Recent Academic Work
Cristina Clow
Massachusetts Institute of Technology
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**Petrichor Winery**  Valle de Guadalupe, Baja California, Mexico

Designed to take advantage of the desert climate, this project carves away at the steep, rocky mountain, taking advantage of its thermal mass. On the other side, a weathering steel facade peels away and cantilevers, shading and revealing different microclimates for the production and enjoyment of wine. left above: carved courtyard, left below: massing model, right: parti diagram

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1. Program divided into storage, production, and hospitality

2. Blocks arrayed to fit sloping site

3. Circulation ramps occur at overlap areas

4. Facade wraps around volumes to frame views and create intimate spaces

5. Backyards are cut into the mountain, allowing light to enter and providing additional social space
Petrichor Winery  Valle de Guadalupe, Baja California, Mexico

sections
Petrichor Winery  Valle de Guadalupe, Baja California, Mexico

section model lighting, facade, and assembly study
**Timber Pier Housing**  East Boston, MA

High density modular housing with access to the water and optimized views of the Boston skyline. Lightweight prefabricated timber panels allow the project to be built quickly and efficiently. Common spaces on the elevated ground level and in the connections between towers encourage connectivity.
Timber Pier Housing  East Boston, MA

section
Timber Pier Housing  East Boston, MA

Typical floor plan of two connecting towers
Timber Pier Housing  East Boston, MA

Left: pier site model, photo by Andy Ryan
Right: model of one tower. photo by Andy Ryan
Rammed Earth Research

group work with Wenxin Cai and Yifen Zhong

Detailed design research on reinforced, insulated rammed earth wall systems based on traditional clay masonry technology

responsible for final presentation renderings and detailed wall section

Left: rendering of typical corner interior and kit of parts

Right: typical wall section

Spring 2017 Architectural Assemblies Instructor: John Klein
Cultivate Casablanca, Morocco

An adaptive reuse proposal to turn an abandoned abattoir into a botanical garden by altering all of the roofs and all of the ground. Utilizing the existing robust drainage system, water can be collected and stored for irrigation. Meanwhile, roofs are re-shaped to direct water and let in light.

below: rendered site plan of the abattoir complex
Cultivate Casablanca, Morocco

Above: site sections
Below: collage depicting the existing historic facade with new roof forms, new ground plane, and garden program
Chair for a Moroccan cushion

maple, 20” x 20” x 30”
chair designed and hand made to showcase a square cushion from my travels
photos by James Addison
Emerald Necklace Theater  Boston, MA

An open air theater questioning the typical proscenium space by creating a field of poles through which actors and audience members can slip in and out of sight. Poles also function to support lighting, set pieces, and greenery in this park setting.
Emerald Necklace Theater  Boston, MA

Left: day and night visualizations of the two distinct theater spaces
Right top: detail diagrams
Right center: plan of entire theater complex
Right bottom: site section
Asserting the library as a place of quiet escape from the city, the form of this building draws people in and down from both sides of the site. Five celebrated reading rooms, each with their own oculus, serve as gathering points for the community.

below: study model photograph
**Double Balance**

4 axis milled Douglas Fir computational derived form able to stand on its own or balance on a point

**Model Rocket**

flip-milled foam working model rocket computationally designed to follow a predictable flight path
**Un-Demolishing the Projects**  St. Louis, MO

Research into the infamous Pruitt-Igoe housing project and the site and context of St. Louis today. Leads up to a speculative proposal borrowing the form and footprint of the original Pruitt-Igoe with architectural interventions designed around ideas of defensible space and contemporary mixed-income housing development.

Left: regional map of St. Louis city and county
Right: Collage analysis of historic promotional photographs
Un-Demolishing the Projects  St. Louis, MO

Left: site model
Right: site axonometric
Un-Demolishing the Projects  St. Louis, MO

Typical floorplans overlayed with original Pruitt-Igoe floorplan in yellow
Un-Demolishing the Projects  St. Louis, MO
Graduate Thesis
section perspective