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```
In [42]:
         mport pandas as pd
         import matplotlib.pyplot as plt
          mport seaborn as sns
         import numpy as np
         From nutil.plot import paperStyle
        download url =
        a = pd.read_csv(download_url)
        b = pd.read_csv("new.csv")
        u = 45000 + 1.5*(45000 - 40000)
        1 = 40000 - 1.5*(45000 - 40000)
        b = b[(b['Median'] <= u) & (b['Median'] >= 1)]
        a3 = a.sort_values(by = ['Major_category'], ascending=True)
        a3 = a3.iloc[61:105, :]
        sns.set_style('whitegrid')
        fig, (ax0,ax1,ax2) = plt.subplots(nrows=1,ncols=3,figsize=(30,15))
        plt.subplots_adjust(wspace=.2)
        a.sort_values(by = ['Median'], ascending=False)
        a.iloc[:10].plot(x="Major", y=["P25th", "Median", "P75th"],
        kind="barh",
                                color=
         'mediumturquoise','darkgoldenrod','steelblue'),ylabel="",ax = ax0)
        sns.boxplot(data=b, x='Major_category', y='Median',ax = ax1)
        c=sns.stripplot(x="Major_category"
        y="Median",data=b,hue="Major category",ax = ax1)
        ax1.set_xticklabels(ax1.get_xticklabels(),rotation=45,horizontalalignmen
        ax1.set_xlabel('Major_category',fontsize='15')
        sns.violinplot(x='Major_category',y='Employed',data=a3,ax=ax2)
        sns.stripplot(x="Major category", y="Employed",data=a3,ax=ax2)
        ax2.set_xticklabels(ax2.get_xticklabels(),fontsize='13')
```

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```
ax2.set_xlabel('Major_category',fontsize='15')
ith paperStyle(font_size=8):
    fig, (ax_boxplot, ax_hist) = plt.subplots(nrows=2,
                                              figsize=(6.5, 2),
                                              gridspec_kw=
    sns.boxplot(df, x='Age', ax=ax_boxplot)
    sns.histplot(df, x='Age', bins=49, ax=ax_hist)
    sns.despine(ax=ax_boxplot, left=True, bottom=True)
    sns.despine(ax=ax_hist, trim=True)
    ax_boxplot.set_xlabel('')
    ax_boxplot.set_yticks([])
    ax_boxplot.set_xticks([])
    plt.savefig('files/age.svg', bbox_inches='tight')
plt.savefig('Homework4.svg', dpi=300, bbox_inches='tight')
plt.show(
```