

Bath University Project: The Effect of Different Gender and Gradient on Lower Kinematics

Abstract

Step 1: Set up files correctly

First, download the .C3D file. You can find all the file through here: **HYPERLINK TO ORIGINAL BATH UNI FILES**, or you can skip this step then use the preprocessed files which you can find here: **HYPERLINK2 TO OUR PREPROCESSED FILES**.

Make sure your files are arranged in this format:

Step 2: Generate .CMZ Files Automatically

Once you have all the files, click **Library** on the top bar.

Click the first **Browse** for Library Path and select the file that includes all the c3d files. Then, select **Build BMZs** check both **Make Hybrid Model** and **Metadata**. Then click **Browse** to select *bathmodel_virtual.mdh* and manually type the **Static*.c3d* and **uphillrun_num_1.c3d* in **Static File Identifier** and **Dynamic File Identifier**.

Click **Browse** in Metadata to select your .csv file

This window will pop up. Make sure the descriptions are exactly the same as shown below and there are no spaces in the .csv file (you can view the file using VisualStudio Code or just any .txt reader). Then click **Apply**

Click **Add Script** then add pipeline.v3s to the pipeline. Then click **Build CMZs**. You can download the pipelines here: **HYPERLINK TO DOWNLOAD IT**

Step 3: Load Query

If you wish to build your own query, please visit **HYPERLINK3 TO HOW to build the query**. If not, you can simply download the prebuild query file here: **HYPERLINK4 TO DOWNLOAD FILE**.

After downloading the file, click **Load Query Definition** and select the file you just downloaded. You see the queries showing up on the left as shown below. Then, click **Calculate All Queries** and wait until it's 100% calculated.

You should see this once you have successfully calculated all queries.

Step 4: Clean Up Data

Step 5: SPM

Step 6: PCA

Conclusion:

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