

In []:

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#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

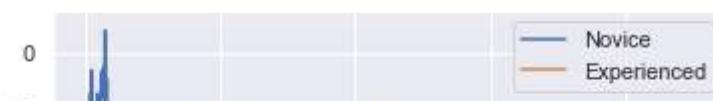
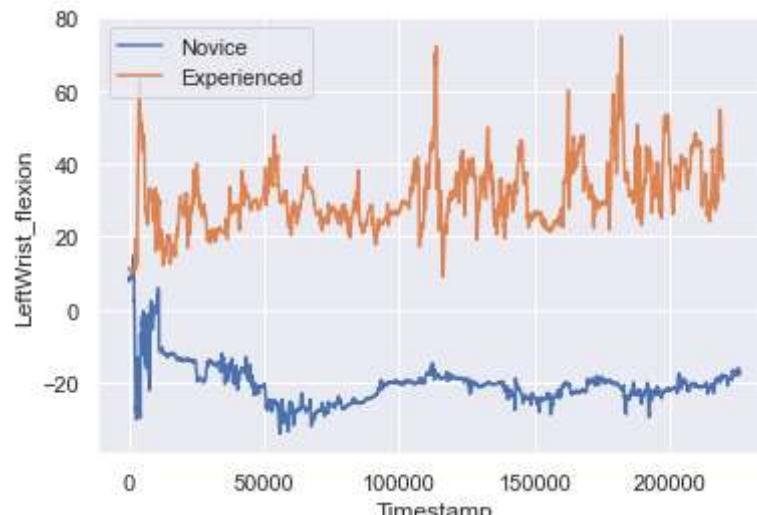
# calculate the spearman's correlation between two variables
from numpy.random import rand
from numpy.random import seed
```

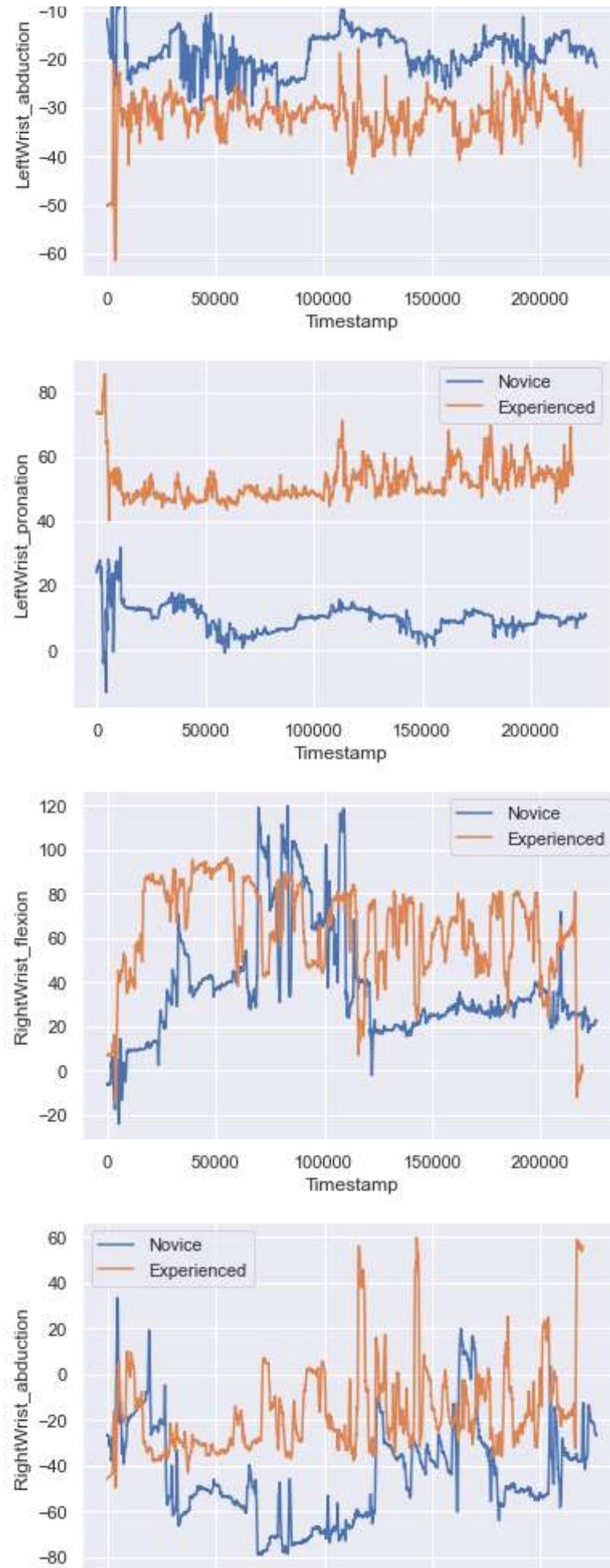
In []:

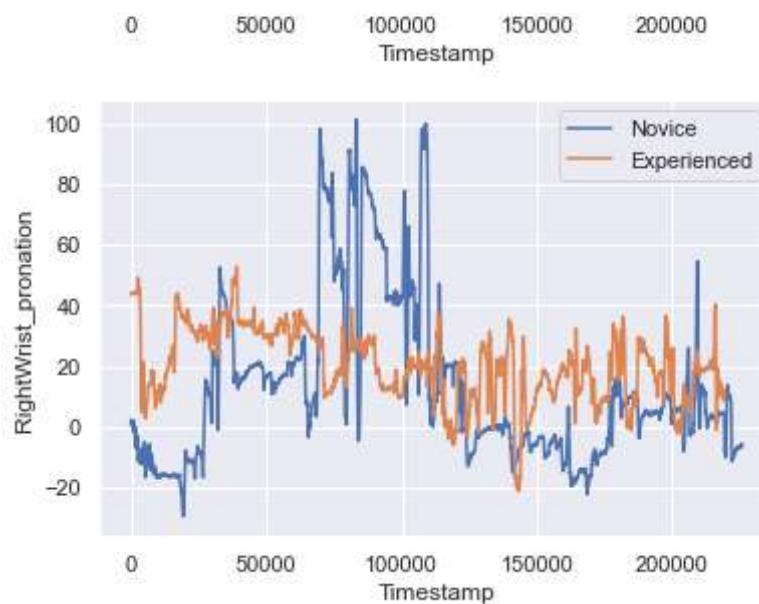
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df_ch= pd.read_csv("Christian_DEFAULT_RLH.csv")
df_dan= pd.read_csv("Daniel__DEFAULT_NYF.csv")
```

In [51]:

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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()
```





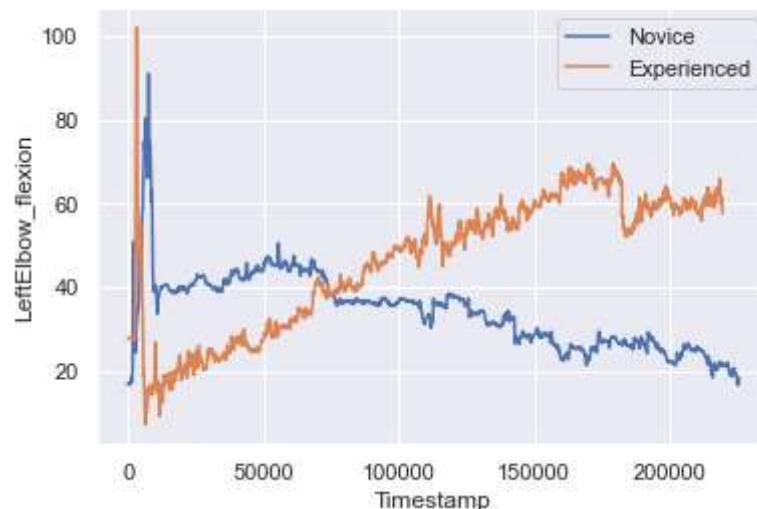


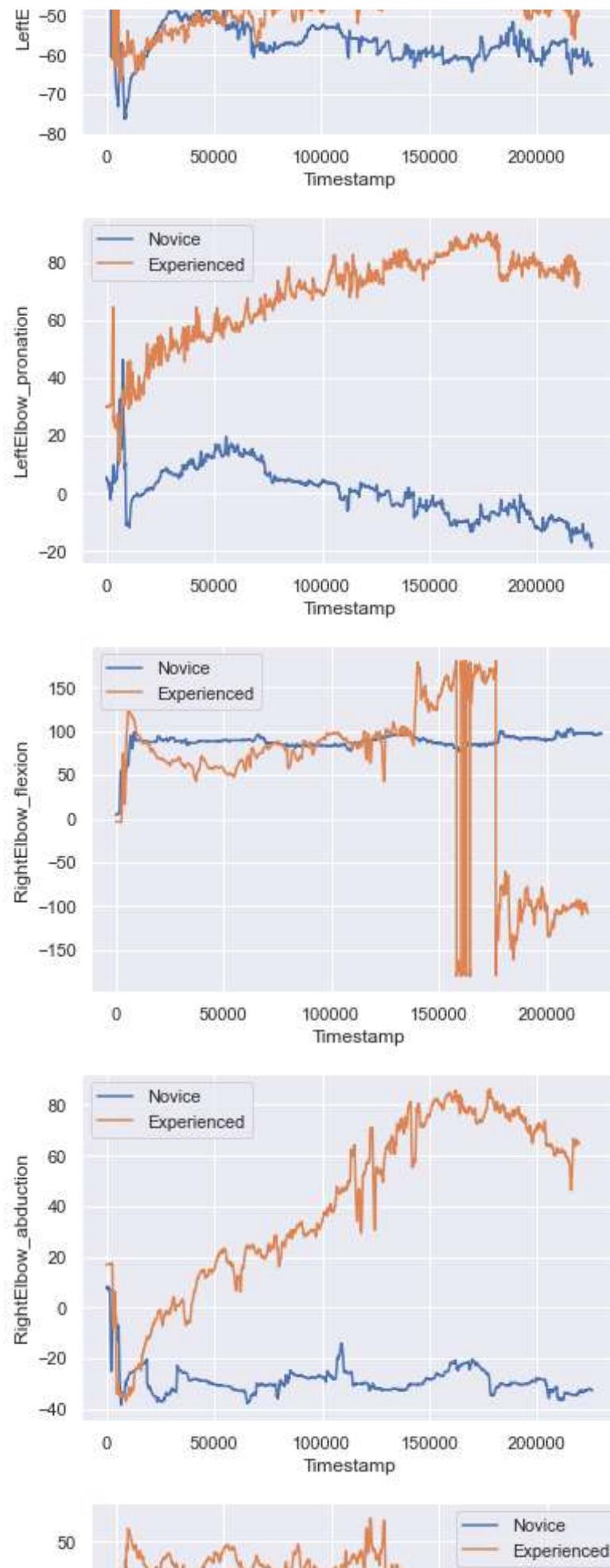
Variables

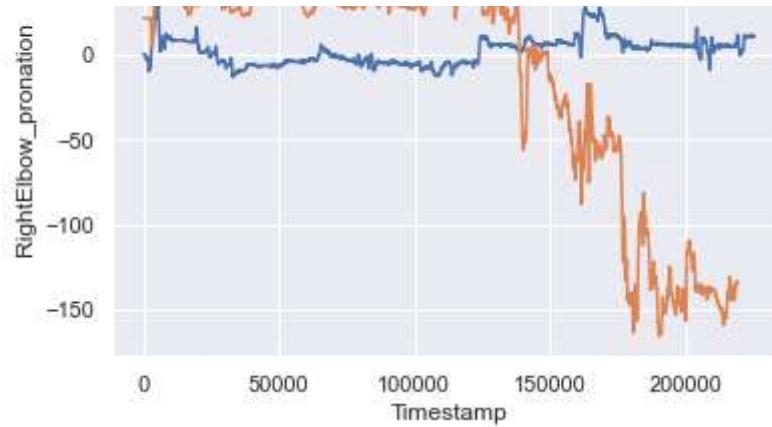
- 1- percentage of time when the wrist height was lower than the elbow height (PTW)
- 2- the height of the elbow/wrist relative to the armrest

In [50]:

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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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