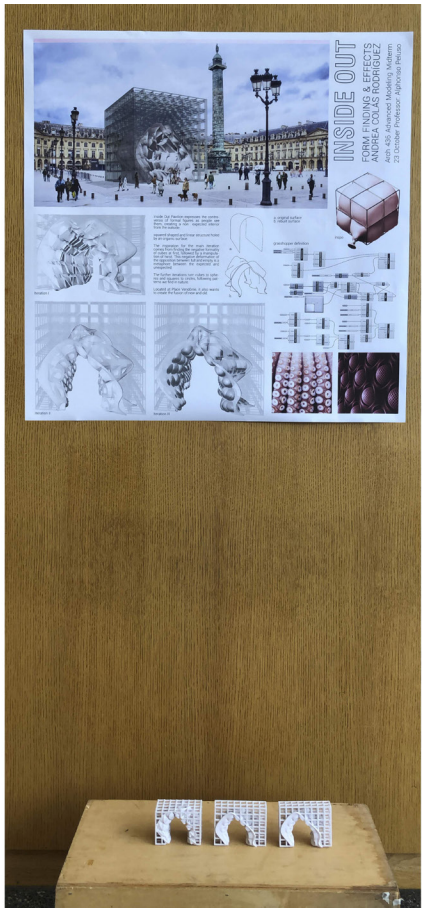
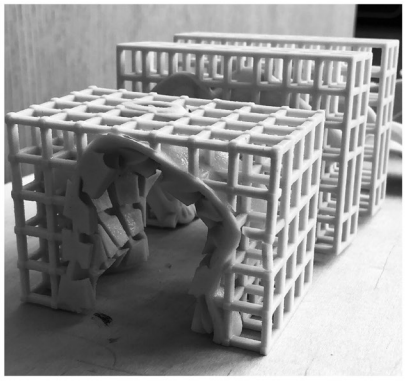
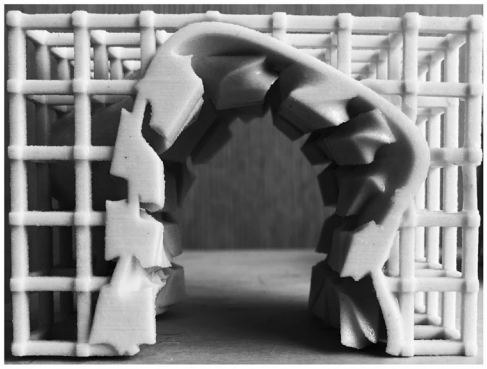
Arch 436 Advanced Modeling _ Professor: Alphonso Peluso

Midterm _ 3D Print Assignment _ Theme: FORM FINDING OPTIMIZATION & EFFECTS





MIDTERM PRESENTATION
ANDREA COLÁS 23 OCTOBER



Project: Develop a **strong design concept** to create design and 3D print an OPTIMIZED FORM FOUND architectural building element. Examples of building elements are, but not limited to, Curtain walls, Roof panels, Walls, Conceptual building mass studies, etc...
Use ***KANGAROO, GALAPAGOS and PANELING TOOLS*** (or other tessellation method)

You must integrate the concept of multiple values into your design

3D Print Requirements: **(3) iterations of your Design approximately 4" wide or deep (you are printing a series)**
3D Printing Budget: Do not spend more than $35 on your 3D Prints

Processes: Rhino / Grasshopper / Kangaroo / Galapagos / Paneling Tools / Parametric Modeling / / Form Finding / 3D Printing

Machines: Stratasys F370 3D Printer located in the Idea Shop. Use White Filament

Objectives: The design, 3D modeling, and 3D printing process will serve as a means to connect the virtual space to the physical real world space. Create a ***non repetitive*** tessellation. Use Kangaroo and Paneling Tools (or other tessellation method to create as much ***effect*** as possible).

Schedule: Week-07 - Submit design concepts to your Google Drive (The conceptual idea(s) are very important)

Week-08 - Submit (3) renderings of (3) different iterations of your revised design proposal to your Google Drive. Please also submit a jpeg of the grasshopper definition.

Monday March 07th Week-09 - Submit (3) professional photoshopped photos of your 3D Prints (with good lighting) to your Google Drive.
Bring your 3D Prints and a 36"x36" print with the following: (3) photos of 3D Print, Grasshopper definition, Conceptual design and renderings, (20) Iterations

(note: deliverables listed above are due before each class)

Submit: Submit all deliverables to your shared Google Drive