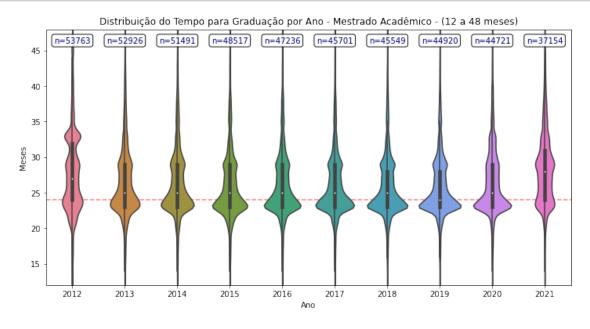
CAPES - Average Time to Graduate

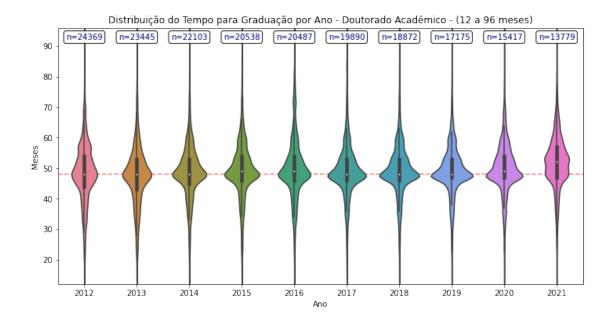
October 15, 2023

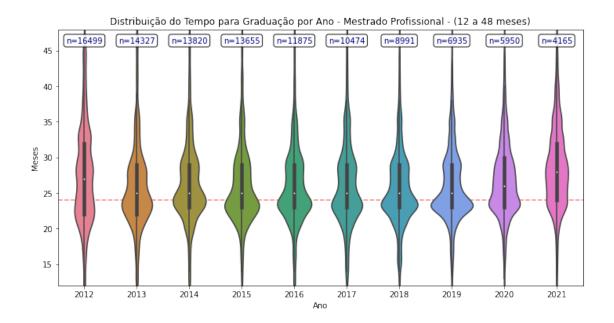
[3]: import pandas as pd

```
import seaborn as sns
     import matplotlib.pyplot as plt
[4]: def plot(df,title,descr,ymin,ymax,yexp):
         plt.figure(figsize=(12, 6)) # Adjust the figure size as needed
         plt.ylim(ymin, ymax)
         plt.axhline(y=yexp, color='#FF8080', linestyle='--',zorder=0)
         sns.violinplot(x='AnoBase', y='MesesParaGraduacao', data=df, palette=sns.

color_palette('husl', 10),zorder=1)
         # Add labels and title
         # plt.yscale('log')
         plt.xlabel('Ano')
         plt.ylabel('Meses')
         plt.title('Distribuição do Tempo para Graduação por Ano - '+title+' -⊔
         data_counts = df['AnoBase'].value_counts()
         x_positions = range(len(data_counts))
         for x, (year, count) in zip(x_positions, data_counts.items()):
             bbox_props = dict(boxstyle='round, pad=0.3', facecolor='white', alpha=0.
      →9)
             plt.text(x, ymax*.96, f'n={count}', fontsize=10, color='#000080', __
      →ha='center',bbox=bbox_props)
         plt.show()
```







[]: