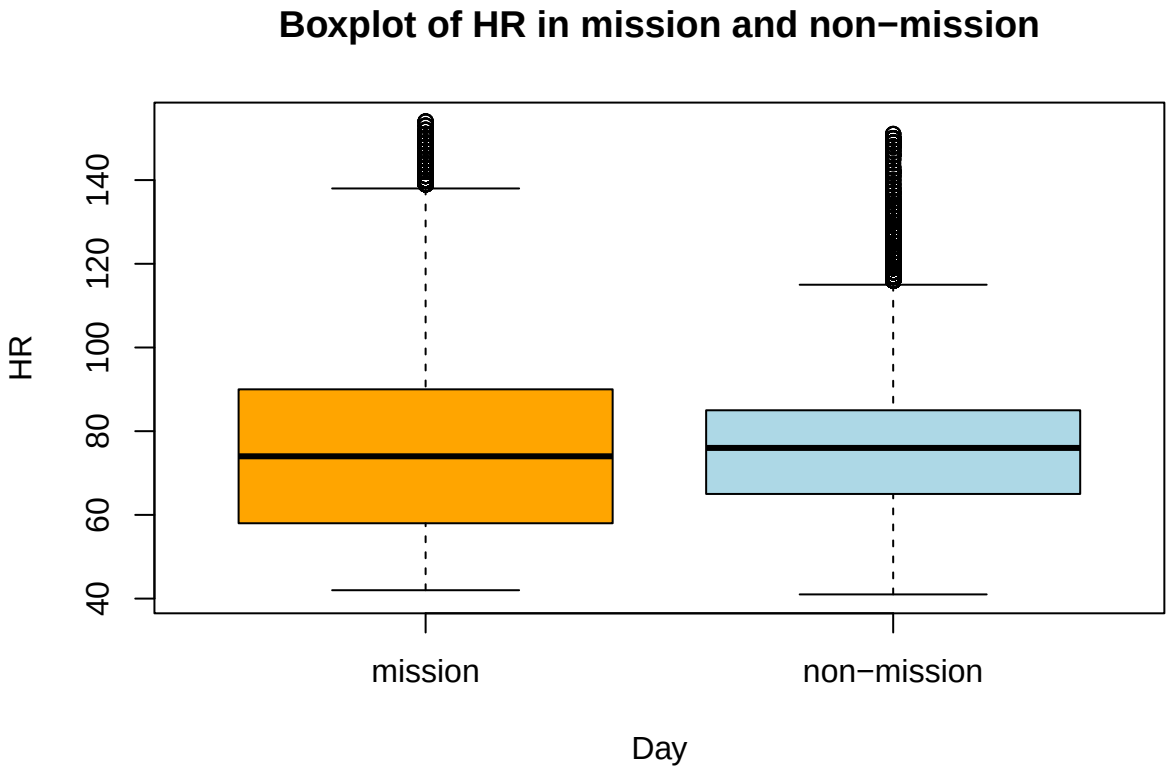
HW4 Hints - Lesson 5

COSC6323/Spring 2024

2024-02-16

Q1 unpaired t-test

```
##
##  Welch Two Sample t-test
##
## data:  mis_HR and non_HR
## t = 1.725, df = 593820, p-value = 0.08454
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.008146041  0.127725933
## sample estimates:
## mean of x mean of y
##  75.14543  75.08564
```



Q2 - paired t-test

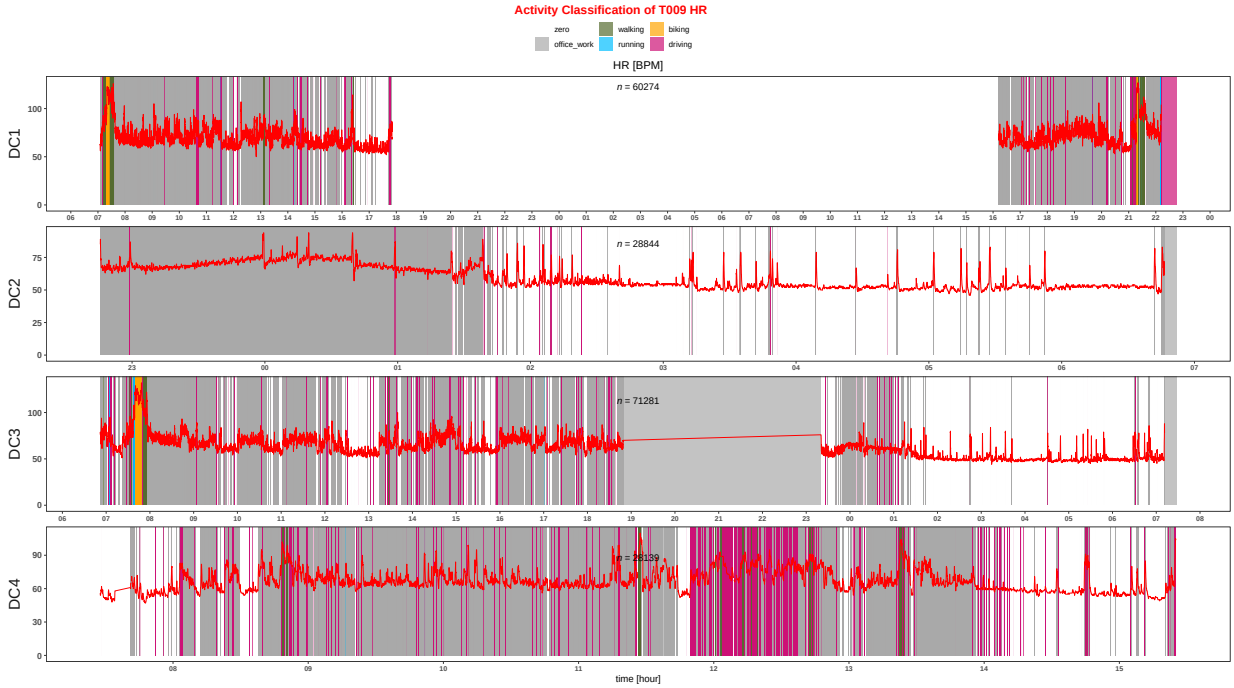
Q2 - Paired test results

```
##
##  Paired t-test
##
## data:  missions_HR and non_missions_HR
## t = 0.30722, df = 11, p-value = 0.7644
## alternative hypothesis: true mean difference is not equal to 0
## 95 percent confidence interval:
##  -3.767845  4.990359
## sample estimates:
## mean difference
##       0.6112569
```

Table 1: Paired t-test

	Activity	pre_mis_p	df	CI
df	HR	0.764	11	-3.768 - 4.99

Q3 - Plots and Proportion test



Q3 - proportion test

```
## `summarise()` has grouped output by 'Day'. You can override using the `.groups`
## argument.
```

2-sample test for equality of proportions with continuity correction

```
##
##  2-sample test for equality of proportions with continuity correction
##
## data:  c(mission_prop * sum(proportion_mission$n), non_mission_prop * sum(proportion_nonMission$n)) c
## X-squared = 1659.7, df = 1, p-value < 2.2e-16
## alternative hypothesis: two.sided
## 95 percent confidence interval:
##  0.1365081 0.1434919
## sample estimates:
## prop 1 prop 2
##   0.98   0.84
```