



ByDESIGN Presents:
CASA Alumni Scholarships
April 22, 2016

CASAalumni

College of Environmental Design, UC Berkeley



Martin Del Campo . Bob Esparza

& Antonia Escobar Scholarships

A c a d e m i c & C r e a t i v e E x c e l l e n c e

Your Hosts

- Jennifer Wolch, Dean CED
- Itzel Torres & Anarosa Robledo
CASA Chairs, CED
- CASAalumni Board
 - Roy Hernández
 - Charles Higuera
 - Oswaldo Lopez

UC
BERKELEY

ENVIRONMENTAL
DESIGN

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AGENDA

- Acknowledgement of Special Guests
- Scholarships Ceremony
- Isabel Castilla, Guest Speaker
- Photographs / Interviews
- Food & Refreshments



Scholarship Recipients



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Scholarship Criteria

- **Part 1: Narrative**
 - Personal statement
 - Participation with CASA
 - Contributions to CED
 - See themselves in 5 years
 - Financial need
- **Part 2: Student Work**

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Thanks to our generous donors:

| | |
|-------------------------------|----------------|
| ▪ Prof. David Diaz | \$100 |
| ▪ Roy Hernandez | \$150 |
| ▪ Oswaldo Lopez | \$250 |
| ▪ Sierra Pacific Construction | \$500 |
| ▪ Charles Higuera | \$1,000 |
| ▪ ThirdWave Corporation | \$2,000 |
| | <hr/> |
| | \$4,000 |

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Abraham Aldaraca
BA Architecture '17

Merit Award
\$100

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Design Research

Learn about precedents that had active systems responding to environmental issues. Media-TIC in Barcelona Spain was assigned to understand the two main functions of the building: the structure and double skin façade that had EFT pillows regulating the lighting. This idea was implemented in a conceptual cut of the façade triangulation and imbedded overhangs acted as a shading strategy to create a passive strategy.





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Hector Arvizu
BA L. Architecture '17

Merit Award
\$100

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A c a d e m i c & C r e a t i v e E x c e l l e n c e

Higher Ground: Sutro Bath Tsunami Memorial

L. Arch 102: Fundamentals of
Landscape Design
Prof. Karl Kullmann

Help provide a focal point for loss, grief, healing, and memory; memorials are designed and constructed in many affected regions. A tsunami memorial in San Francisco will give many who were affected, either directly or indirectly, a place in which to pay their respects and not forget.





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Maryell Abella

BA L. Architecture,
Sustainable Design '17

- CASA Board Member
- Undergraduate Student Council in CED

Merit Award

\$100

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Presidio Parklands

Landscape Architecture 101:
Fundamentals of Landscape Design

Prof. Jennifer Brooks

The task was to create a landscape that connects the Main Post of the Presidio to Crissy Field by creating a gathering space, a pathway, and a threshold. The wind most strongly comes from the northwest direction. I used earthwork in order to harness and manipulate the wind. The site also has a view of the Golden Gate Bridge.





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Matthew Almendarez

B.A. Arch, Sustainable Design '16

- Past CASA Board member
- Helped design the CASA Now! Website
- Rebuilding Together Oakland
- Nominated to CED Circus two years in a row
- Published in the Cal Literature and Art Magazine
- Contributing writer to ByDESIGN

Merit Award

\$200

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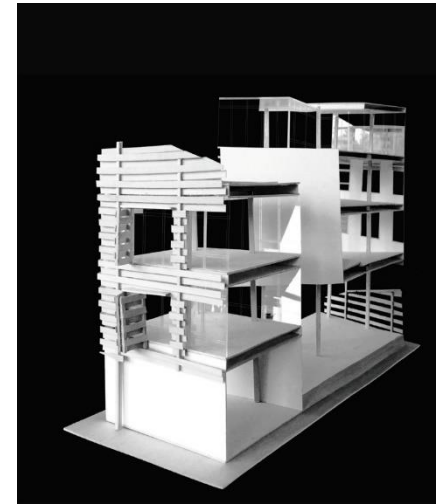
goodFOOD

Fundamentals of Architectural Design

100B Spring 2015

Prof. Harrison Fraker

Design a building solely on the culture of food from an intriguing question: where does our food come from? The design of goodFood was to establish a connection between the production, consumption and distribution of food to the people of the SOMA district in San Francisco. Through the overlapping of program and reading of the neighborhood, I designed a building that would allow a connection and establish a destination where people can enjoy learning about the culture of food.





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Vanessa Hernandez

BA Urban Studies '17

- Past CASA Chair & Board member
- Published on CASA Now! Website
- Lobbied for new Urban Studies courses at CED
- COMTO Northern California Scholarship Program, received highest awards - the Rosa Parks Scholarship and Sharon Banks Scholarship

Sierra Construction Scholarship

\$200

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Academic & Creative Excellence

Accessibility/Expansion of Transit Service

AC Transit
Prof. Sally Goodman

Conduct an analysis comparing impact of proposed service changes on protected populations and non-protected populations. The time analysis attempts to understand how the proposed service change will affect the amount of time it would take for protected populations to access key destinations compared to non-protected populations. Through the creation of isochrones counting the number of accessible destinations from the random origin points.

Access to Public Transit: AC Transit Service Improvements

Vanessa Hernandez

Background

AC Transit's Service Expansion Plan (SEP) is the one of the largest service increases and most extensive service redesigns in some time. It should significantly enhance local service for existing riders of public transit. AC Transit must comply with a Title VI equity analysis. That analysis attempts to determine if there is any disproportionate impact on populations protected by the Civil Rights Act if the Plan is implemented.

Objective

Conduct an analysis comparing impact of proposed service changes on protected populations and non-protected populations. The time analysis attempts to understand how the proposed service change will affect the amount of time it would take for protected populations to access key destinations compared to non-protected populations. Through the creation of isochrones counting the number of accessible destinations from the random origin points.

Methodology

Count the number of O-D Pairs
Start analyzed the number of trips that could occur within 60 minutes; were the number of trips that fell into the isochrone for each Destination, isochrones are used to show areas of equal travel times from a specified origin to the destination points.
Isochrones of access key Destinations for bus - the existing and proposed services at 15, 30, 45, 60 minute travel times were used.

Average Travel Time (to Comparable Destinations)

In order to compare average travel time, origin-destination pairs that belonged to both the before and after data were used. Staff analyzed the average travel time of the population for the four population groups and not the average travel times for each.

Origin Destinations

- Series of the origin-destinations points were reverse geocoded to have a range of address numbers.
- Staff the Reverse could not identify more addresses of the origin-destinations points and would instead count the address origin which would then be double checked for an "address missing" approach on Google Maps.
- The comparable-destinations analysis was a list of 6 origin-destination pairs is (2 Low-income, 2 Minority, 2 Non-Low-income) and 34 origin-destination pairs and the proposed (5 Low-income, 4 Non-Low-income, 5 Minority, 4 Non-Minority).
- Isochrones were created using bins which does not allow for an address to be listed if the destination was a proposed point.

Key Destinations

Shellmound and Bay St.

Mission and A St.

Broadway and 13th St.

Isochrones were used to count the number of origins that could access the destinations and to count the average amount of time needed to reach the destinations. Three examples of key destinations and the random origins that can access them within 60 minutes are shown above.

Isochrones were created from 7 key destinations: Shellmound and Bay St., Mission and A St., Broadway and 13th St., Old North Port Station, Center St. and Shattuck Ave., E 34th St & Estrella Ave., and International Blvd and 34th St, with walking times from the origin of 15, 30, 45, 60 minutes.

Results

Counting the Number of O-D Pairs
This analysis found there was an overall increase of Origins that fell into the isochrones for each Destination reached (+9%). Non Low-income population had slightly larger increase in trips reached with (5% more) than Low income population, and Minority population received slightly larger increase in trips reached (2% more) than Non-Minority population with all population groups having an increase trips reached.

| | Existing | Proposed | % Change |
|----------------|----------|----------|----------|
| Low Income | 65 | 66 | 1% |
| Non Low-income | 29 | 32 | 11% |
| Minority | 38 | 41 | 8% |
| Non-Minority | 44 | 46 | 4% |
| Total | 133 | 135 | 2% |

Average Travel Time (to Comparable Destinations)
This analysis found the origin-destination pairs that belonged to both the before and after data had the greatest decrease in average travel time. Low income with (-11.29% more) than Non Low-income which had an increase in average travel time, and Minority had a slightly greater decrease in average travel time (-1.06% more) than Non-Minority which also had a decrease in average travel time. Low income average travel time change decrease was (5 min. more) than Non Low income, and Minority had a decrease in average time of (0.4 min more) than Non-Minority.

| | Existing | Proposed | % Change | Minute Change |
|----------------|----------|----------|----------|---------------|
| Low Income | 45 | 42.6 | -5.33 | -2.4 |
| Non Low-income | 42.3 | 45.5 | 7.06 | 3.2 |
| Minority | 48.8 | 47.5 | -2.67 | -1.3 |
| Non-Minority | 47.2 | 46.3 | -1.91 | -0.9 |

Analysis Findings

Destinations Reached

Average Travel Time (to Comparable Destinations)

Conclusion

Proposals contained in the Service Expansion Plan will not have any negative impact on ... and ... groups. Those groups would experience increase in access, measured by ... and also experience a decrease in the amount of time needed, measured by ...



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Alejandra Aguilar

BA Landscape Architecture,
Environmental Planning '17

- Current CASA Social Chair, mentorship program
- Intern Outreach Committee at Raza Recruitment/Retention Center since freshman year
- Raza Spring Break Outreach, Los Angeles
- CED Ambassador Undergraduate Program
- 2016 CED Circus Event

Sierra Construction Scholarship

\$300

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Higher Ground: Sutro Baths Tsunami Memorial

Case Studies in Landscape Design 102

Prof. Karl Kullman

This project designated the task of designing a memorial experience that engages issues of calamity, loss, rebuilding, hope and memory. The design focused on creating the experience that survivors of a natural disaster suffered. The concept of this design is convergence and divergence. This design uses the existing site conditions to play with a theme of dark versus light as well.

Existing Condition



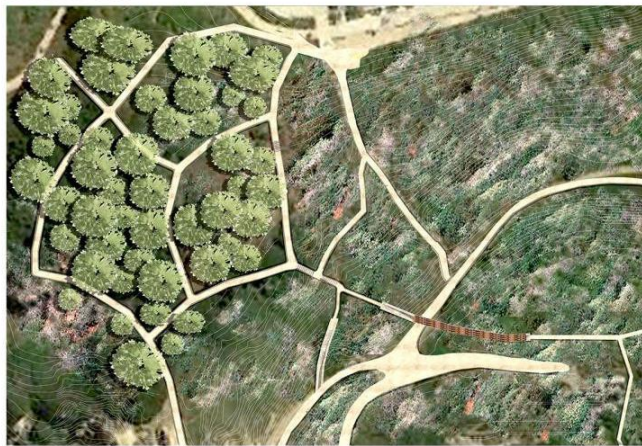
Context Plan Proposal



Birds-Eye View



Master Plan



Detail



Staircase leading to underground tunnel, where users rise from a dark enclosed tunnel to an open lite area, overlooking the ocean.



Section B

1/32\"=1'



Section A

1/32\"=1'



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Anarosa Robledo

BA Urban Studies, Architecture,
Sustainable Design '17

- Current CASA Chair
- CASA member since freshman
- New CASA Mural

Antonia Escobar Scholarship
\$1,000

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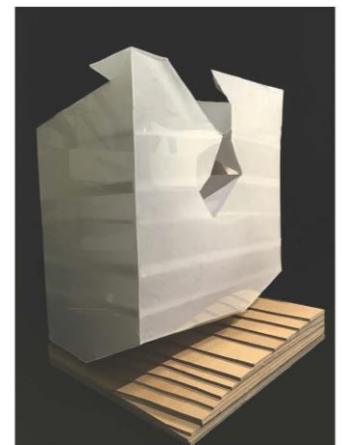
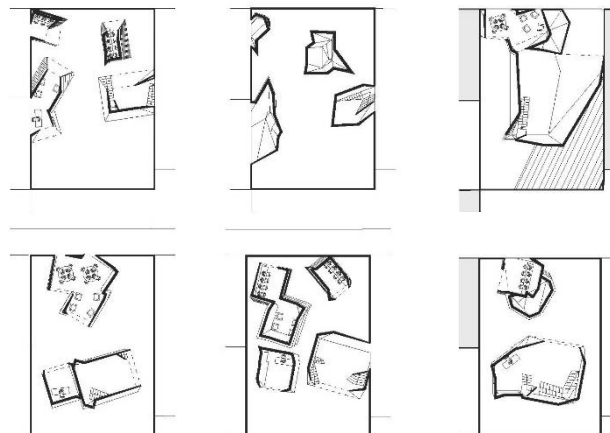
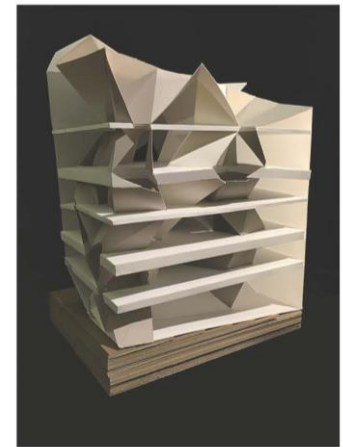
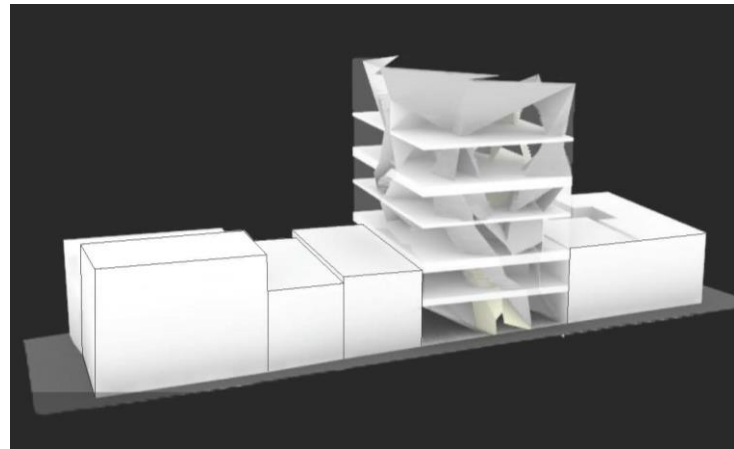
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Library Intertwinement

Arch 100a Fundamentals of Architectural Design

Prof. L. Iwamoto / D. Price

After analyzing the program I decided to pursue an intertwinement of not only physical space, but of program as well. These intertwining forms create resource spaces (lobby. admin, media, reference studies) within them to allow for accessibility of resources throughout. The lobby contains circulation, the walls of admins are perforated, media is surrounded by the CD/DVD collection, and reference studies is surrounded by book shelves. This arrangement makes the library more manageable and efficient. making each floor like a mini-library.





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Adrian Garcia Hernandez BA Sustainable Environmental Design/Forestry '17

- CASA Officer for 3 years
- New CASA Mural
- RAZA Caucus Fundraising, Chair.
- Hispanic Scholarship Fund's Berkeley Chapter HSF scholarship recipient, twice
- Raymond Watson Best Project Prize

Bob Esparza Scholarship
\$1,000

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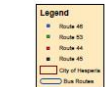
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Academic & Creative Excellence

Sustainability Approach in Hesperia, California: Sustainable Desert Development

ED 102 Critical Debates in Sustainable Urbanism Prof. David Waldron

The creation of a mixed-use complex to serve as an experimental micro-center for the city, providing multiple services to underserved residents. Such a center would serve as a niche innovation in the broader sustainability efforts of the desert environment. My solution was informed by the fact that I lived in the city I chose to analyze and therefore I have personal experience with the needs of this city



Created by GIS Division
City of Hesperia
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Date: 06/11/09

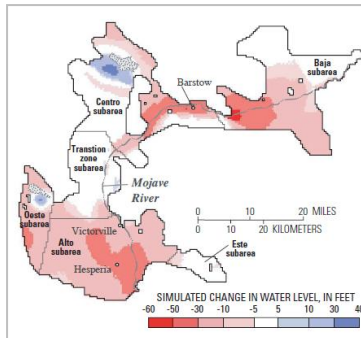


Image 3: Car trapped by resented flash flood on Jacaranda St. Hesperia



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Itzel Torres

BA Architecture/Public Health '18

- Current CASA Co-chair
- New CASA Mural, Lead
- Intern, Raza Retention & Recruitment Center
- Raza Day organizer, 600 high school students
- Hyphee Outreach Program, mentors for high schoolers in Bay Area
- Contributing author to ByDESIGN, Vol 18

Martin Del Campo Scholarship

\$1,000

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Sacre-Coeur Basilica: A Battle Between the State & Church

History of Architecture and Urbanism / 170a

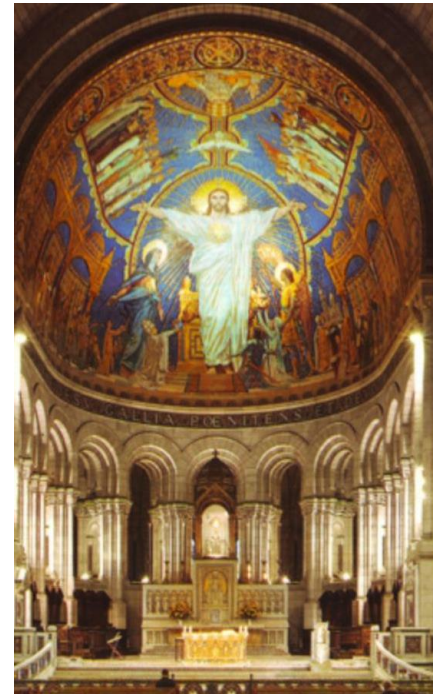
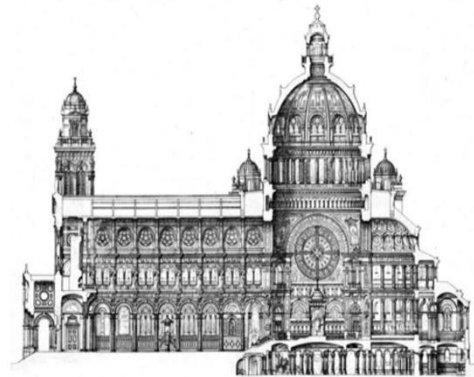
Prof. Dora Epstein Jones

Analyzed how this structure affected the French during the late 1800's. Analyzed plans, sections, and extrusions to understand how it was built and how the materiality portrayed the power the church wanted to have. Examined the power struggle between the church and state and how structure defined the winning side.

Izuel Torres
Arch 170a
Razieh
12/17/14

Sacr -Coeur Basilica: The Battle Between State and Church

The Sacred Heart " Sacre Coeur" Basilica of Montmartre in Paris, France serves as monumental example of the turmoil that is created when church and state fight for power. The Sacred Heart Basilica was built in a time where Paris was expecting great change. France had just suffered a great defeat in the Franco-Prussian war and the Third Republic of France was being establish when the design to the basilica came out to the public eye in 1870 just as the Paris Commune was taking its own accord. The Paris Commune stood for a change in how the government was run at the time: "The Commune was not a debating parliament of career politicians whose decisions were dictated by vested interests, but a working body, operating for the welfare of the community. Representative institutions remained, for these are always essential to democracy, but parliamentarism, with its privileged representatives and its peculiar division of labor which permitted the shirking of responsibility, was scrapped. The Commune was a democracy without parliamentarism and without high-priced officialdom" (Samuel Bernstein 57). It was the start of a new era for France. The monarchy was not preferred anymore and the rise to democracy was





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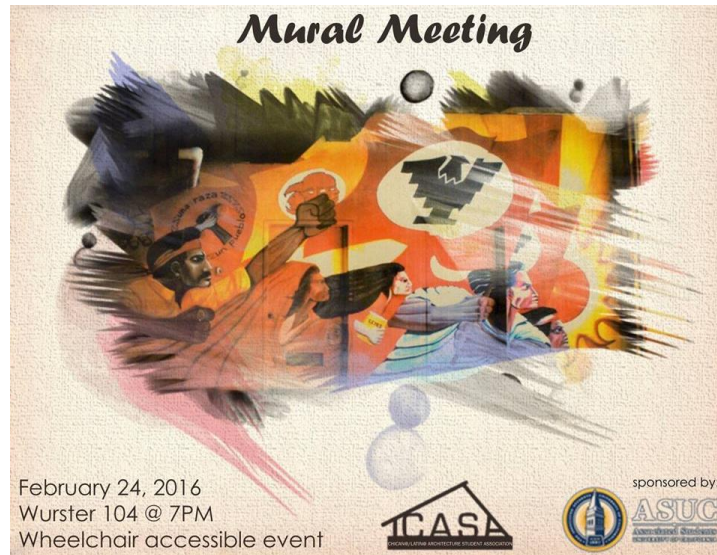
New CASA Alumni Mural

Wrote CASA proposal to obtain approval and funding to design and paint a new mural in Wurster Hall to illustrate Xicanx/Latinx history through a visual narrative. The mural will:

- “Illustrate the novelty and resilience of the Xicanx/Latinx culture;
- Ensure the design is carried out and has a permanent space;
- Regain our voice, insuring future Xicanx/Latinx designers coming to Wurster know they have family there.”



That was then . . .
1977,



this is now . . .
2014.

February 24, 2016
Wurster 104 @ 7PM
Wheelchair accessible event





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A c a d e m i c & C r e a t i v e E x c e l l e n c e



We are proud of you!



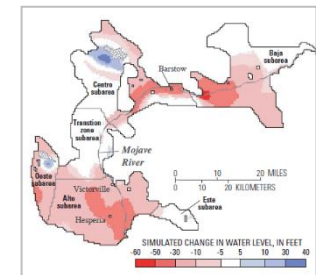
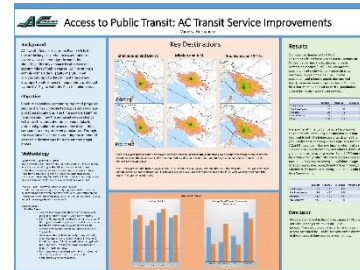
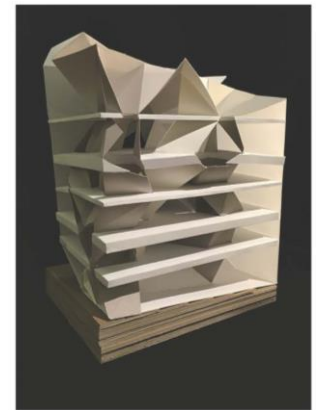
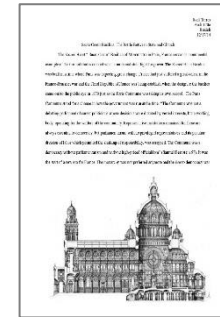
Isabel Castilla: Guest Speaker Designer of the Future Metropolis



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Thanks for supporting the Dream!





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