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In [ ]: #Librarries
import pandas as pd
import numpy as np
import seaborn as sns #visualisation
import matplotlib.pyplot as plt #visualisation
%matplotlib inline
sns.set(color_codes=True)

#%pip install statannot
from statannot import add_stat_annotation

#%pip install utils
from utils import * # for some functions used in barplotify and annotation

%pip install statannotations

from statannotations.Annotator import Annotator

from scipy import stats
from scikit_posthocs import posthoc_dunn
from scikit_posthocs import posthoc_tukey

# calculate the spearman's correlation between two variables
from numpy.random import rand
from numpy.random import seed

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In [ ]: df_ch= pd.read_csv("Christian_DEFAULT_RLH.csv")
df_dan= pd.read_csv("Daniel__DEFAULT_NYF.csv")

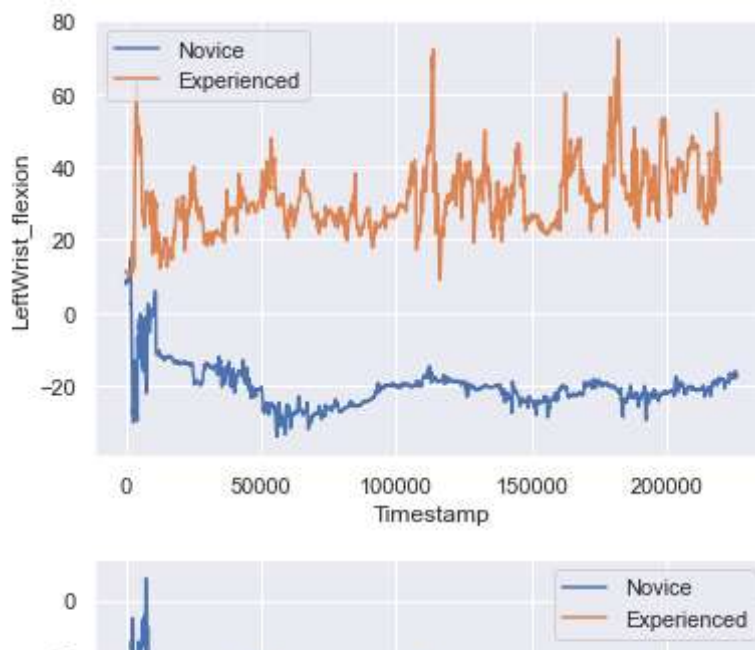
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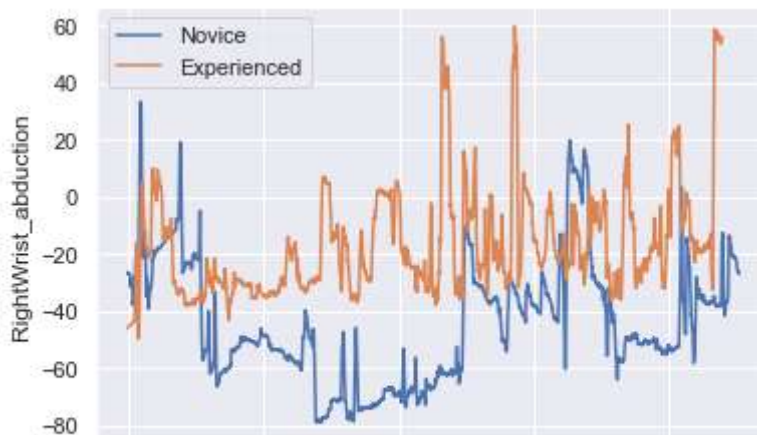
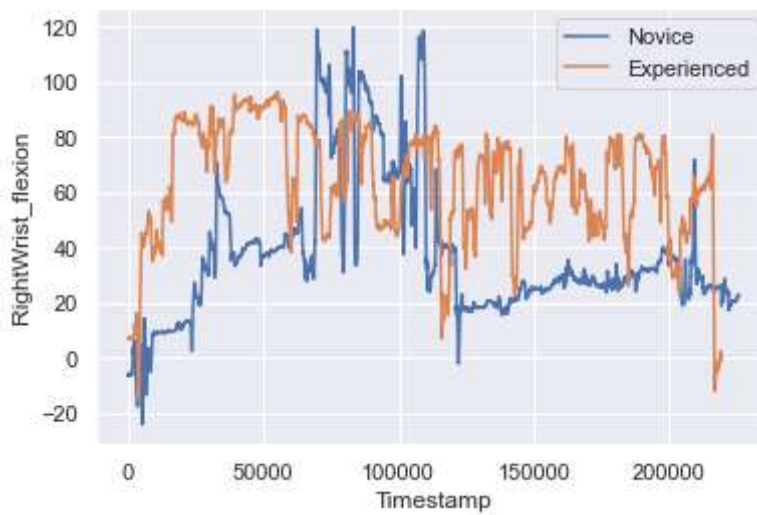
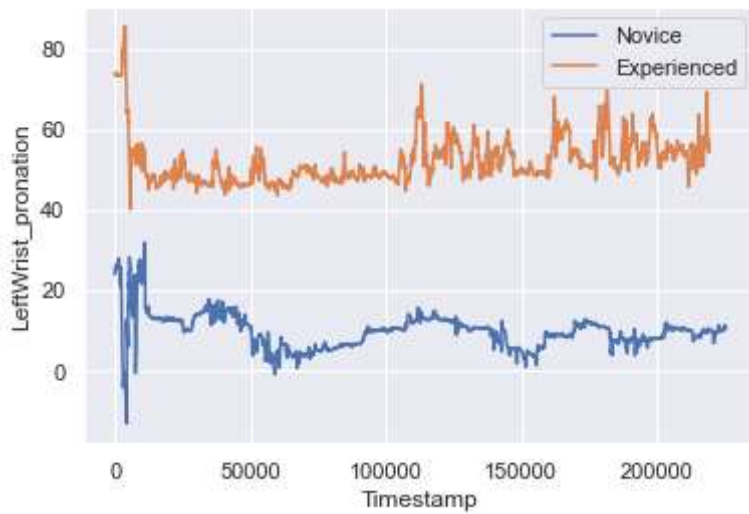
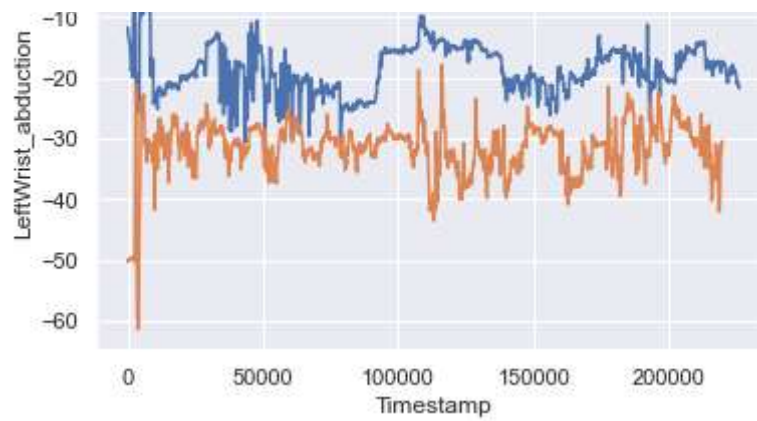
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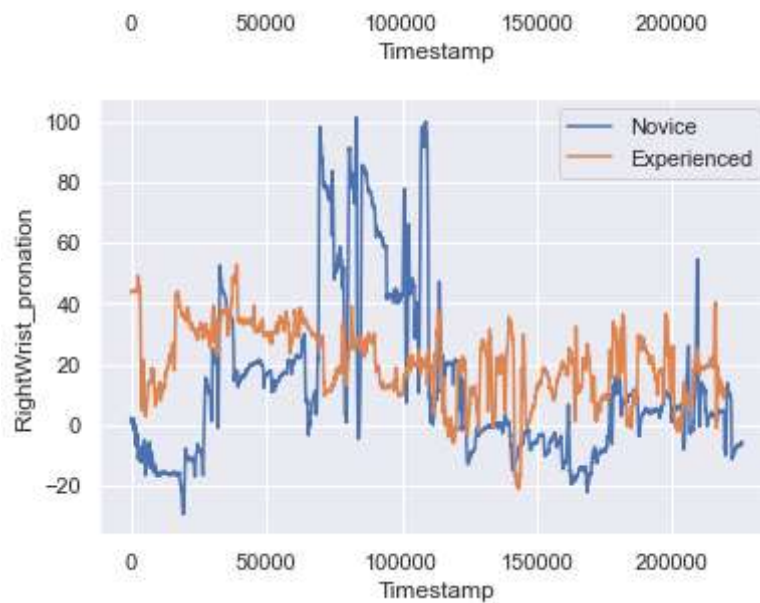
In [51]: for i in [col for col in df_ch if "Wrist" in col]:

    sns.lineplot( y=df_ch[i], x= df_ch["Timestamp"], label= "Novice")
    sns.lineplot( y=df_dan[i], x= df_ch["Timestamp"] , label= "Experience")
    plt.show()

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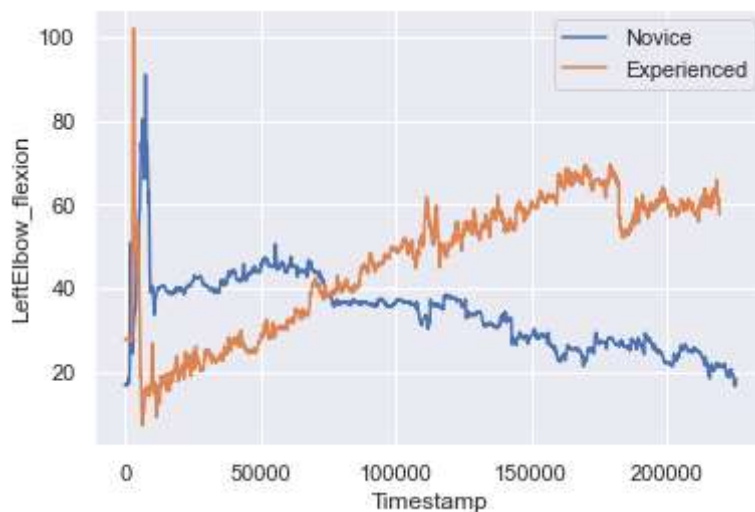


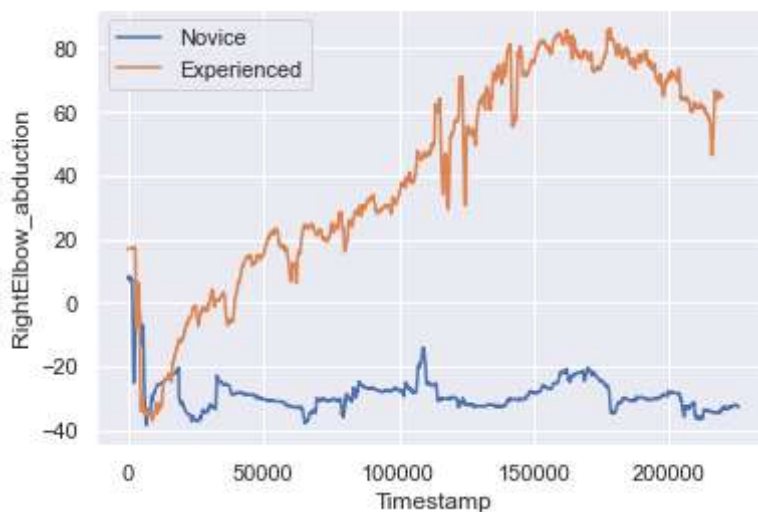
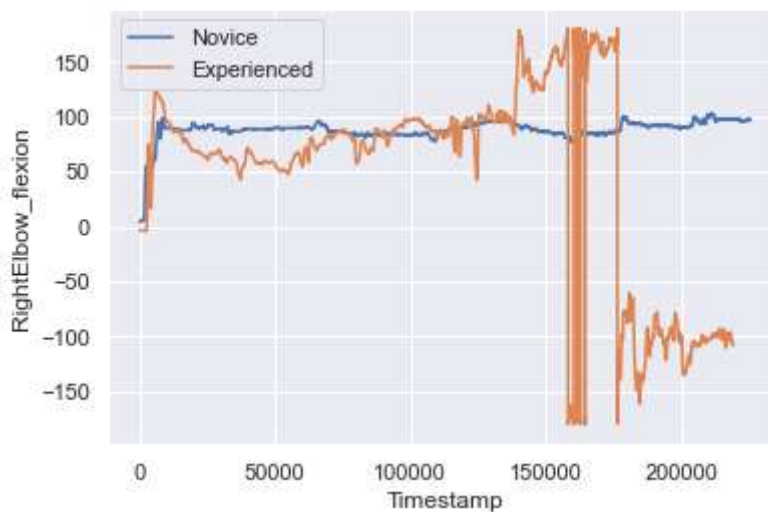
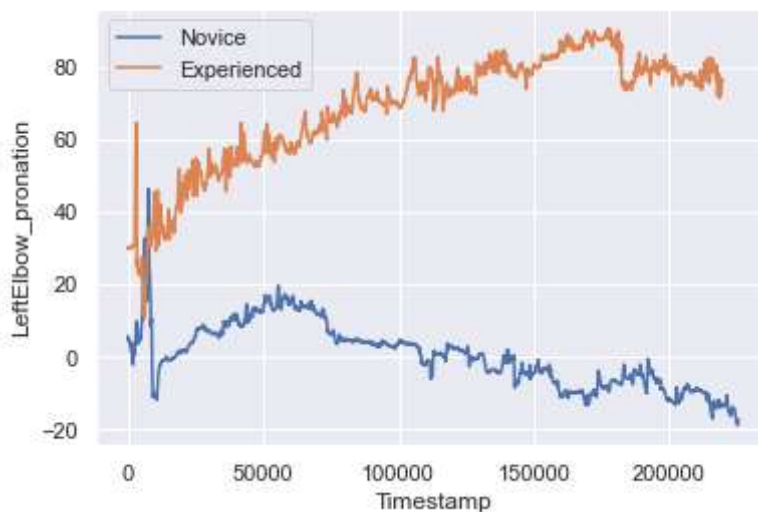


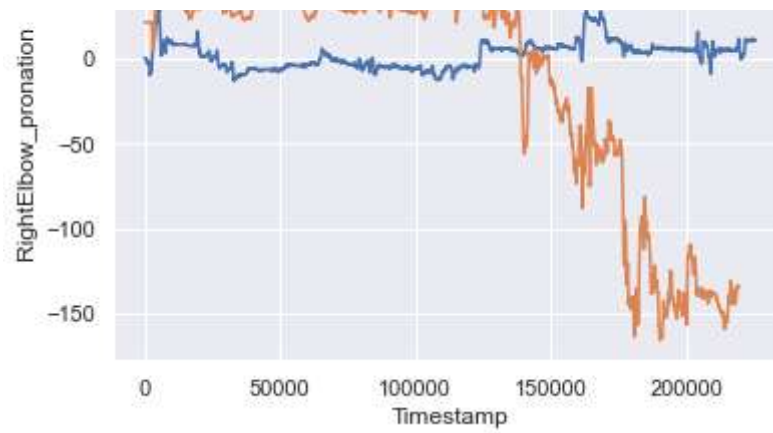
Variables

- 1- percentage of time when the wrist height was lower than the elbow height
- (PTW) 2- the height of the elbow/wrist relative to the armrest

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In [50]: for i in [col for col in df_ch if "Elbow" in col]:
          sns.lineplot( y=df_ch[i], x= df_ch["Timestamp"], label= "Novice")
          sns.lineplot( y=df_dan[i], x= df_ch["Timestamp"] , label= "Experience")
          plt.show()
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In []:

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