

Kinetics Toolkit: An Open-Source Python Package to Facilitate Research in Biomechanics

Félix Chénier^{1, 2}

¹ Department of Physical Activity Sciences, Université du Québec à Montréal (UQAM), Montreal, Canada ² Mobility and Adaptive Sports Research Lab, Centre for Interdisciplinary Research in Rehabilitation of Greater Montreal (CRIR), Montreal, Canada

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Summary

Kinetics Toolkit is a Python package for generic biomechanical analysis of human motion that is easily accessible by new programmers. The only prerequisite for using this toolkit is having minimal to moderate skills in Python and Numpy.

While Kinetics Toolkit provides a dedicated class for containing and manipulating data (Time Series), it loosely follows a procedural programming paradigm where processes are grouped as interrelated functions in different submodules, which is consistent with how people are generally introduced to programming. Each function has a limited and well-defined scope, making Kinetics Toolkit generic and expandable. Particular care is given to documentation, with extensive tutorials and API references. Special attention is also given to interoperability with other software programs by using Pandas Dataframes (and therefore CSV files, Excel files, etc.), JSON files or C3D files as intermediate data containers.

Kinetics Toolkit is accessible at <https://kineticstoolkit.uqam.ca> and is distributed via conda and pip.

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