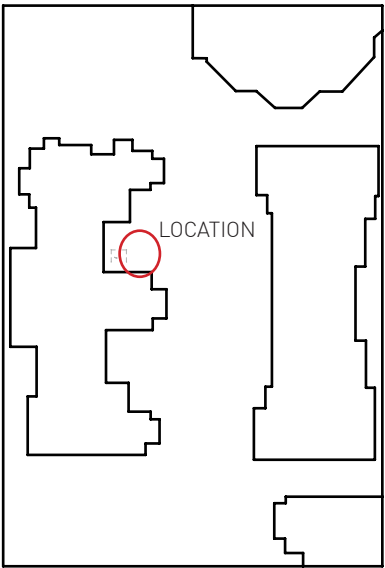
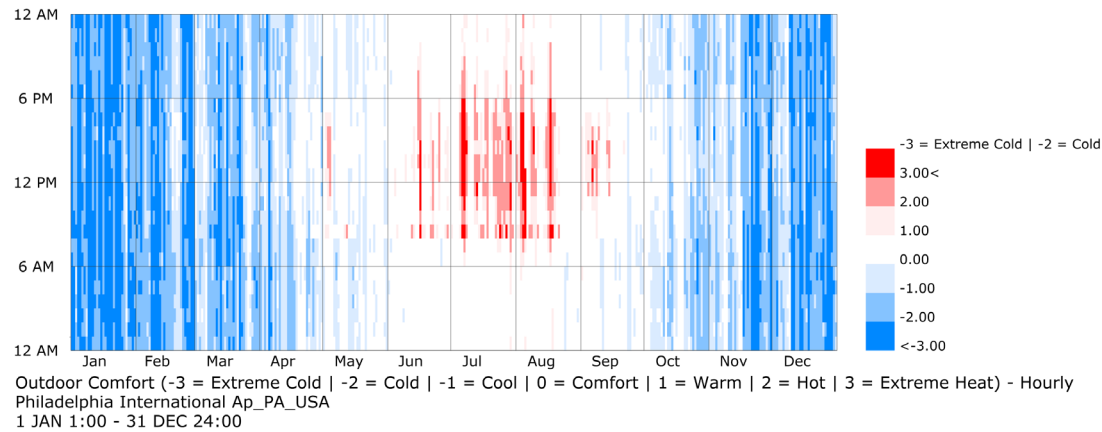


AYOTUNDE OGUNMOYERO
ARCH 633
OUTDOOR COMFORT SIMULATION

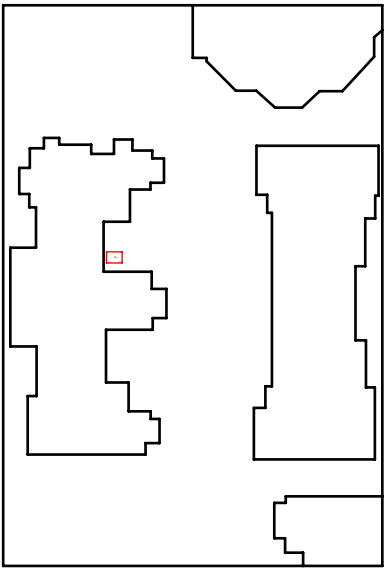
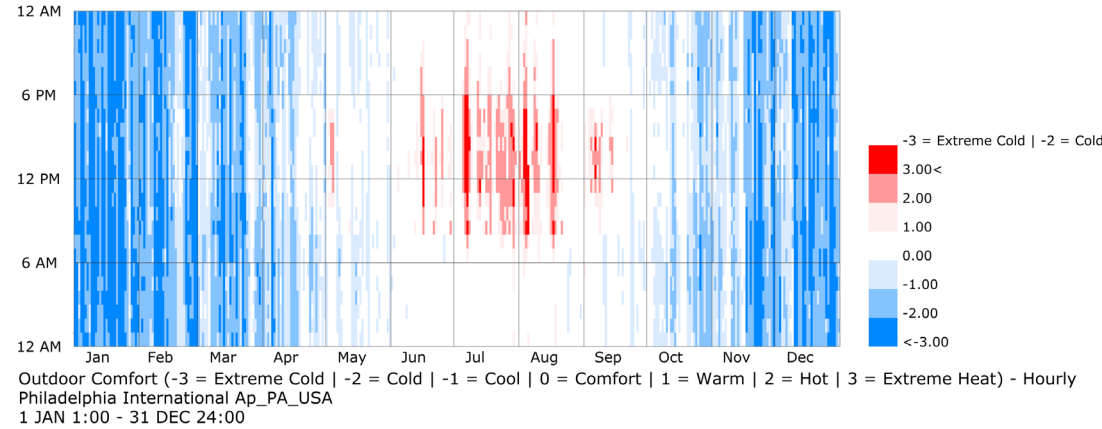
LOCATION: HOUSTON HALL

SIMULATION 1: NO INTERVENTION

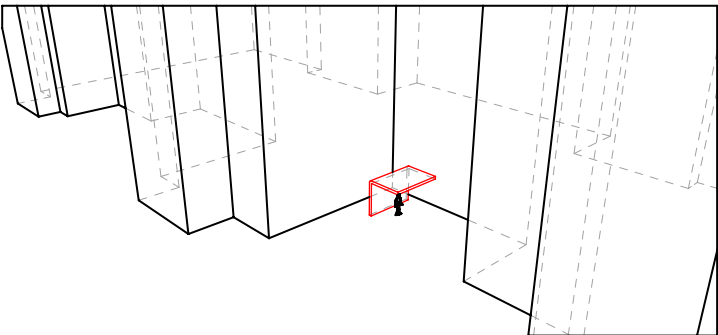
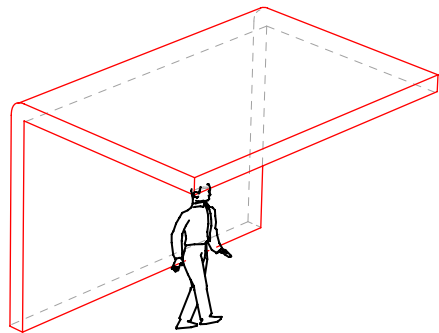


Comfortable: 40.83%; Short period comf.: 21.21%; Heat stress: 3.28%; Cold stress: 34.68%

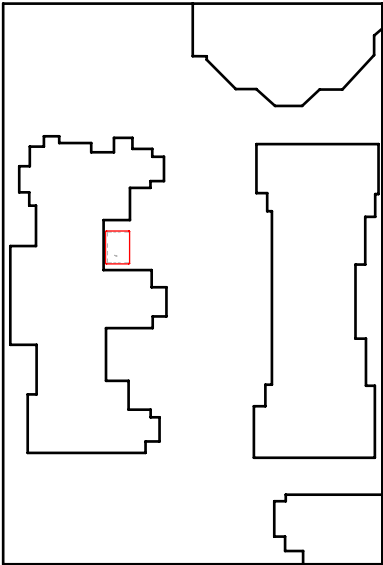
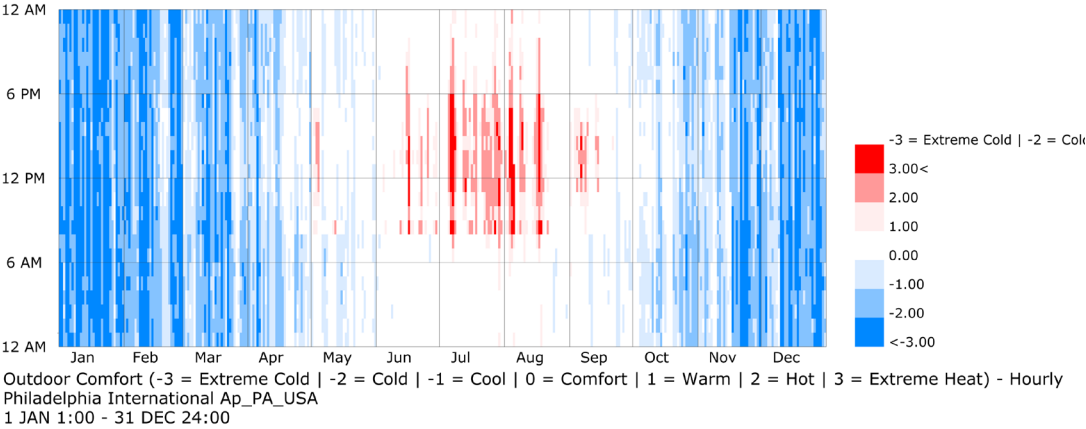
SIMULATION 2: FIRST INTERVENTION



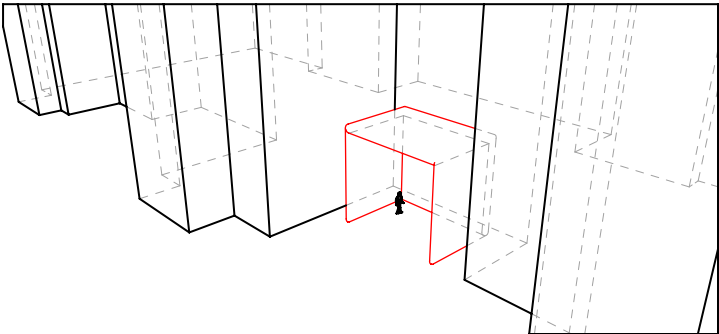
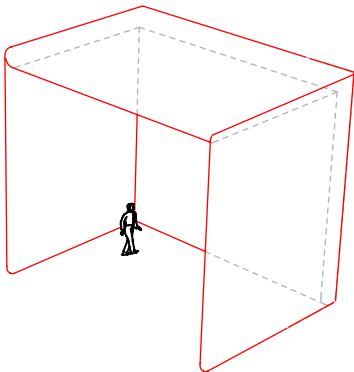
Comfortable: 41.03%; Short period comf.: 21.24%; Heat stress: 3.25%; Cold stress: 34.47%



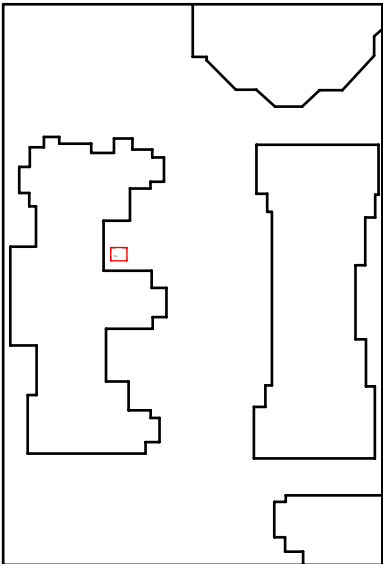
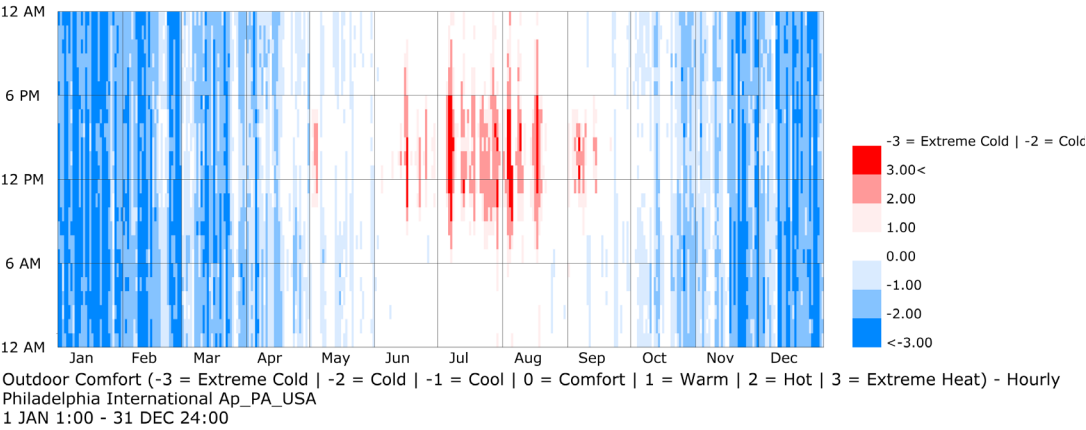
SIMULATION 3: SECOND INTERVENTION



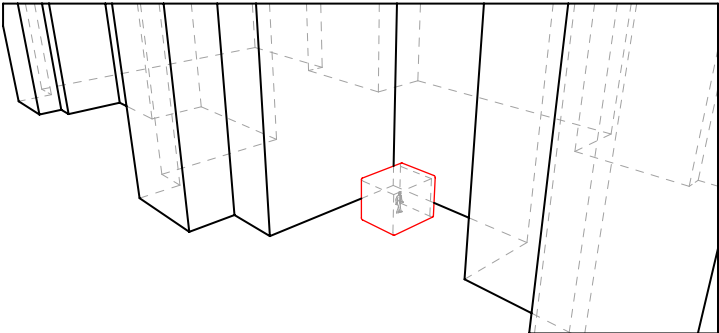
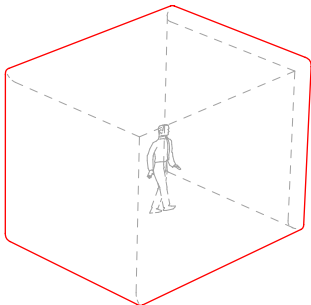
Comfortable: 40.9%; Short period conf.: 21.26%; Heat stress: 3.31%; Cold stress: 34.53%



SIMULATION 4: THIRD INTERVENTION



Comfortable: 41.28%; Short period conf.: 21.24%; Heat stress: 3.14%; Cold stress: 34.34%



Can you achieve comfort for %100 of the time?

No. 100% is unrealistic based on the many variables that contribute to the outdoor comfort.

If not what is the highest possible percentage of comfortable hours that you can achieve with passive design strategies?

41.28%