

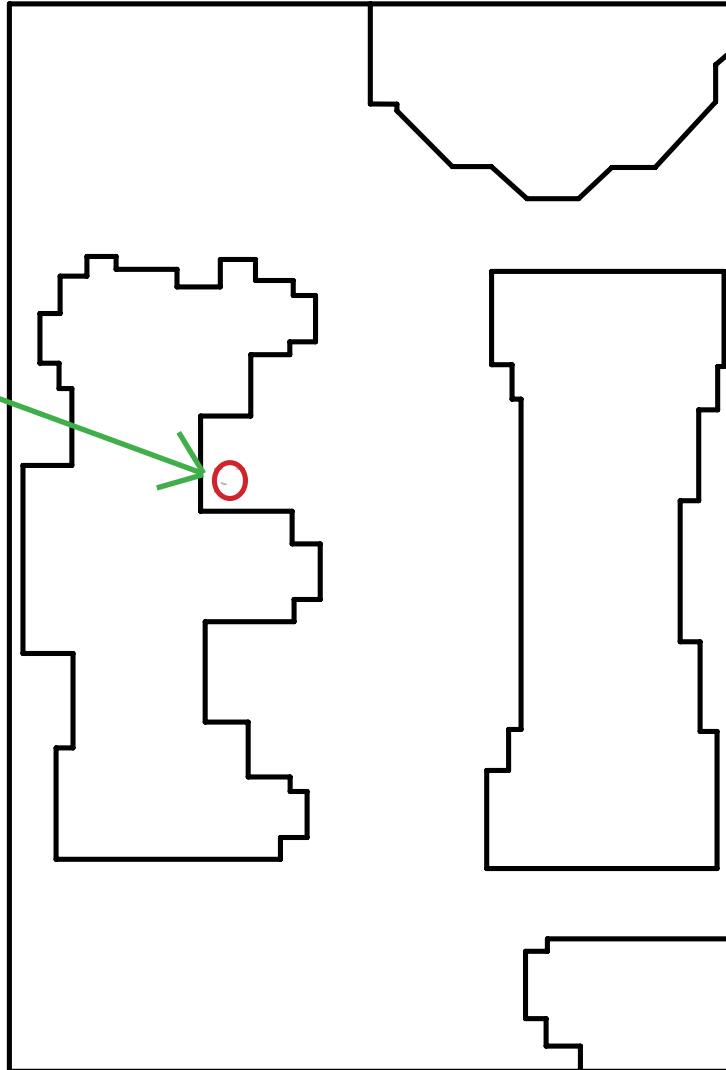
AYOTUNDE OGUNMOYERO

ARCH 633

ANNUAL COMFORT MAP

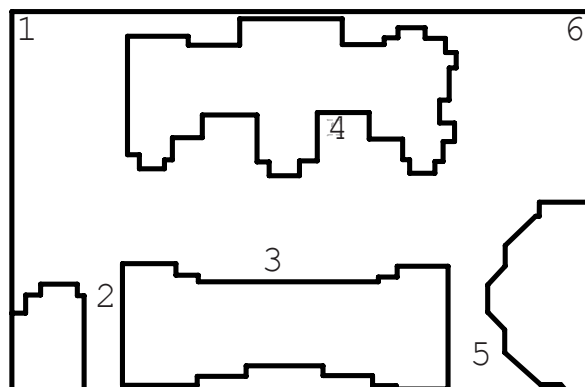
LOCATION: HOUSTON HALL

MOST COMFORTABLE  
LOCATION I.E BEST  
SPOT TO LOCATE THE  
OUTDOOR SEATS



**WHAT WAS THE THINKING PROCESS TO FIND THE BEST LOCATION?**

I picked 6 very different spots and ran simulations to find out out which spot was more comfortable.



### **WHAT IS THE DIFFERENCE BETWEEN BEST AND WORST LOCATION?**

The best location had a comfort level of 40.97% with heat stress of 3.11% and cold stress of 34.66% while the worst location had a comfort level of 36.75% with a heat stress of 11.993% and cold stress of 32.98%. this shows that the worst location (location 6) has significantly more heat than the best (location 4) due to the shading provided by the buildings in location 4.

### **WHAT ARE THE EFFECTIVE PARAMETERS THAT MAKES THE BEST LOCATION PERFORM BETTER THAN OTHER SPOTS?**

The key parameter is less radiation. There is a lot of shading in the best location provided by that building around it which reduces the surface temperature. There is also adequate amounts of wind that cools the spot on hot days.

### **WHAT ARE THE MAIN LIMITATIONS OF THE CURRENT SIMULATION METHOD FOR MY STUDY?**

Wind speed and surface materials of the area are not accounted for but they are both important to the comfort of a person in that space.