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In [1]: # MEMORY CLEAN
        # import qc
        # gc.collect()
        from IPython import get_ipython
        get_ipython().run_line_magic('reset', '-sf')
In [2]: # IMPORT
        import os as os
        import pandas as pd
        import numpy as np
        import matplotlib as plt
In [3]: # DATA WRANGLER
        path1 = os.path.join("openbiomechanics", "baseball pitching", "data", "metadata.csv")
        meta_data = pd.read_csv(path1)
        path2 = os.path.join("openbiomechanics", "baseball_pitching", "data", "full_sig", "forces_moments.csv")
        data = pd.read csv(path2)
        path3 = os.path.join("openbiomechanics", "baseball_pitching", "data", "full_sig", "force_plate.csv")
        force data = pd.read csv(path3)
        path4 = os.path.join("openbiomechanics", "baseball_pitching", "data", "poi", "poi_metrics.csv")
        poi = pd.read_csv(path4)
        # data.groupby('session_pitch').count()
        # force_data.groupby('session_pitch').count()
        # meta_data.groupby('session_pitch').count()
        meta_data = meta_data[meta_data.pitch_speed_mph >= 89].sort_values(by=['session_pitch'], ascending=True)
        # Filter by pitch speed, sort by ID num
        filt_meta_data = meta_data[meta_data['session_pitch'].str.endswith('1')]
        # Filter session ID by first trial (... 1)
        constr_data = pd.merge(filt_meta_data[['session_pitch']], data, on='session_pitch', how='left')
        poi = poi[poi.pitch_speed_mph >= 89].sort_values(by=['session_pitch'], ascending=True)
        filt poi = poi[poi['session pitch'].str.endswith('1')]
        variable names = [poi.columns]
In [4]: # STATISTICS
        mean_age = np.mean(filt_meta_data.age_yrs)
        std age = np.std(filt meta data.age yrs)
        mean_height = np.mean(filt_meta_data.session_height_m)
        std_height = np.std(filt_meta_data.session_height_m)
        mean mass = np.mean(filt meta data.session mass kg)
        std_mass = np.std(filt_meta_data.session_mass_kg)
        # filt_meta_data['playing_level_num'] = filt_meta_data['playing_level'].replace({'college': 1, 'independent': 2, 'milb': 3})
        val counts = filt meta data['playing level'].value counts()
        rel_dist = filt_meta_data['playing_level'].value_counts(normalize=True)
        playing_levels = pd.DataFrame({'Playing Level': val_counts.index, 'Amount': val_counts.values, 'Relative Distribution (%)': rel_dist.values * 100})
        descriptives_table = {
                 'Descriptive': ['Age (years)', 'Height (m)', 'Mass (kg)'],
                 'Mean': [mean age, mean height, mean mass],
                 'Std Dev': [std_age, std_height, std_mass]
```