Documentation for Special project: ABI - Clinical tool for visualisation of lower limb bone geometry, landmarks, and measurements – Laura Carman

Steps to execute the scripts:

1. Install Python 3.8 as it is known to work with OpenSIM 4.5. Python > 3.8 caused some issues especially with package dependencies.
2. Install OpenSIM 4.5 and follow the instructions provided here: <https://opensimconfluence.atlassian.net/wiki/spaces/OpenSim/pages/53085346/Scripting+in+Python>
3. pip install gias3 (ABI software) by following the docs here: <https://github.com/musculoskeletal/gias3>
4. Run find\_landmarks\_and\_align.py script to process the .ply files (provided by the researcher) into landmarks measurements.
5. Run visualize.py to visualize the bone meshes, landmarks, angles etc.