

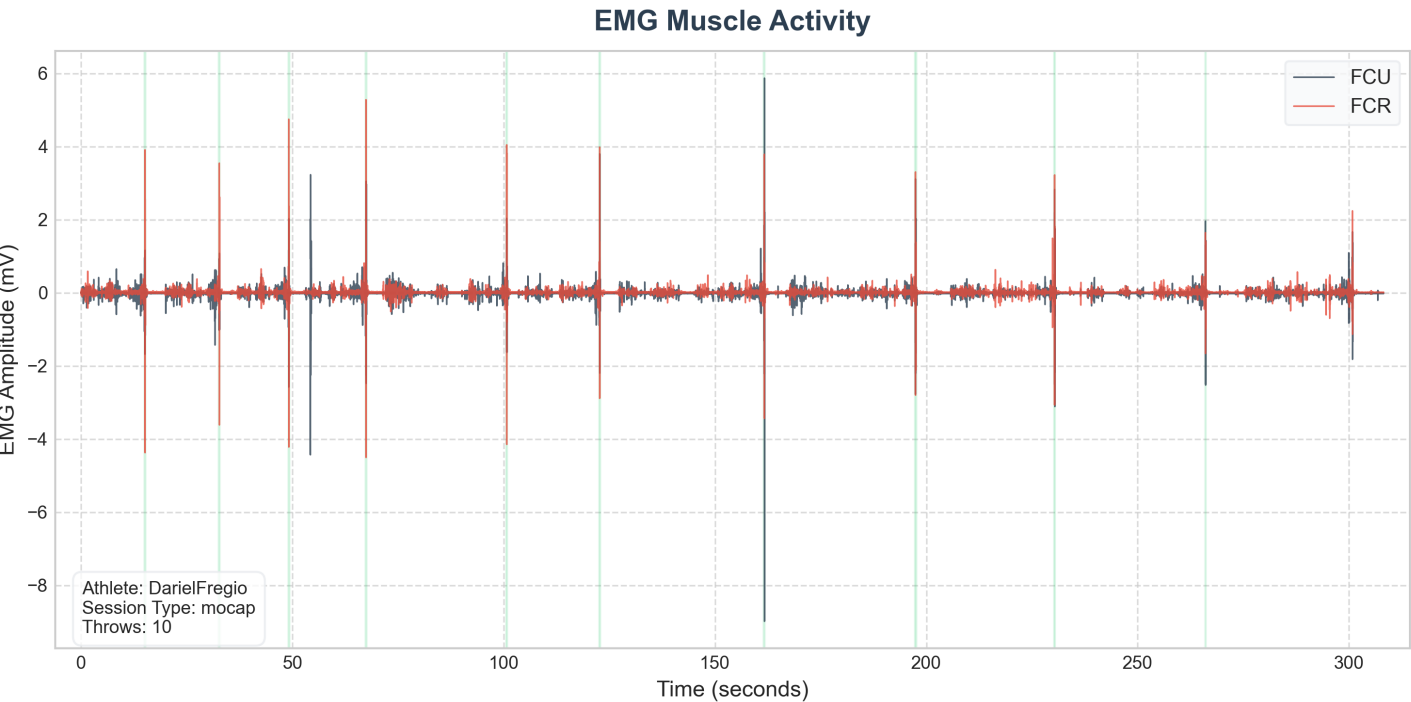
Daniel Fregio

EMG Report for mocap Session

February 27, 2025

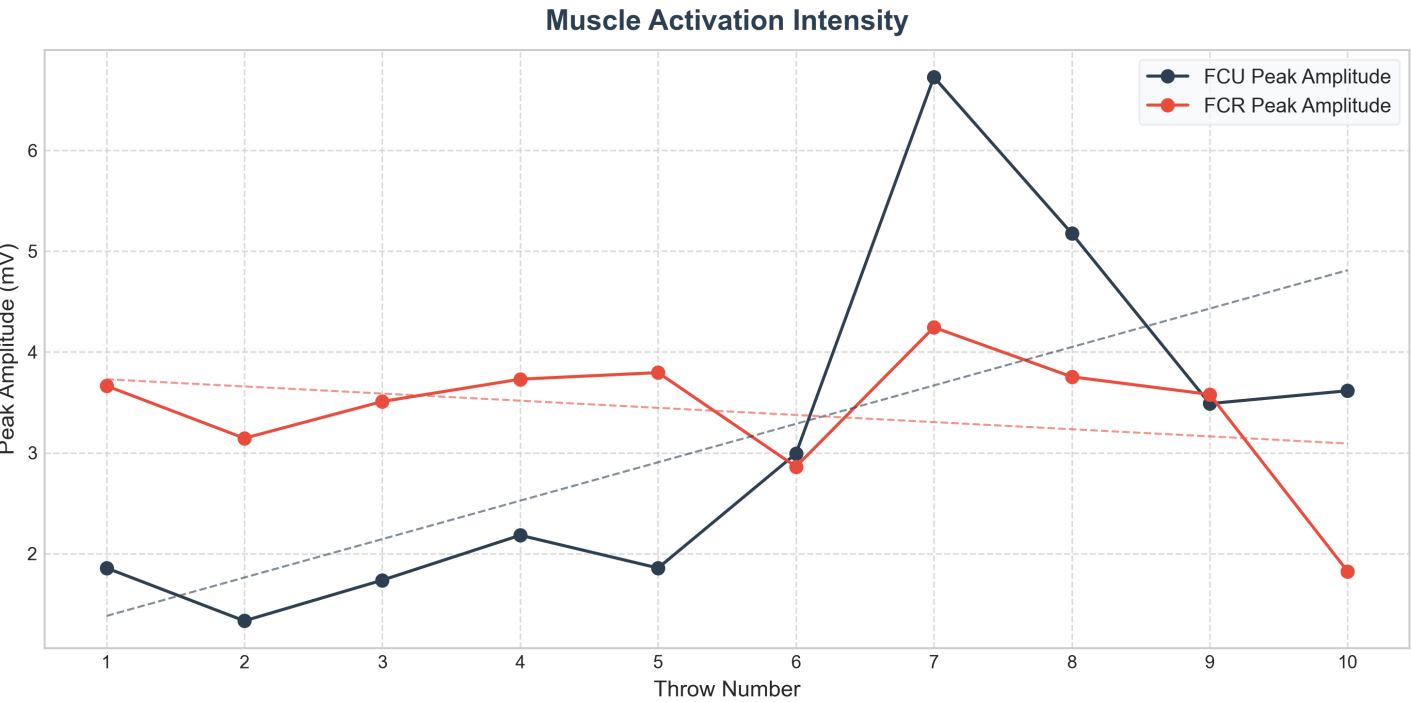
Throwing Summary

EMG Activity



EMG muscle activity throughout the session with throw regions highlighted in green.

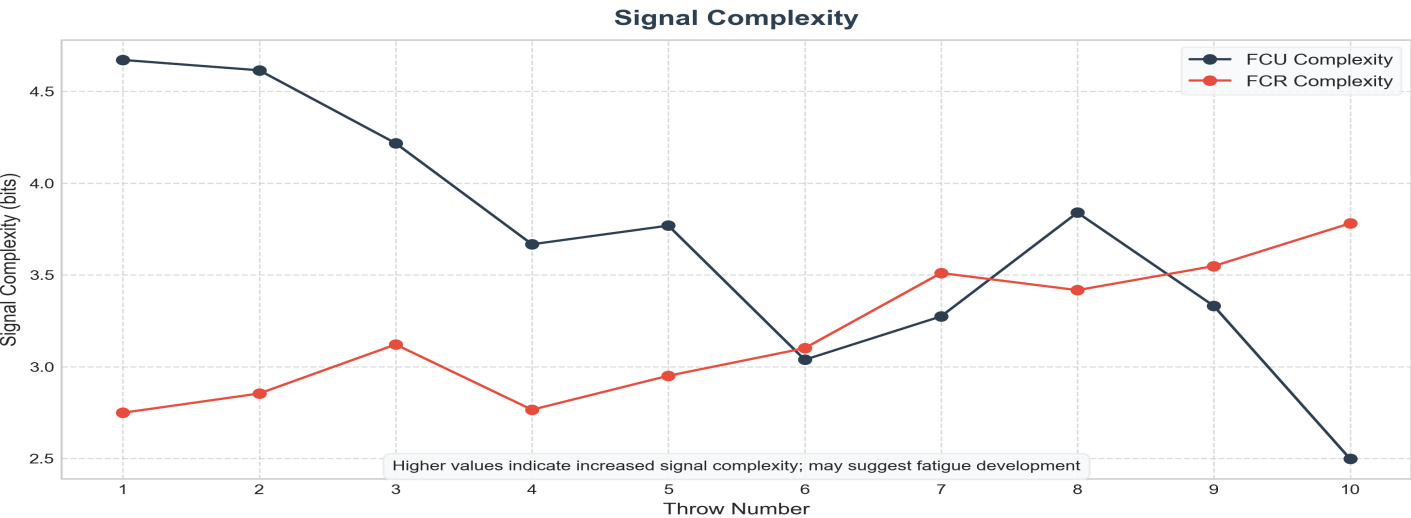
Muscle Activation Intensity



Peak muscle activation intensity for each throw.

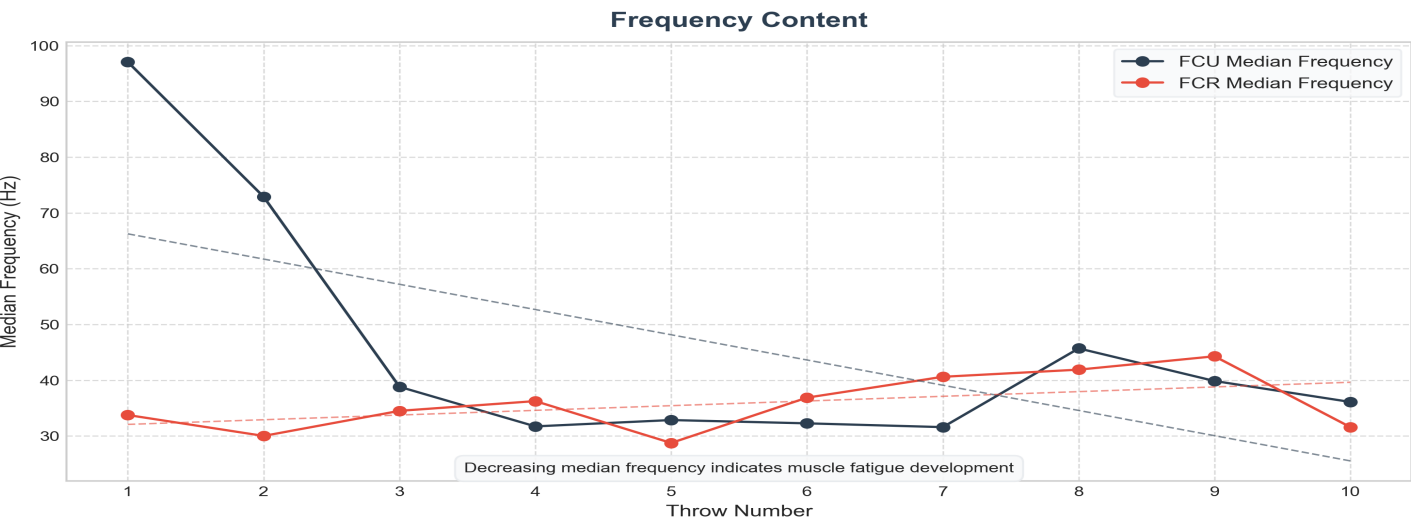
Fatigue and Twitch Analysis

Signal Complexity



Signal complexity (spectral entropy) across throws.

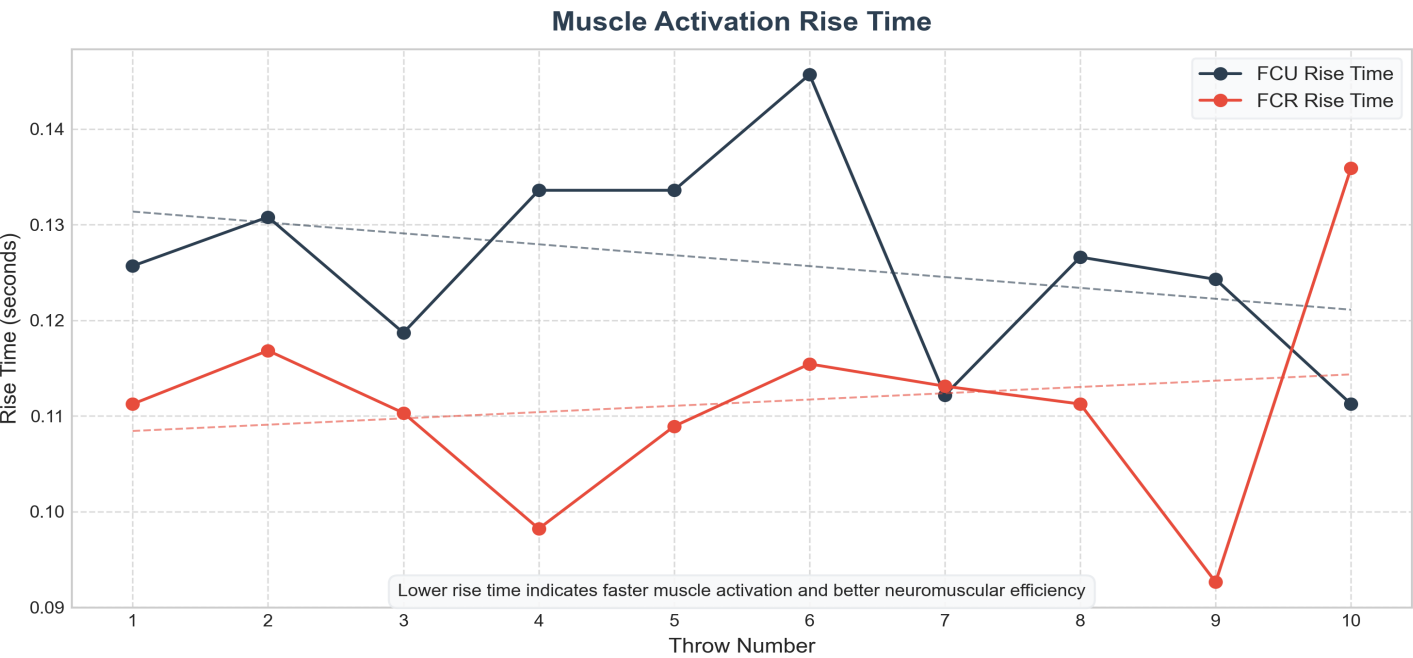
Frequency Content



Median frequency content across throws.

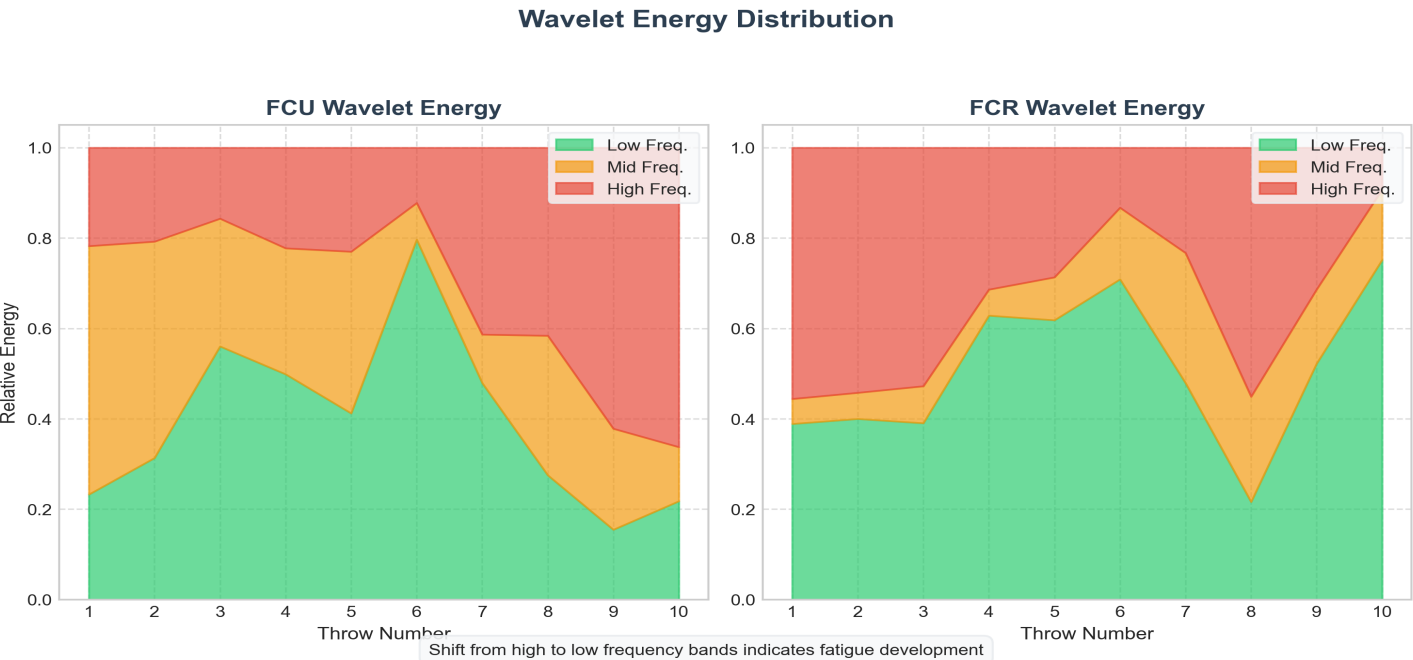
Neuromuscular Analysis

Neuromuscular Efficiency (Rise Time)



Muscle activation rise time (time to reach peak contraction) across throws.

Wavelet Energy Distribution



Distribution of energy across frequency bands for each throw.