**Force Vector & Joint Reaction Data**

The transformed and scaled data for each patient is in the *patient folder* directory named in the format ‘PX’ where X denotes the patient number.

Within each *patient folder*, there are 3 sub directories or *activity folders*:

* FastGait
* Squat
* ChairRise

Each *activity folder* contains various *.csv* files:

|  |  |  |
| --- | --- | --- |
| **File(s)** | **Name** | **Notes / Description** |
| The muscle insertion points | MuscleIns | The locations on the tibia where the muscle force is applied |
| Joint reaction locations | MedJointLoc  LatJointLoc | The locations on the tibial plateau where the joint reaction force is applied |
| Muscle force vectors for each of the required *timepoints* | MuscleVecs\_XX  MuscleVecs\_XX  MuscleVecs\_XX  MuscleVecs\_XX  MuscleVecs\_XX | Describes the magnitude and direction of the forces applied at the muscle insertion locations. ‘XX’ denoted the specific *timepoints* evaluated for that activity |
| Joint reactions vectors for each of the required *timepoints* | LatJointR\_Cycle  MedJointR\_Cycle | Describes the magnitude and direction of the forces applied at the joint reaction locations. The rows 1-5 correspond the above *timepoints* for each activity |

The *timepoints* were selected to simulate moments of interest such as maximum or minimum joint reaction or muscle force. All files are *.csv* files and can be opened using most text editors or Microsoft excel.