Biomechanics Analysis and Reporting

Application

User Manual

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Version 1.0

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# Intent

The creation of this application hopes to establish a generalized framework by which scientists in the biomechanics community conduct their data processing and analysis. The intent is that this will facilitate data analysis and reporting by making the process easier for students with varied backgrounds, and by enhancing the repeatability of analytical procedures. The framework provides a base-level application that others can use as-is or build upon with their own sources and methods.

# Scope

The base-level of the application includes 1) loading of data, 2) processing and analysis, 3) graphical and quality review and 4) export of the data. Its design was meant to be open to varied methods used in the study of human movement. Ultimately, these methods are not all that dissimilar to methods in other fields. It is likely those outside the realm of biomechanics would also find this application useful.

Some aspects of data processing are outside the scope of the application. These may require dedicated hardware or complex software solutions, involve high performance computing or complex modeling and similation.

# Overview

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