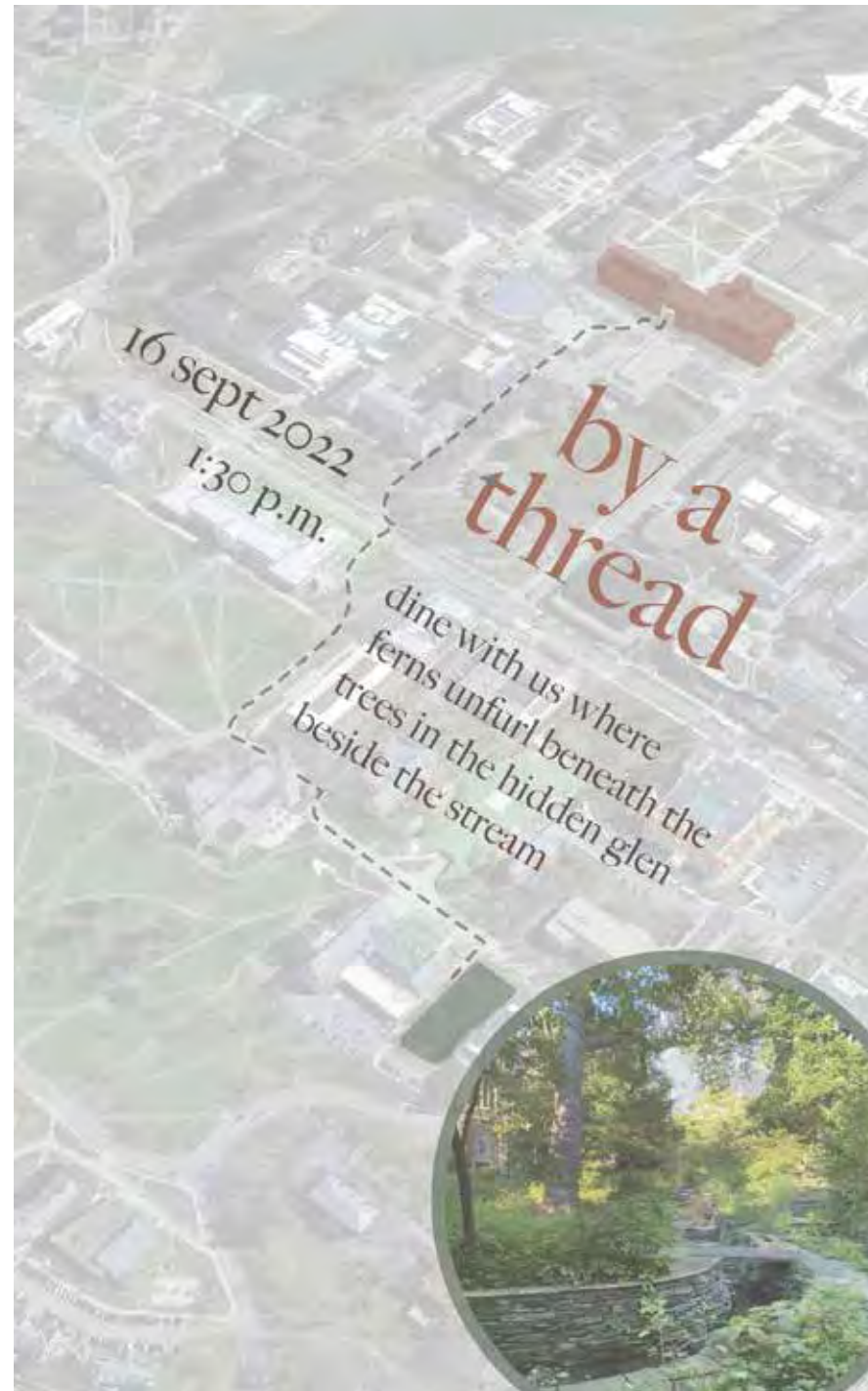
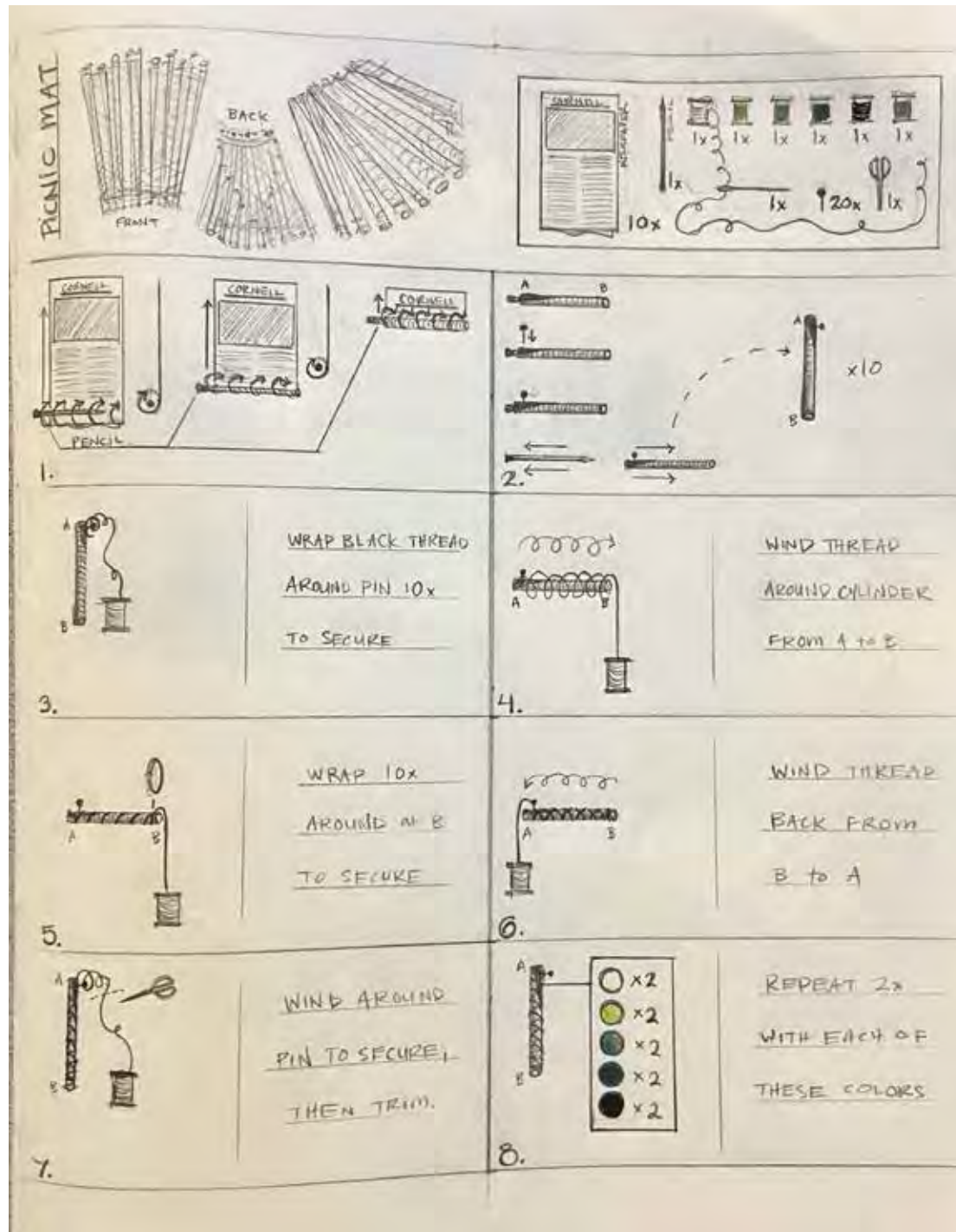


# by a thread

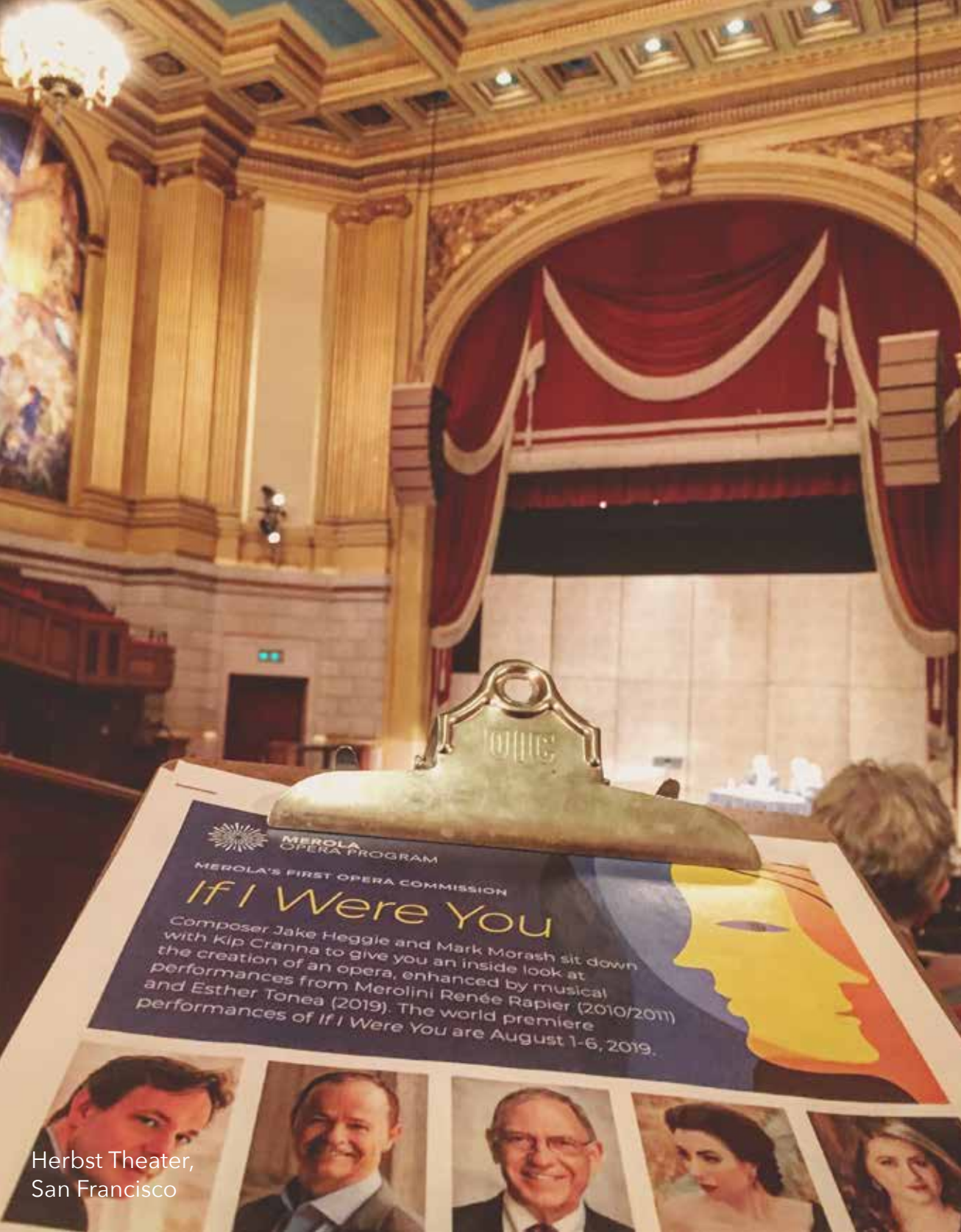
2022 Surface for a picnic.

// LA 5010 Studio  
Martin Hogue

Hand Sketch, Photoshop,  
Illustrator, InDesign, Fabrication







Herbst Theater,  
San Francisco

# If I Were You

2019 A Faustian tale based on the novel by Julien Green, *If I Were You* is an opera by composer Jake Heggie and librettist Gene Scheer that had its world premiere at Merola Opera Program in 2019.

For the year leading up to opening night, I built relationships and managed collaborative events with Bay Area organizations like the SF LGBT Center, Commonwealth Club, Roxie Theater, Los Gatos JCC, San Francisco Opera Guild, San Jose Opera Guild, USF Fromm Center, San Francisco Center for Psychoanalysis, Opera America, and many more.

In my capacity as Community Engagement Manger, I also worked to connect visiting artists with the larger queer community by serving as company liaison and planning committee member for the "Arts Amada" contingent of the 2019 San Francisco Pride Parade.

// Merola Opera Program, San Francisco, California

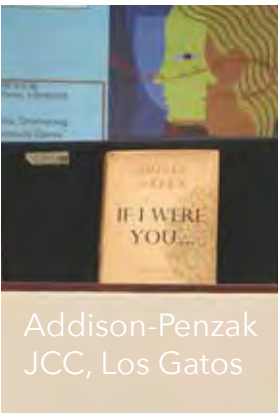
## Community Engagement



Commonwealth Club,  
San Francisco



Rinconada Library,  
Palo Alto



Addison-Penzak  
JCC, Los Gatos



SF Center for Psychoanalysis,  
San Francisco



SF LGBT Center,  
Market Street



Roxie Theater,  
Mission District





SFJAZZ  
San Francisco Ballet  
San Francisco Opera  
San Francisco Symphony  
Merola Opera Program  
San Francisco Conservatory of Music

San Francisco Pride Parade (2019)  
Kristen Loken / Kristen Loken Photography

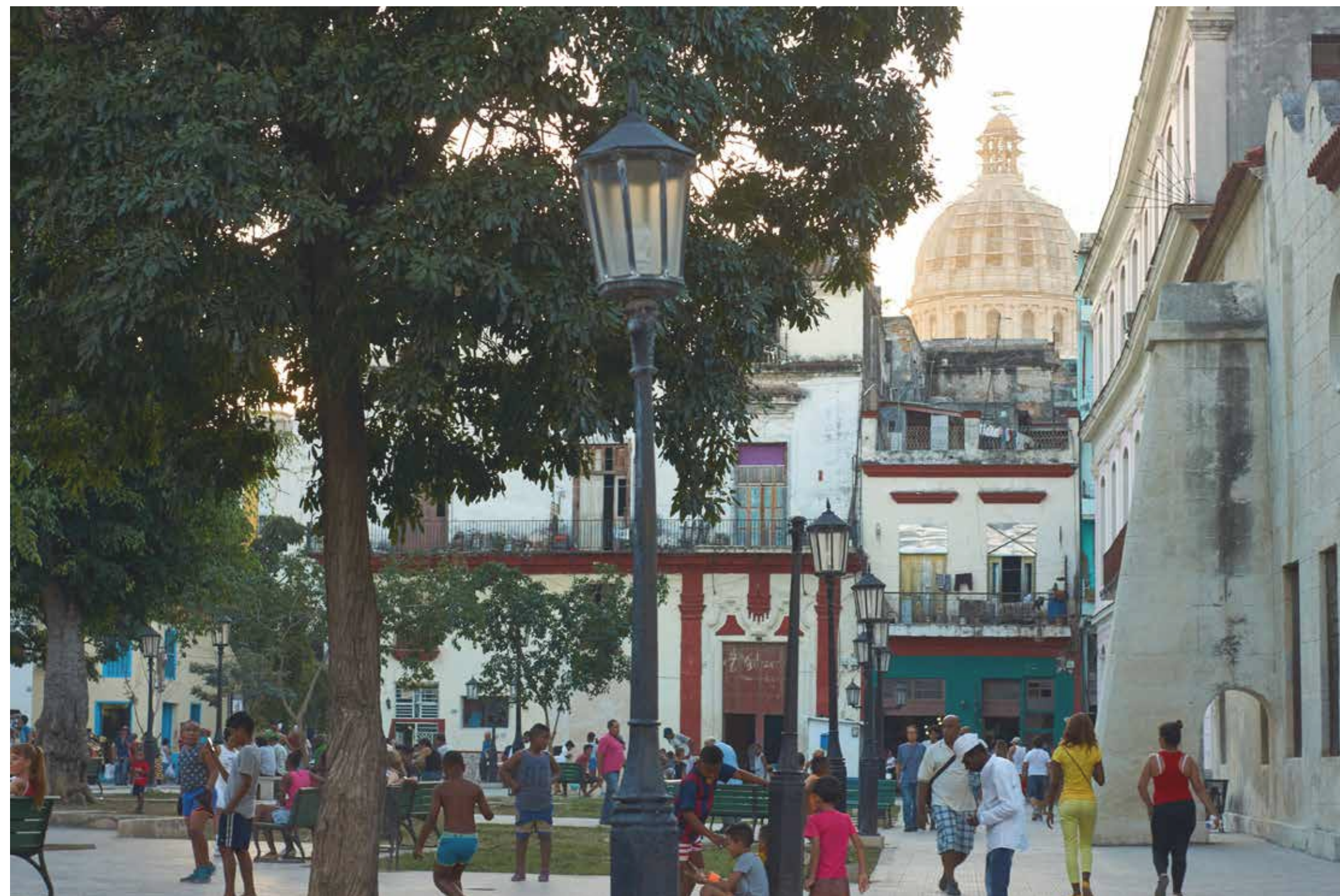




# Havana

2017 Photographic documentation of public space and life in Cuba.  
(clockwise from left) Calle Mercaderes, Plaza del Cristo, el Malecón.

SONY SLT-A77V







**Cornell AAP**  
Architecture Art Planning

**Cornell CALS**

College of Agriculture  
and Life Sciences

**Amanda Carmen Bower**  
acb327@cornell.edu



rare sighting of native  
pollinator on invasive  
*Buddleja davidii*

Bulleit County, Kentucky  
(2020) // Fujifilm X-E1