Projects 03 Portfolio CIAD 5001 Sci-fi Vernaculars Inside/Out



intro group task

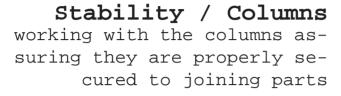
Ground / Foundation to come up with methods of stabalizing the structure without puncturing the

ground below

















general design of overhead canopy that connected together well with sturdiness and style.



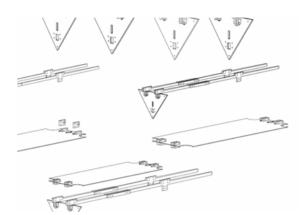
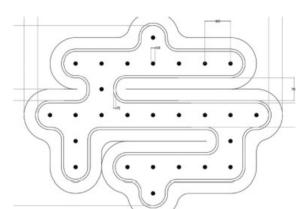


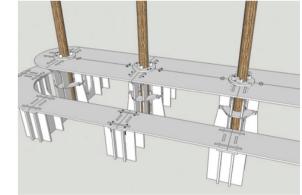


Table / Suface

playing with interaction between people and our structure with the use of table and seating surfaces.



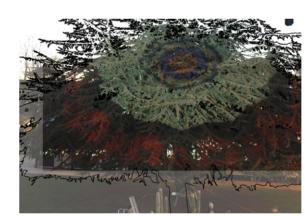




Events management

In charge of management of projections, music, advertisement, organization of end of project event as well as documentation thoughout project.



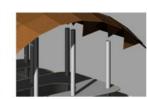




Rhino

In charge of modeling all iterations in rhino for visualization of overall design before build.









my group and task:

Soft Archihtecture / Interactive create an installation using plastic to elecit the effect of sci-fi in the vernacular pavillion as well as integrate an interactive element to create a responsive design.









our roles in our group: Gabrielle D'Errico: Document, project package, model maker

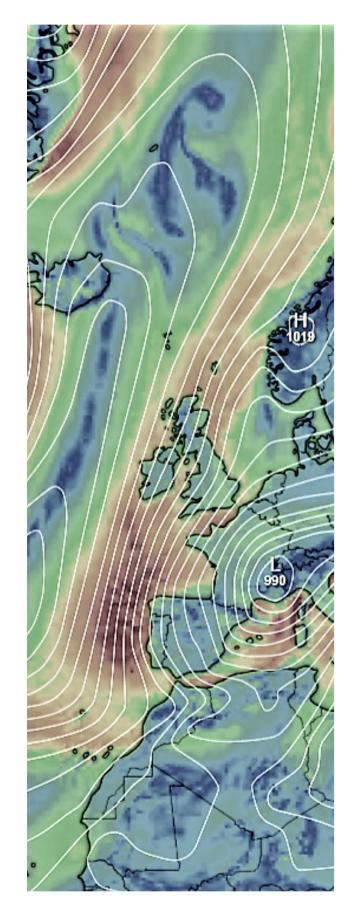
Emma Quetier: CAD drawer, model maker Lauren Mauger: Health & Safety, Model

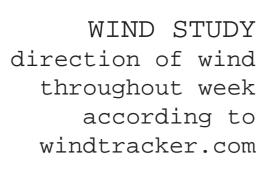
maker

Shreya Prakash: Model maker Linghui Xu: Model maker Ziyue Huang: Model maker Chun-an Tsai: Interactives Tianyi Zhou: Interactives

site

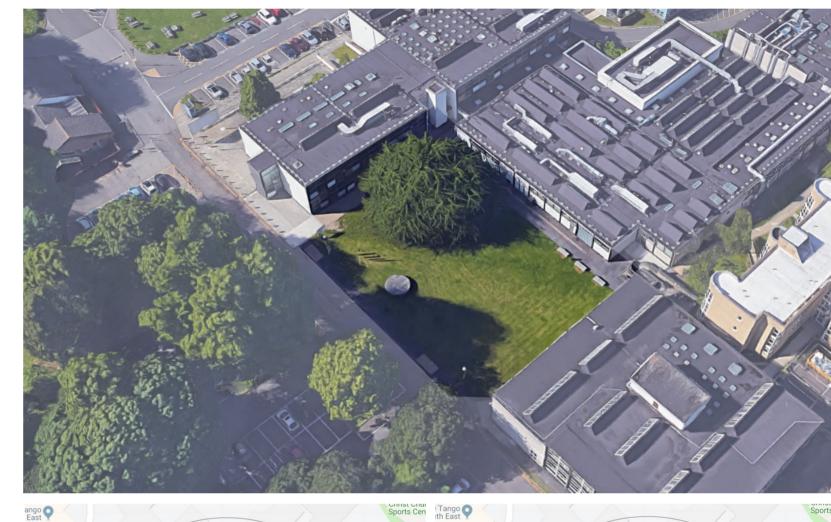
To start off, I felt it was important to be aware of the context of our site. In the middle of the lush UCA courtyard between one and two storey buildings holds many students during lunch breaks and sees the arrival and departure of students at all times of the day. This busy and varrying foot activity is also reflected in the most noticable climate condition on site- wind.

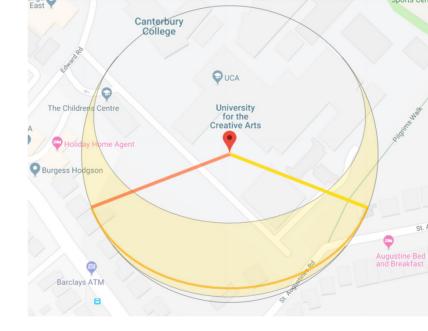


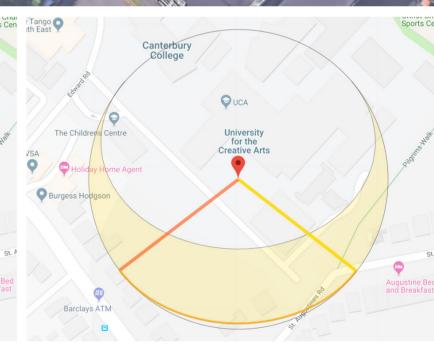


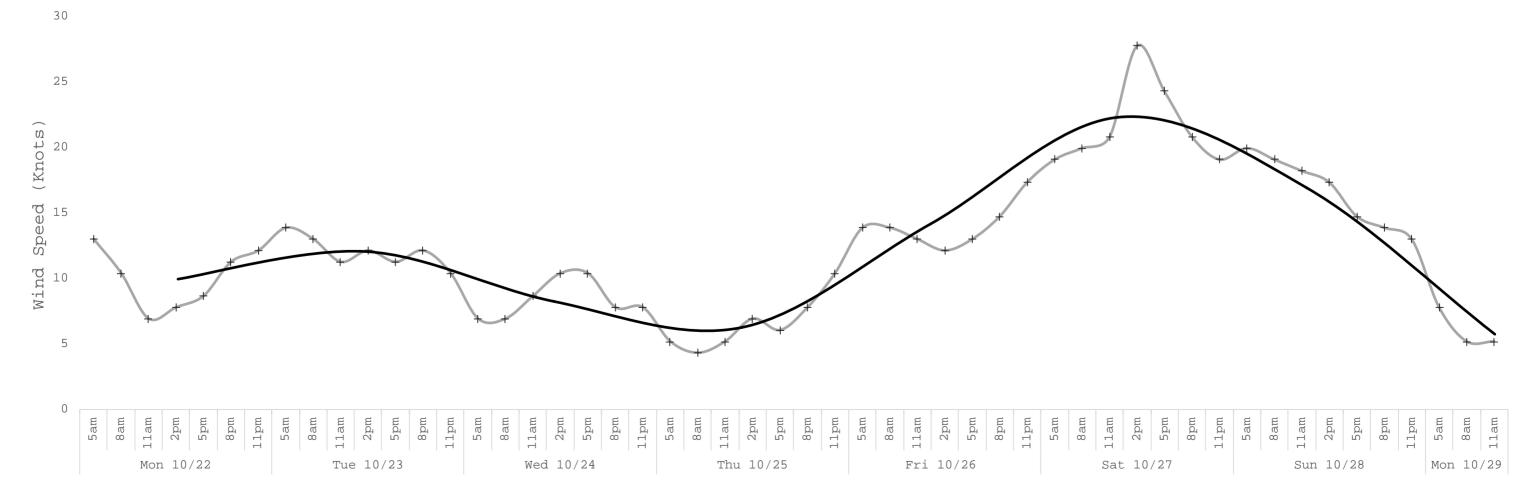












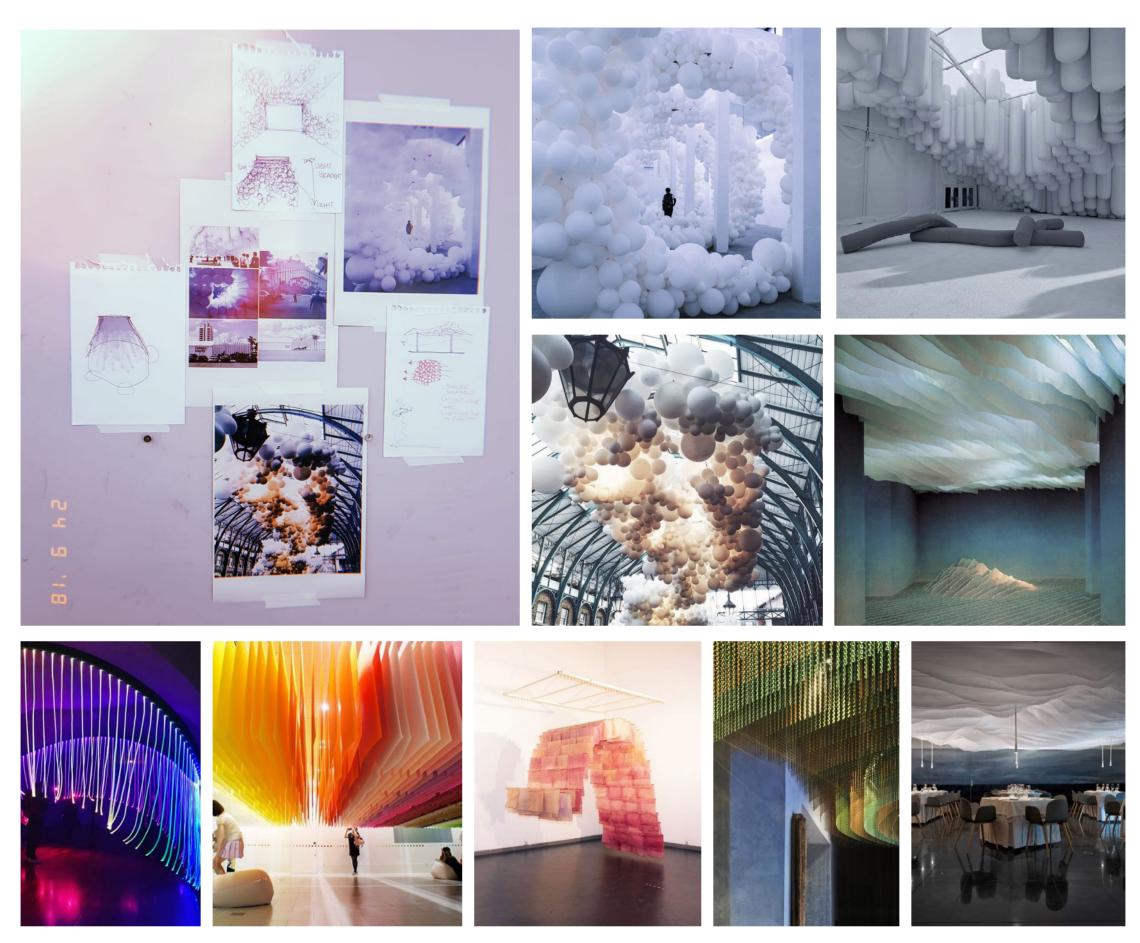
Variation in Wind Speeds Thorughout the Week

10/28

SUN

design prep

precedents



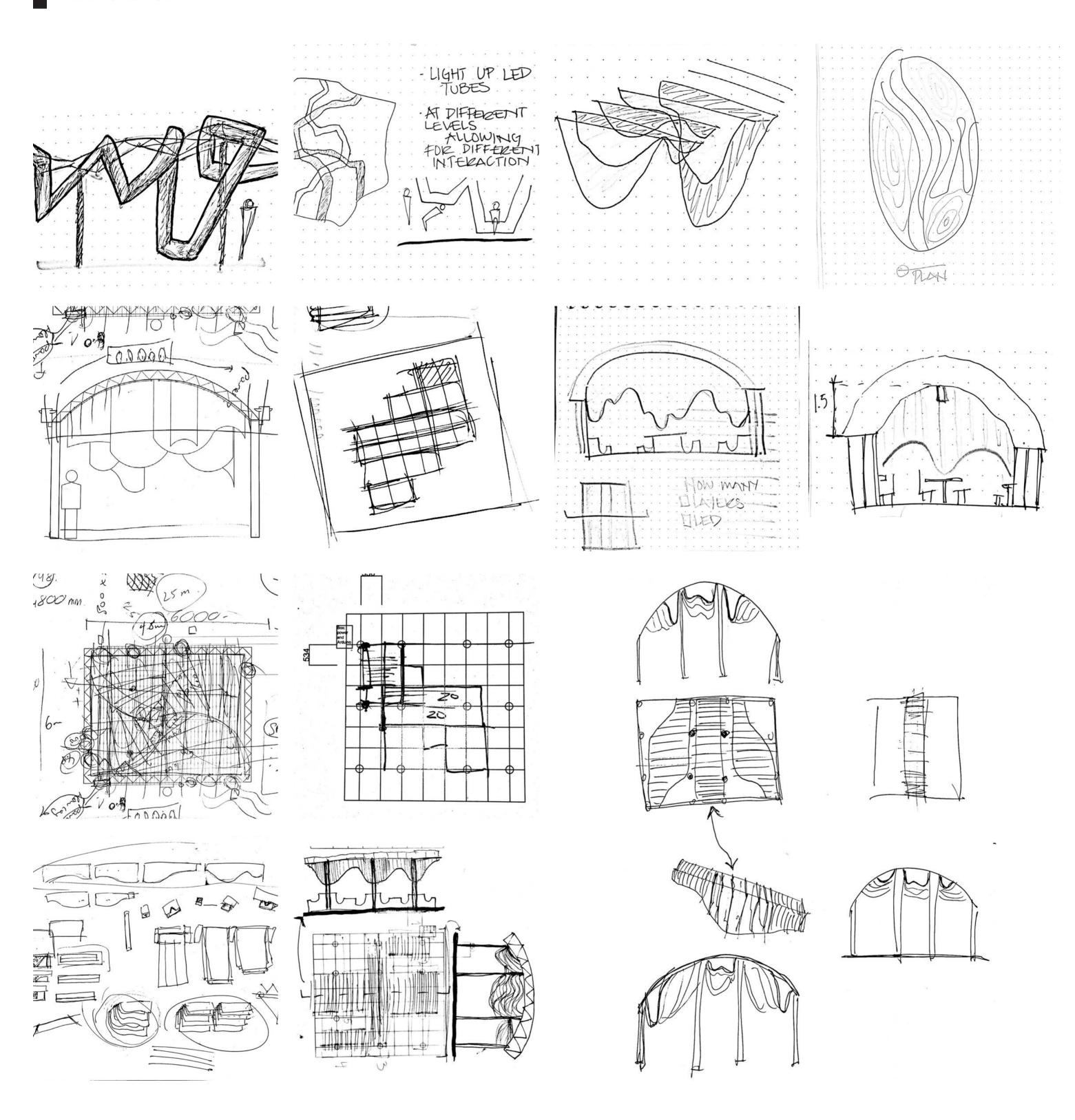
materials budjeting spreadsheet

(that we never ended using)

Product Description	Price	Estimated Delivery Date	quantity	Link
ANSIO 3401 Polythene Dust Sheet Roll 2m x 50m	6.89	Friday, 28 Sep.		https://www.amazon.co.uk/ANSIO-
Polyshield 10m of White/Black / White Hydropo:	16.66	29 Sep 2 Oct		https://www.amazon.co.uk/Polysh
Big Balloon 36 Inch Giant Latex Balloon Large	11.69	Friday, 28 Sep.		https://www.amazon.co.uk/Balloc
WHITE PVC VINYL INFLATBLES PLASTIC SHEETING F.	9.99	28 Sep 1 Oct		https://www.amazon.co.uk/RESIST
Simplefirst Emergency Thermal Blankets, Survi	0.89	29 Sep 3 Oct		https://www.amazon.co.uk/Simple
Luxury Home Decor White 90" Width Cabric Cotts	0 /meter	Monday, 1 Oct		https://www.amazon.co.uk/dp/B01
60" wide Calico Fabric - per metre	2.31	Saturday, 29 Sep		https://www.amazon.co.uk/60-wic
Mirror Foil High Shine Liquid Wet Look Stretc	7.99	Saturday, 29 Sep		https://www.amazon.co.uk/Stunni
Korbond 20 m Hemming Web	3	Saturday, 29 Sep.		https://www.amazon.co.uk/Korbor
2 Packs 0.4 mm Clear Nylon Wire Non-stretchy 1	5.99	tomorrow, 28 Sep		https://www.amazon.co.uk/Non-st
CONNEX DY2701383 2mm x 30m Galvanised Wire Roj	12.09	tomorrow, 28	Sep	https://www.amazon.co.uk/CONNEX
White 4oz Waterproof Cover Fabric (Per Metre)	£4.95	4 - 6 Oct.		https://www.amazon.co.uk/White-

sketch

To filter through ideas, and visualize my design I like to do quick little sketches. These are a collection of sketches done by me and my group trying to communicate our ideas to eachother.

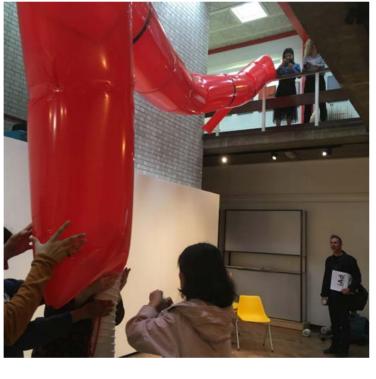


material exploration

plastic bags + an air blower



inflation and testing the boundaries



big long tubes of air



multiple smaller elements





testing different materials

and after all that we decided we
didn't want to inflate things

model making

We then went on to make several iterations of models to test everything from density of the plastic sheets, fascining to the structure, testing plastic lengths onsidering interaction with wind, spacing between plastic sheets, and overall form.







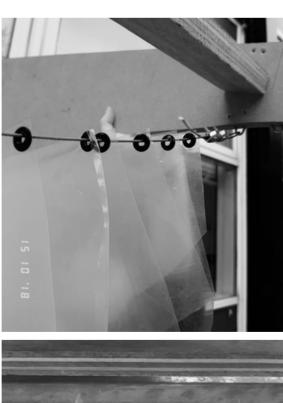




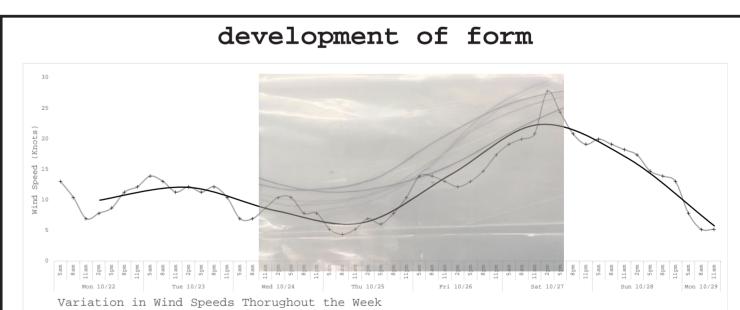






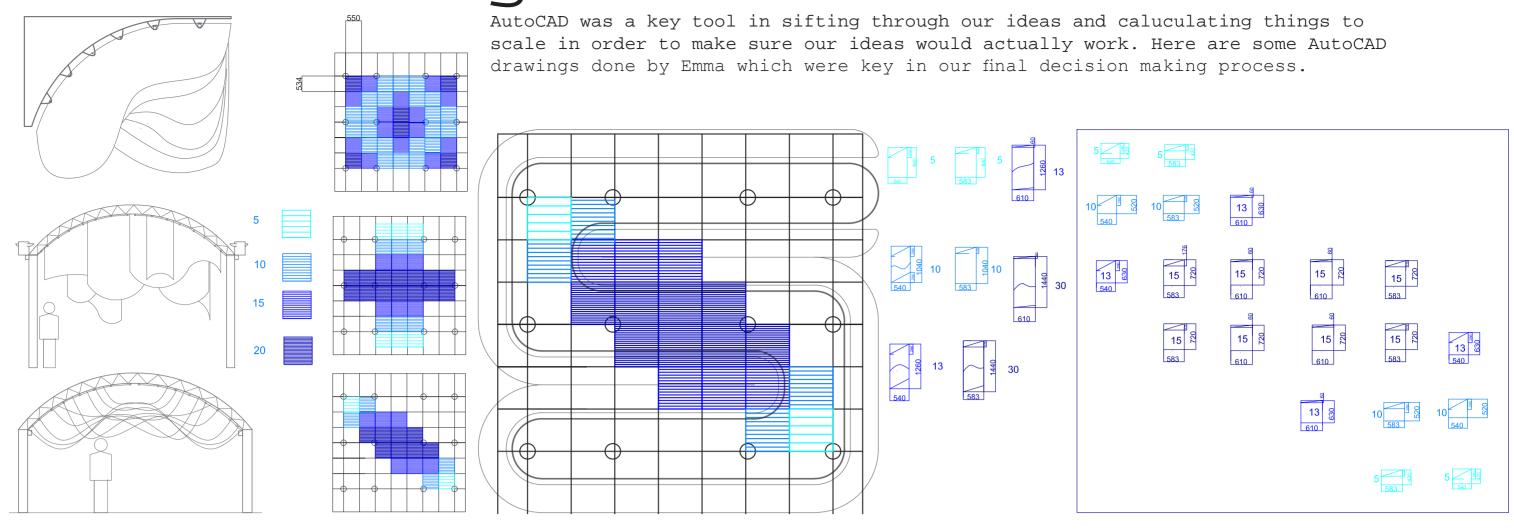






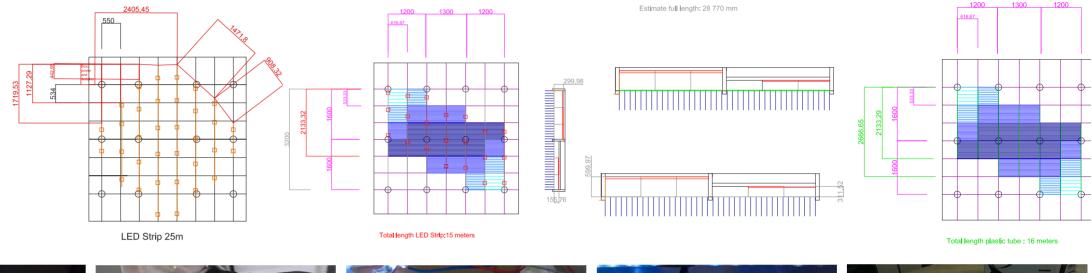
After many prototypes and various explorations, we were able to make decisions about our design without needing too much information from other groups. First being our prototyping stage which revieled to us how certain amounts of plastic sheets will look and how that can wor towards the overall shape of our design. Next we drew inspiration from the wind variation studies for our oscillating pattern. Finally, once the table team had finallized their design, we were able to decide where our sheets would hang. We placed it in a diagonal connecting either end of the table to create a cohesion between the table and overhead while also saving head space.

cad drawings

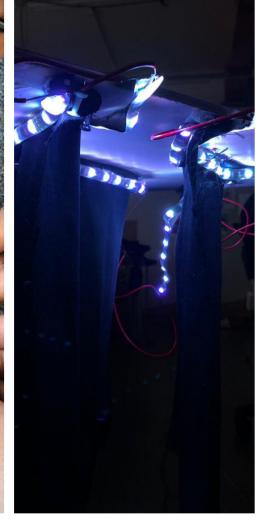


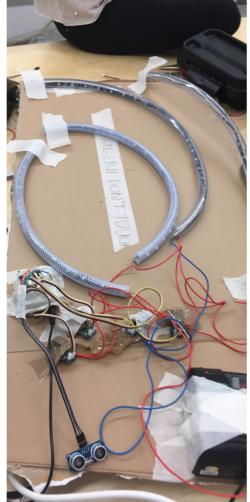
interactives

The Interactives portion of our assignment was taken on mostly by Tino and Andrew. Once we decided that we wanted our project to respond to wind- it was then their job to use Arduino to get LED lights to respond to movement of the plastic from the wind. AudoCAD was also used here to calculate wiring and length of LED strips needed.





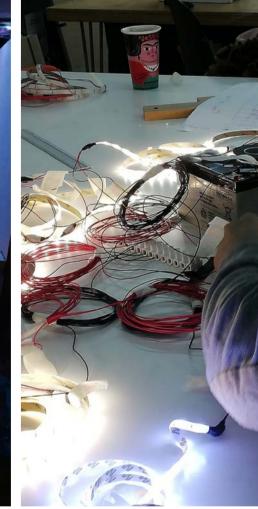






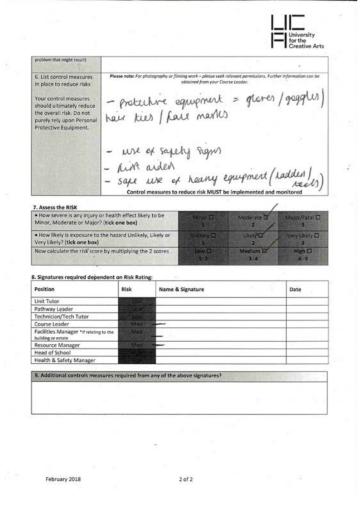


Length wire (holding sheets): 22 400 mm



health & safety





This risk assessment is appli The overall risk is assessed a Date assessment complete Name:	s: 🗆 Low		tion desig	n, build, installatio	on display & disp	25			
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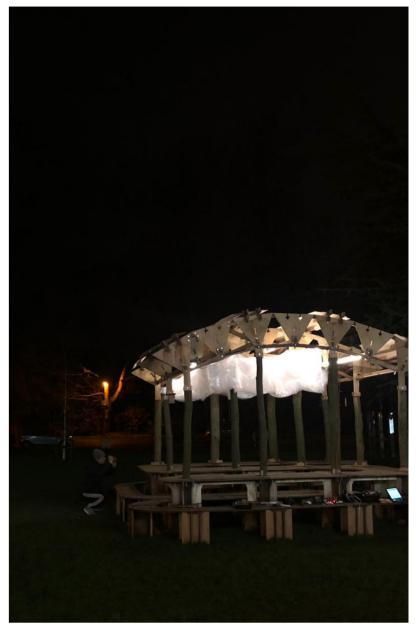
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Visual effects: smoke, snow, fireworks		•				
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Is the installation of a sensitive nature or likely to cause offense to the beliefs or values of others?	n/A	Information may need to be given to audiences. In such instances advice should be sought from the Course Leader or Cultural Programme Curator.	0	- 6		
	1					
	Risk Ratin	g Guidance				
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Hazard capable of resulting in death, severe injury, disability or serious illness		High Likely to occur imminently or in the very short term				
. High cost both to individual and a	organisation	Medium Likely to occur in time		2		
Hazard capable of resulting in moderate personal injury/@ness/damage/loss capability		Low May occur in time, however low expect	1			
Hazard resulting in minor injury retreatment/minor lost time or slig	equiring first aid ht damage					
 A minor loss event to the individe organisation 	an or the					

final structure

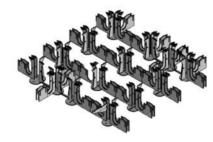




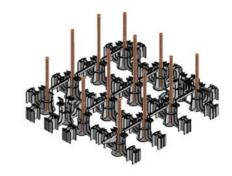




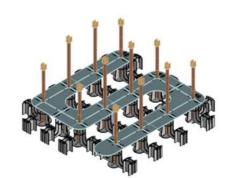


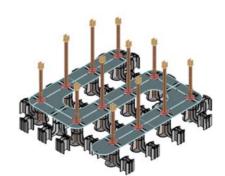


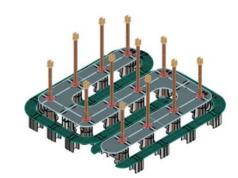


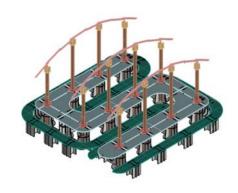












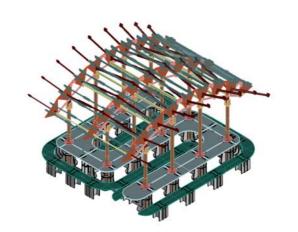


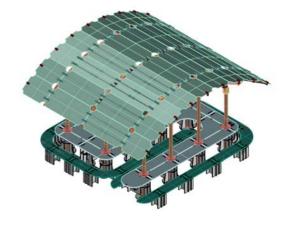














Gabrielle D'Errico | Sci-Fi Vernaculars | Inside/Out | Projects 03: CIAD5001



NORTH WEST INHABITED ELEVATION

SCALE: 1:50







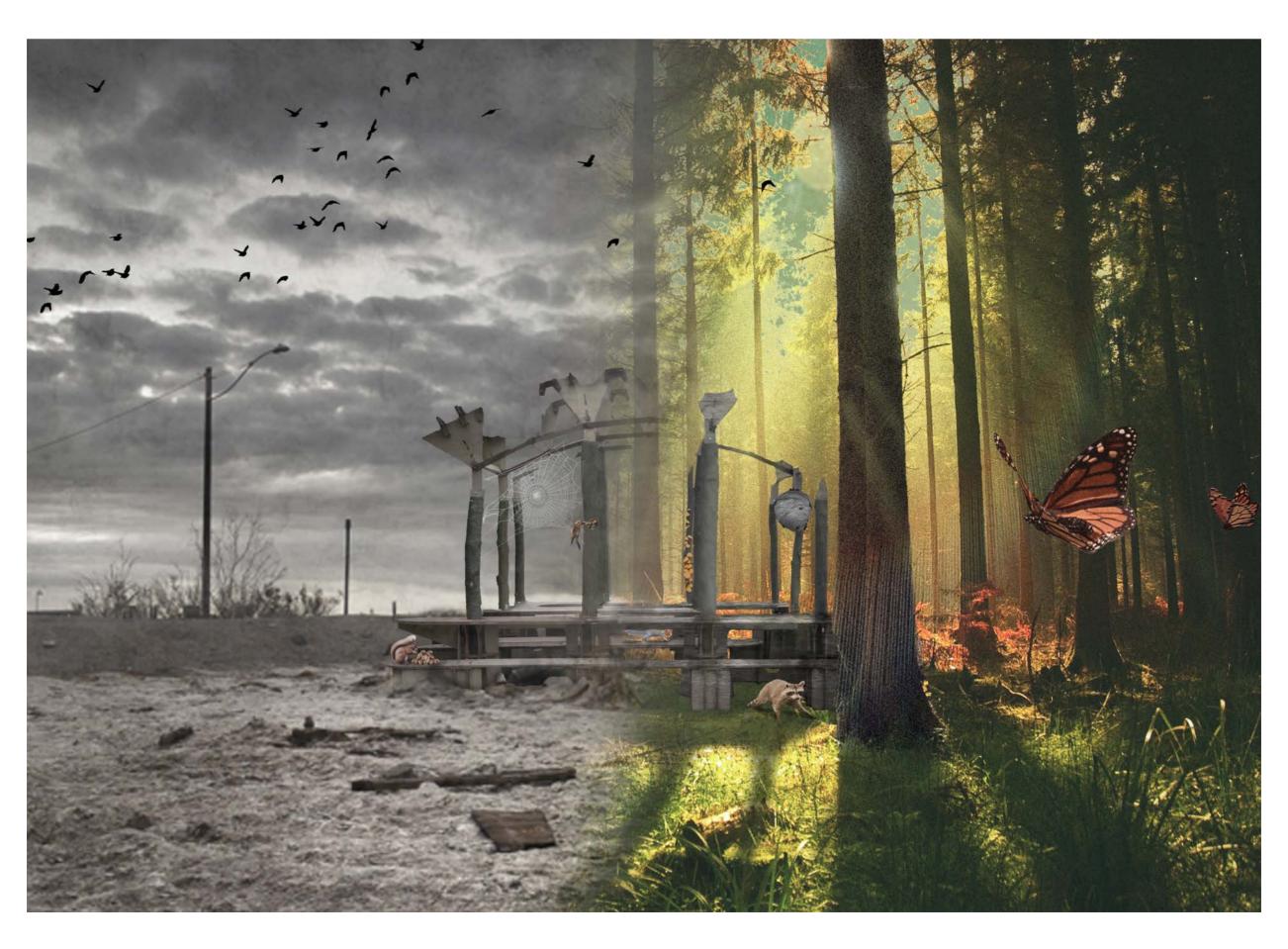


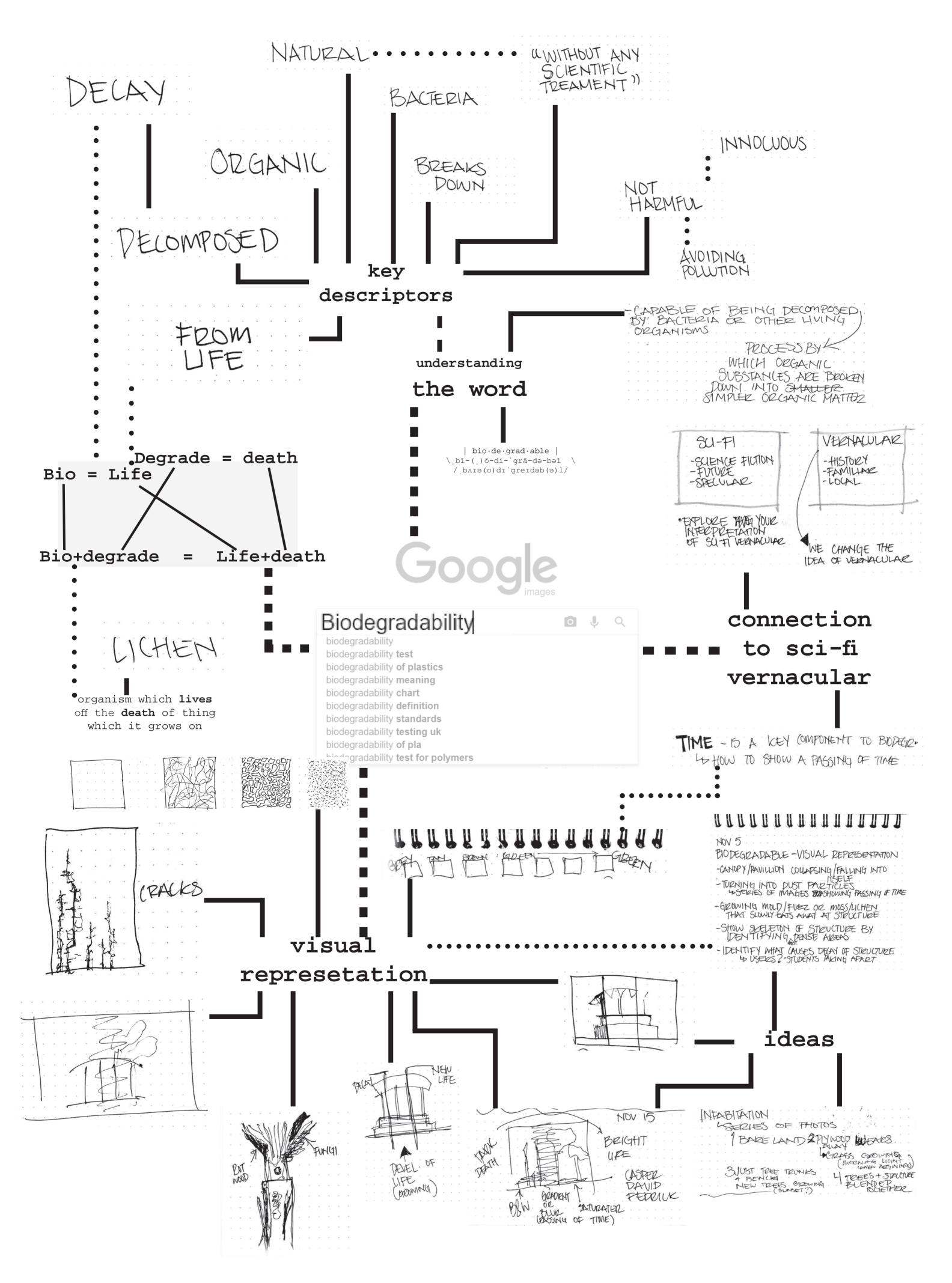






Phase 2: Biodegradability







biodegradable colour analysis

an important aspect to any visual piece- is colour.to create the most accurate narrative for biodegradablility i must investigate from other references what colours are used to communicate the life & death of biodegradadation.



photo mood prep





































