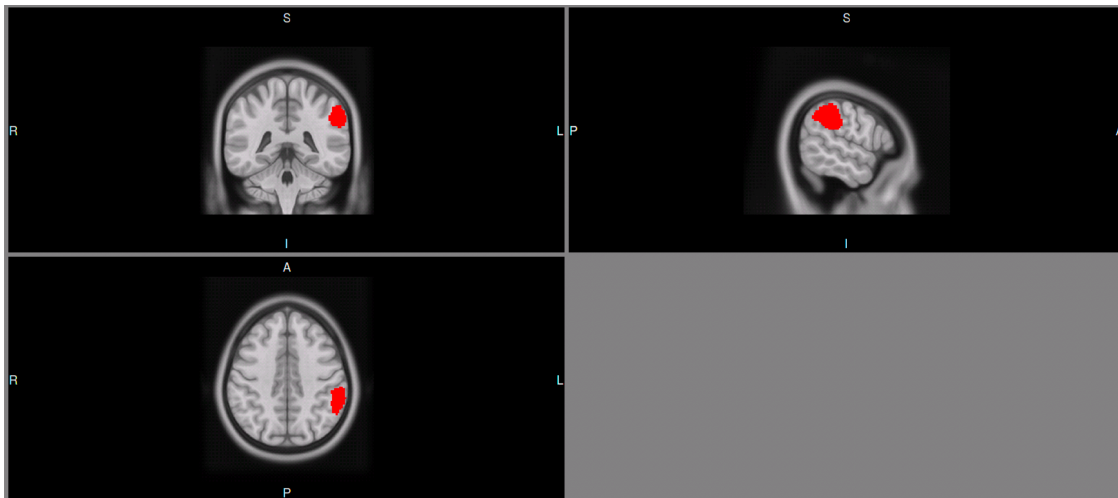


# SeedMaps\_NetworkandROIextract

February 7, 2020

## 0.1 Posterior Saliience Seed ROI Mask

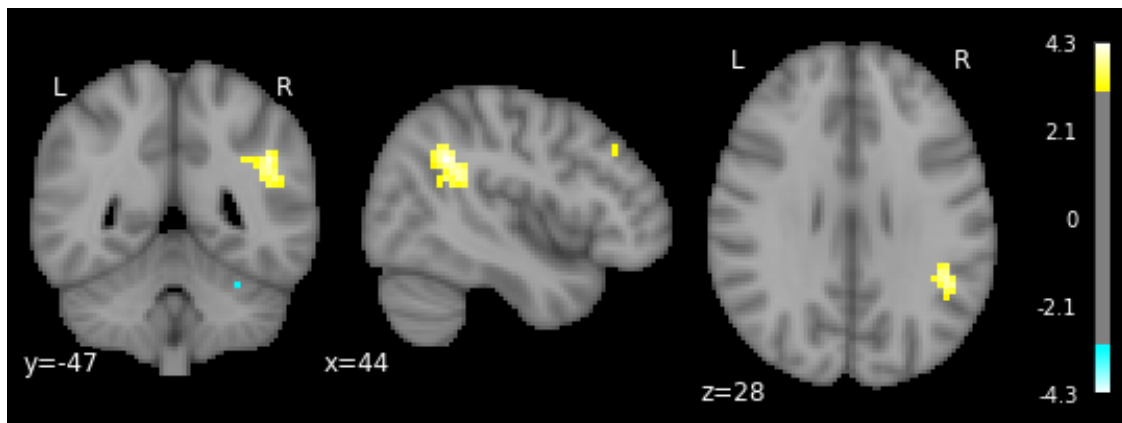


### 0.1.1 Significant group level cluster for Posterior Saliience seed

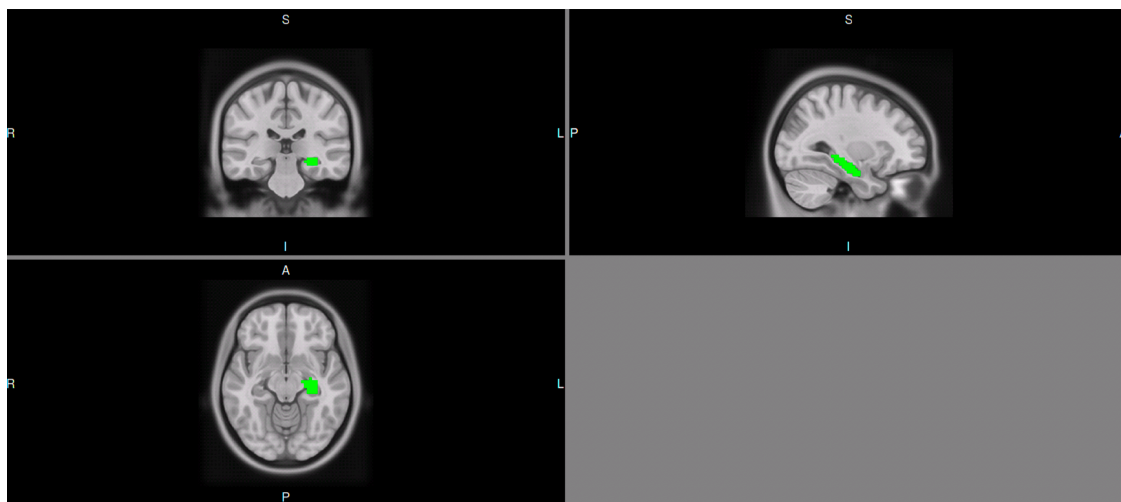
```
[6]: # Inital uncorrected p < 0.001, FWEc = 50
plt.figure(figsize=(12, 10))
plotting.plot_stat_map(tmap1, black_bg=True,
                        draw_cross=False, threshold=3.12)
```

```
[6]: <nilearn.plotting.displays.OrthoSlicer at 0x1c235f2ad0>
```

```
<Figure size 864x720 with 0 Axes>
```



## 0.2 Left Hippocampus Seed ROI mask

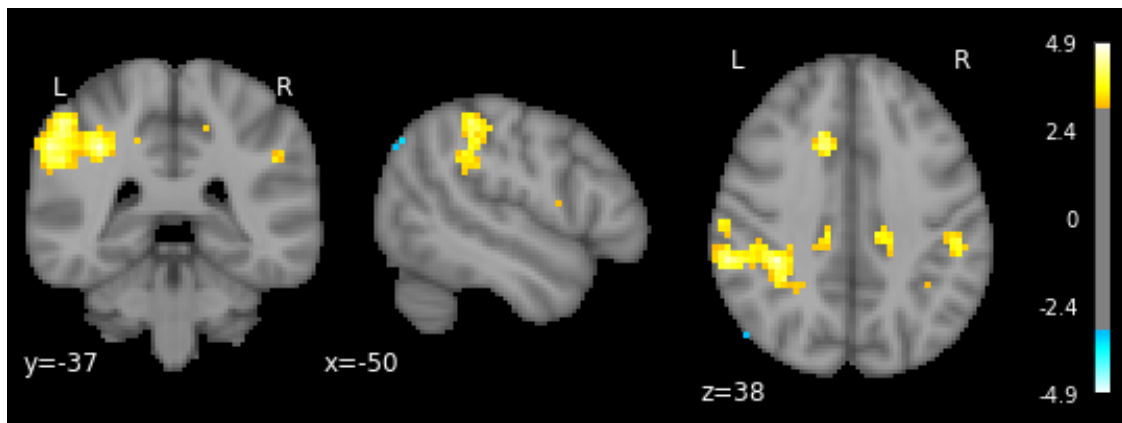


### 0.2.1 Significant group level cluster for L Hippocampus seed

```
[9]: # Initial uncorrected  $p < 0.001$ , FWEc = 90
plt.figure(figsize=(12, 10))
plotting.plot_stat_map(tmap2, black_bg=True,
                       draw_cross=False, threshold=3.12)
```

```
[9]: <nilearn.plotting.displays.OrthoSlicer at 0x1c237d4b10>
```

```
<Figure size 864x720 with 0 Axes>
```



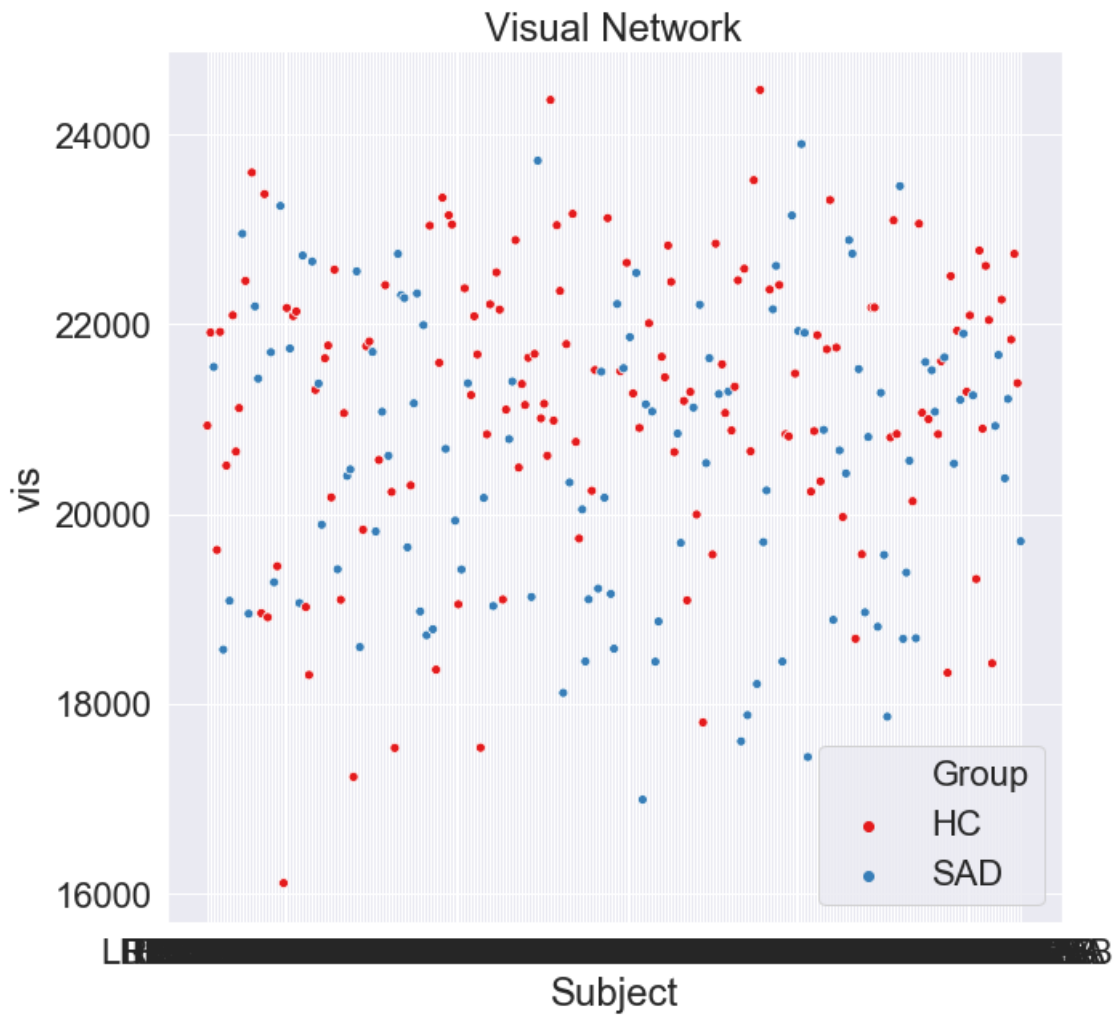
### 0.3 Plot Yeo Network Means

```
[61]: # 142 Controls
      # 116 SAD
      df['Group'].value_counts()
```

```
[61]: HC      141
      SAD      116
      Name: Group, dtype: int64
```

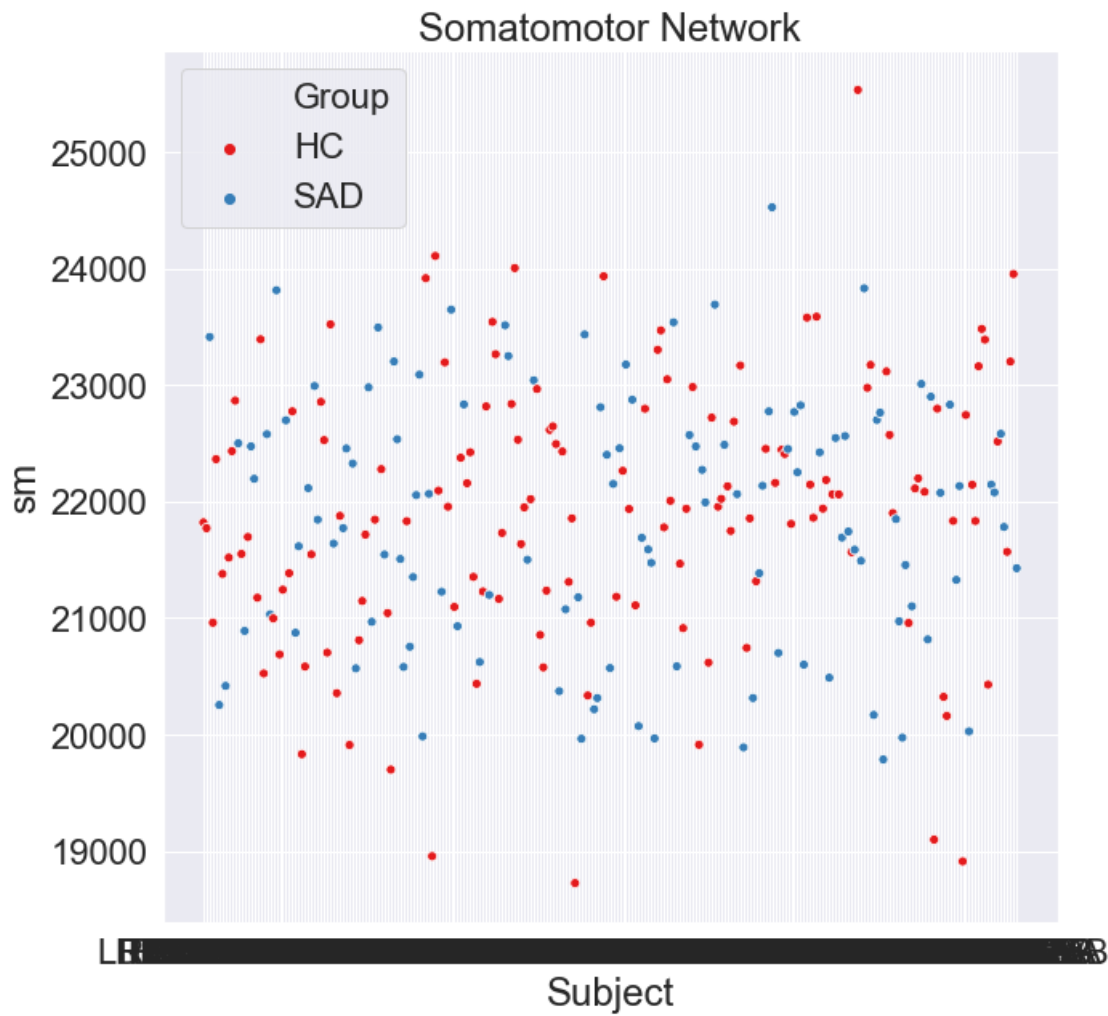
```
[63]: plt.figure(figsize=(10,10))
      sns.scatterplot(x="Subject",y="vis", hue="Group", palette="Set1", data=df2)
      plt.title('Visual Network')
```

```
[63]: Text(0.5, 1.0, 'Visual Network')
```



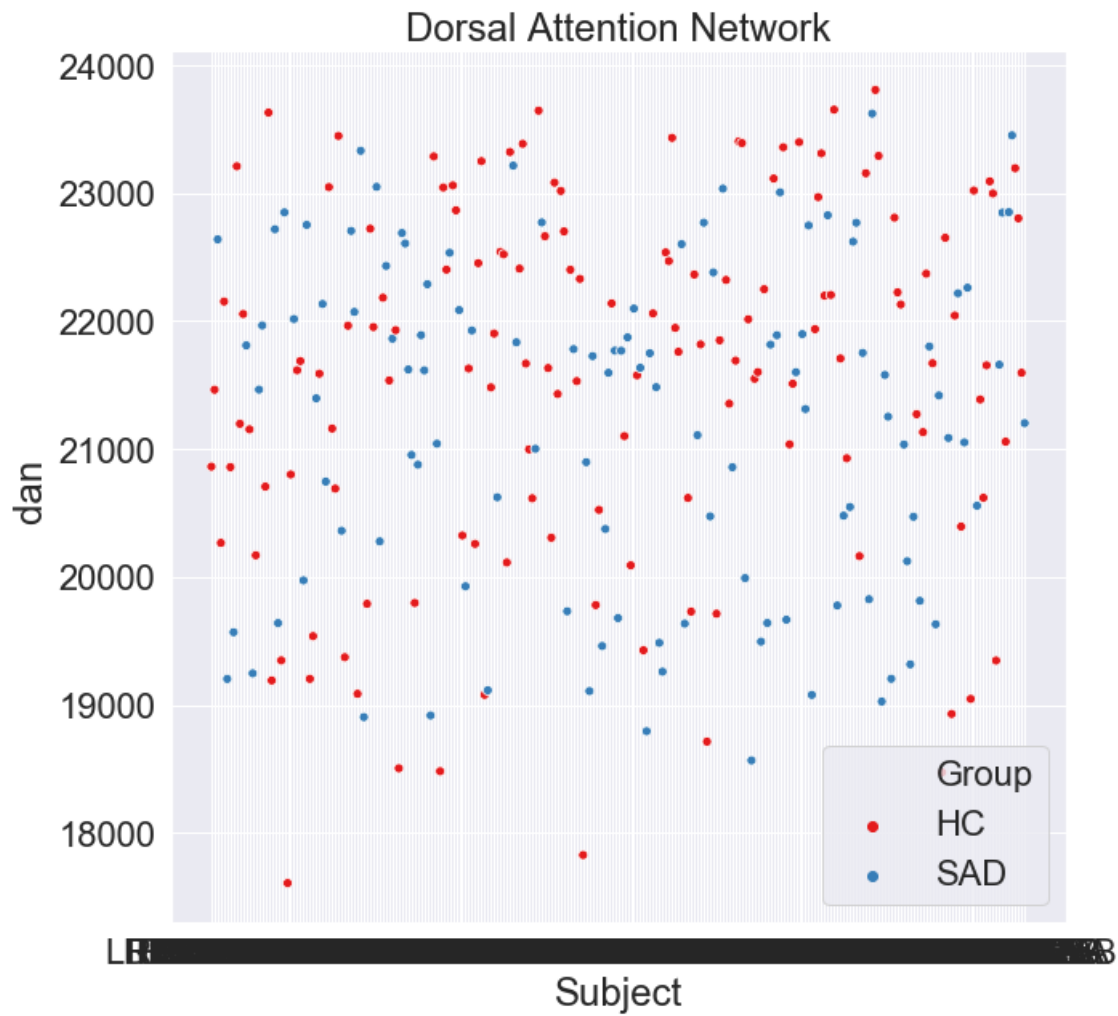
```
[64]: plt.figure(figsize=(10,10))
sns.scatterplot(x="Subject",y="sm", hue="Group", palette="Set1", data=df2)
plt.title('Somatomotor Network')
```

```
[64]: Text(0.5, 1.0, 'Somatomotor Network')
```



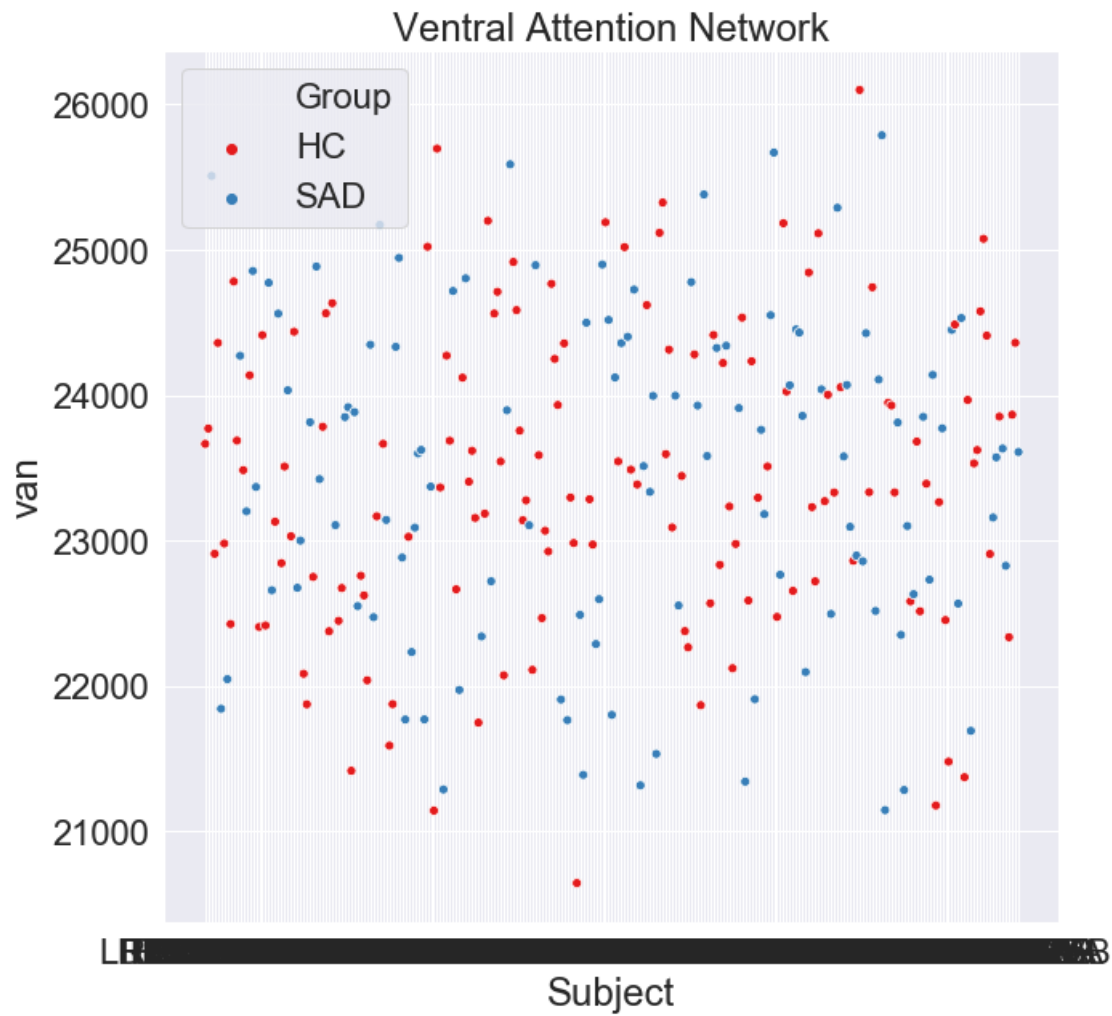
```
[65]: plt.figure(figsize=(10,10))
sns.scatterplot(x="Subject",y="dan ", hue="Group", palette="Set1", data=df2)
plt.title('Dorsal Attention Network')
```

```
[65]: Text(0.5, 1.0, 'Dorsal Attention Network')
```



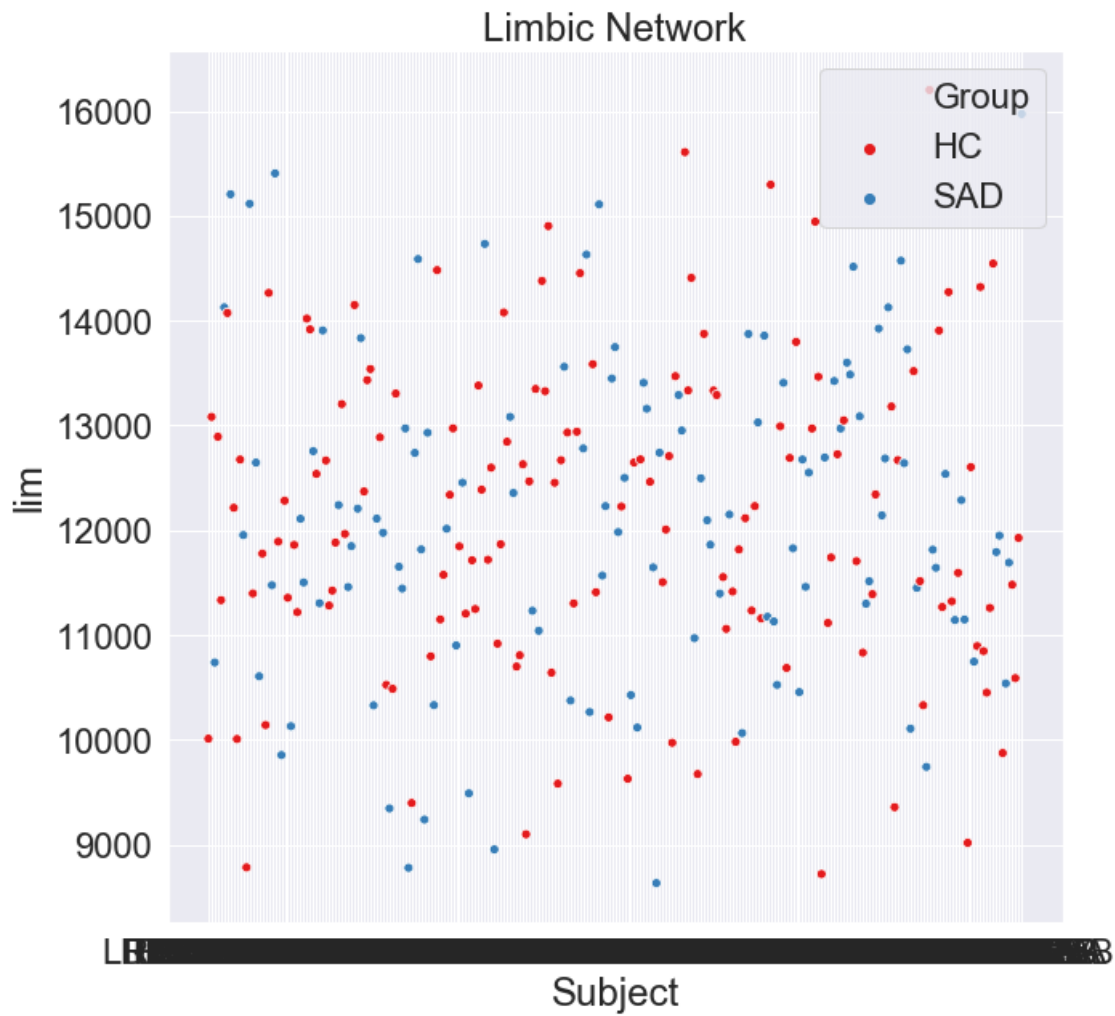
```
[66]: plt.figure(figsize=(10,10))
sns.scatterplot(x="Subject",y="van", hue="Group", palette="Set1", data=df2)
plt.title('Ventral Attention Network')
```

```
[66]: Text(0.5, 1.0, 'Ventral Attention Network')
```



```
[67]: plt.figure(figsize=(10,10))
sns.scatterplot(x="Subject",y="lim", hue="Group", palette="Set1", data=df2)
plt.title('Limbic Network')
```

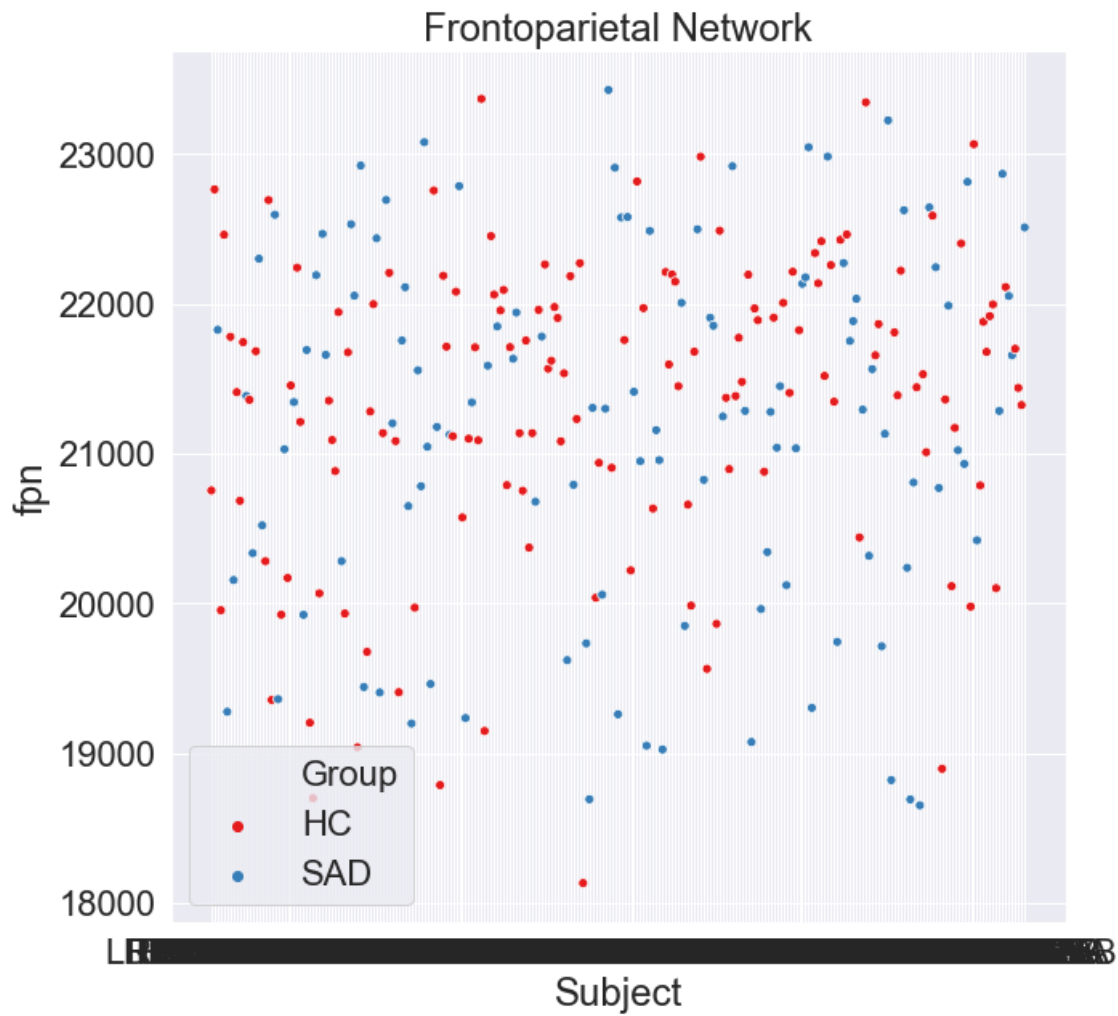
```
[67]: Text(0.5, 1.0, 'Limbic Network')
```



```
[68]: plt.figure(figsize=(10,10))
sns.scatterplot(x="Subject",y="fpn", hue="Group", palette="Set1", data=df2)
plt.title('Frontoparietal Network')
```

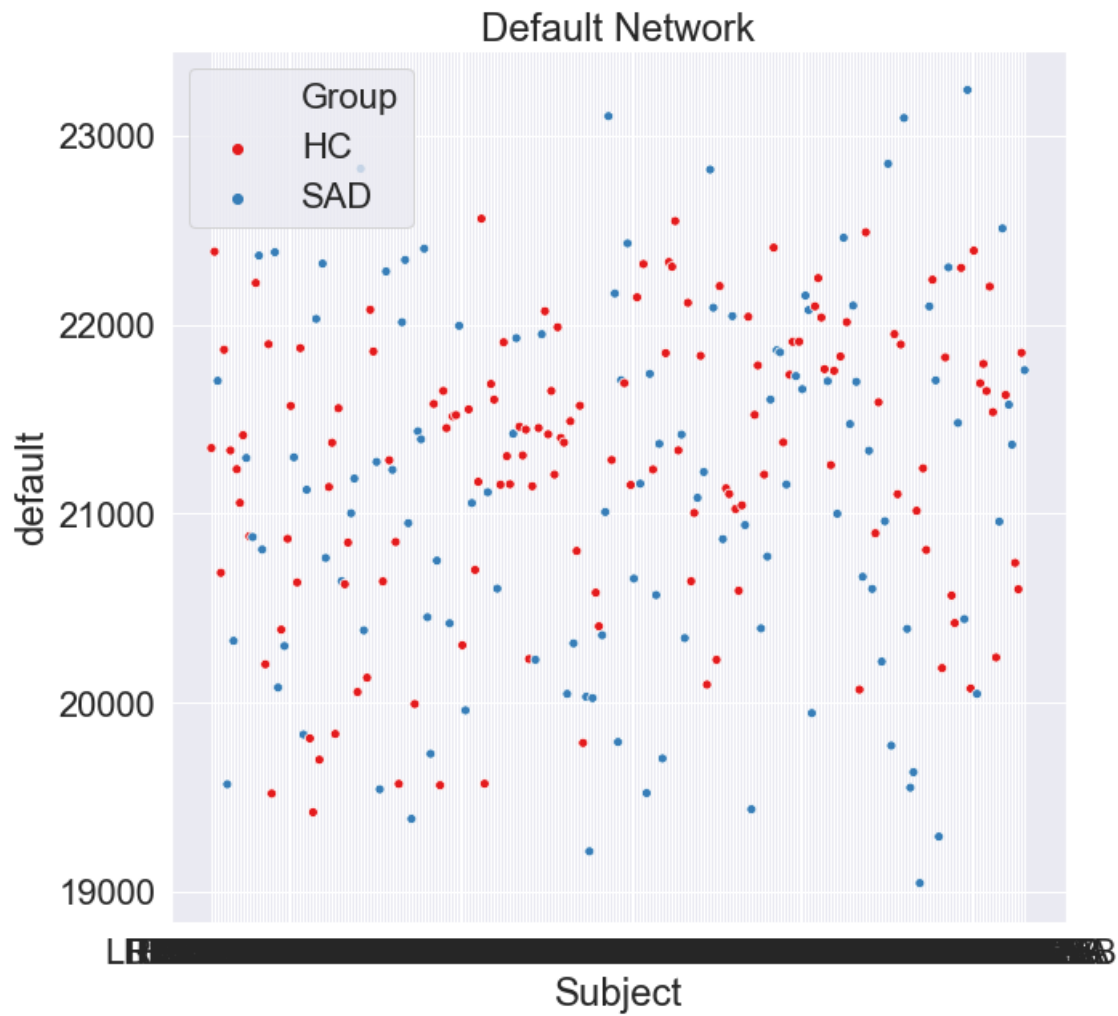
```
[68]: Text(0.5, 1.0, 'Frontoparietal Network')
```





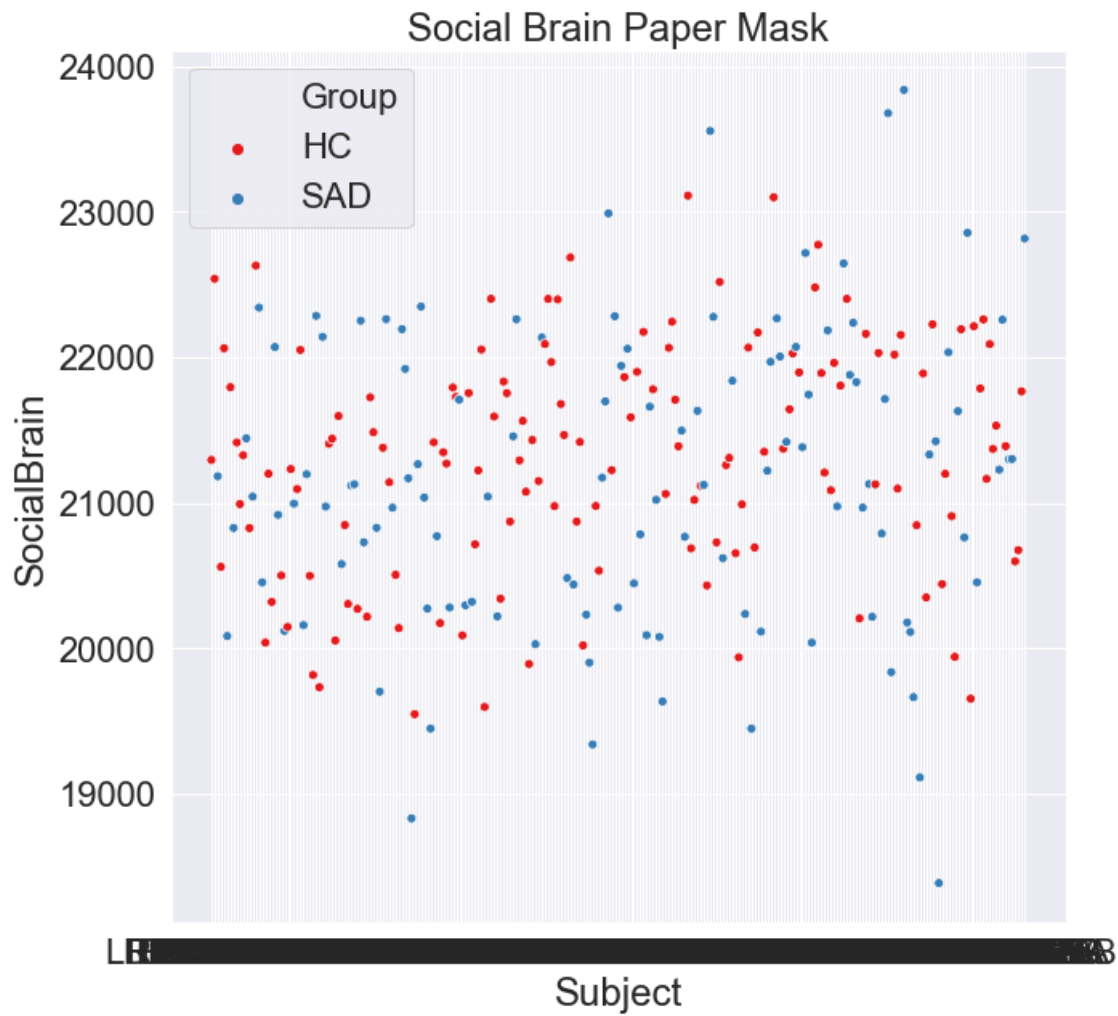
```
[69]: plt.figure(figsize=(10,10))
sns.scatterplot(x="Subject",y="default", hue="Group", palette="Set1", data=df2)
plt.title('Default Network')
```

```
[69]: Text(0.5, 1.0, 'Default Network')
```



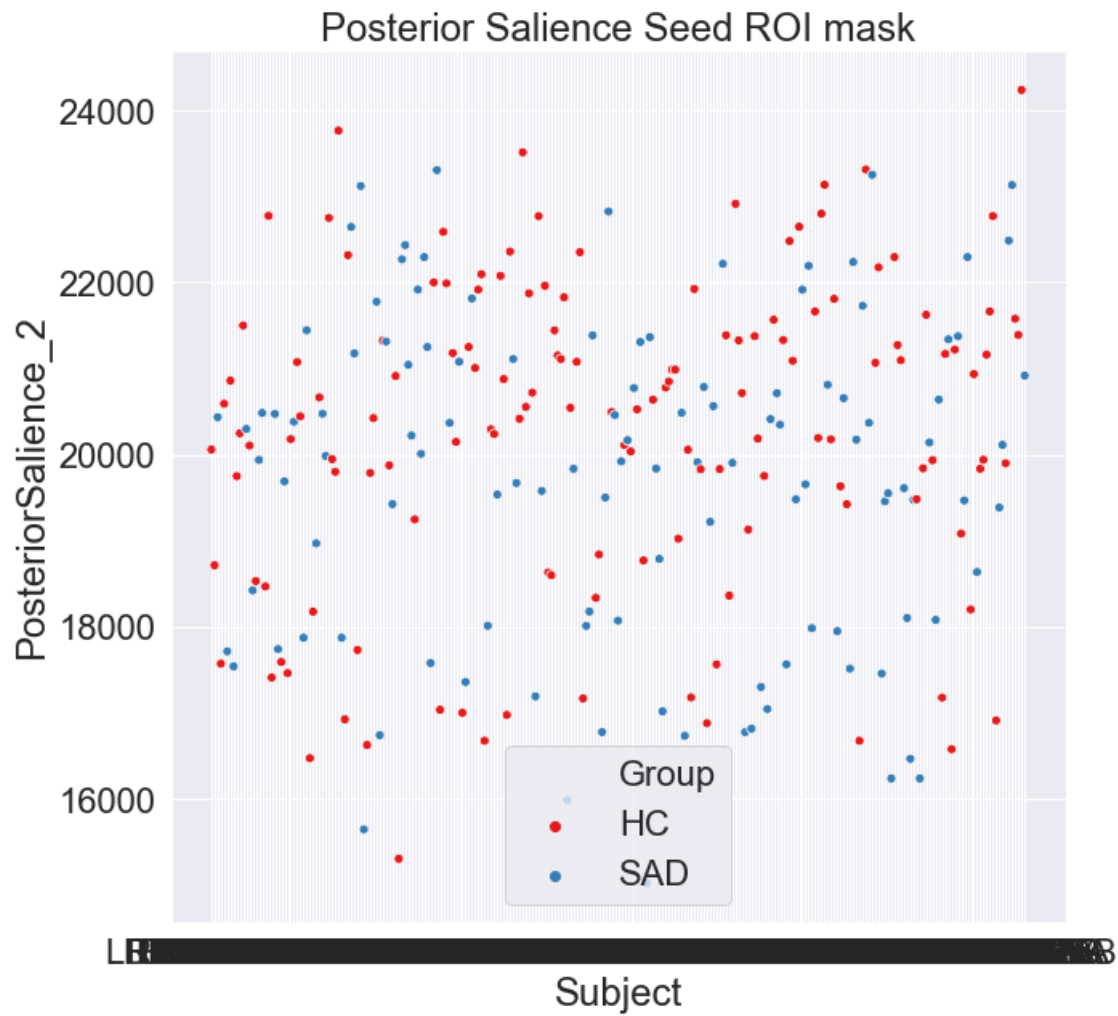
```
[70]: plt.figure(figsize=(10,10))
sns.scatterplot(x="Subject",y="SocialBrain", hue="Group", palette="Set1",
               data=df2)
plt.title('Social Brain Paper Mask')
```

```
[70]: Text(0.5, 1.0, 'Social Brain Paper Mask')
```



```
[71]: plt.figure(figsize=(10,10))
sns.scatterplot(x="Subject",y="PosteriorSalienc2", hue="Group",
               palette="Set1", data=df2)
plt.title('Posterior Salienc Seed ROI mask')
```

```
[71]: Text(0.5, 1.0, 'Posterior Salienc Seed ROI mask')
```



```
[72]: plt.figure(figsize=(10,10))
sns.scatterplot(x="Subject",y="Subcortex9_Lhipp", hue="Group", palette="Set1",data=df2)
plt.title('Left Hippocampus Seed ROI mask')
```

```
[72]: Text(0.5, 1.0, 'Left Hippocampus Seed ROI mask')
```

