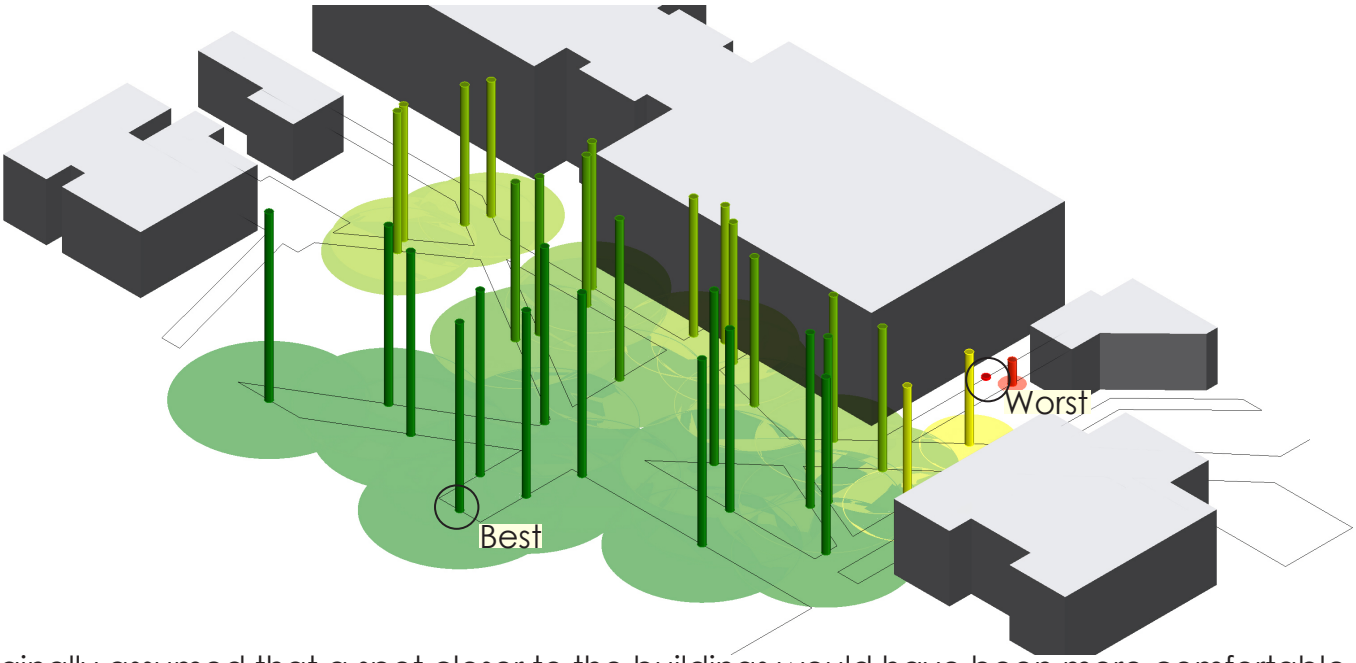
Ellison Turpin
Assignment 05 - Annual Comfort Map

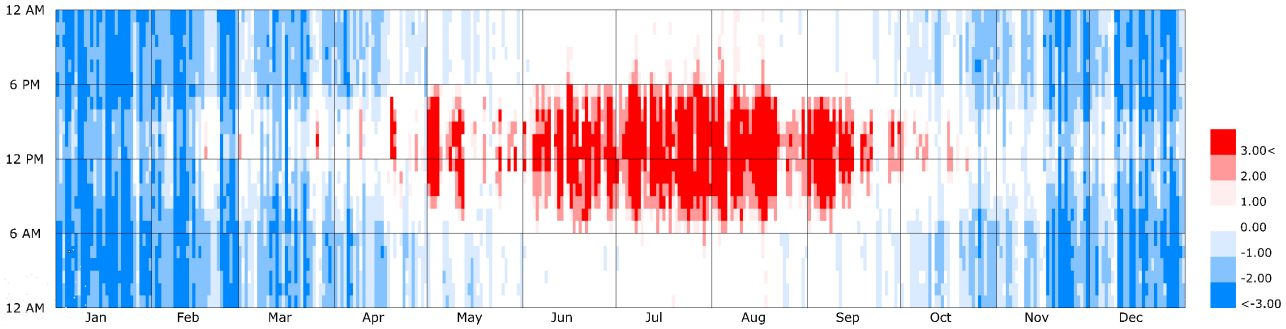
ARCH 631
Environmental Systems I



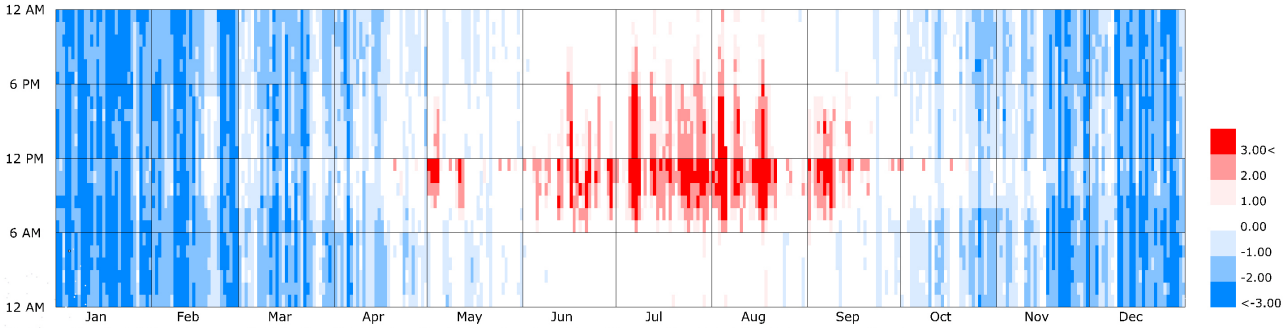
I originally assumed that a spot closer to the buildings would have been more comfortable as blockers of extreme heat; however, the best location was the spot furthest from the buildings. This further location allowed for more heat gain during the summer months, but was more comfortable in the cooler months of the year.

This current simulation does not take in to account the trees that line these pathways nor the materials of the paths which each have different thermal mass qualities. Sitting close to a large mass that absorbs heat throughout the day, may actually work in favor of the spot closer to the buildings as a radiative heat source.

Best



Worst



Outdoor Comfort (-3 = Extreme Cold | -2 = Cold | -1 = Cool | 0 = Comfort | 1 = Warm | 2 = Hot | 3 = Extreme Heat) - Hourly
Philadelphia International Ap_PA_USA
1 JAN 1:00 - 31 DEC 24:00