**Gait Profile Score**

These equations are taken from the following papers:


**Gait Variable Scores (Eq. 1)**

\[
GVS_i = \sqrt{\frac{1}{T} \sum_{t=1}^{T} (x_{i,t} - x_{i,t}^{ref})^2}
\]

*GVS\textsubscript{i} = Gait Variable Scores*

*i = The number of kinematic variables used (knee flexion, foot progression, etc.)*

*T = Specific point in the gait cycle*

\(x_{i,t} = \) The value of a gait variable \(i\) calculated at a specific point in the gait cycle \(t\)

\(x_{i,t}^{ref} = \) The mean of that variable at the same point in the gait cycle for the reference population

**Gait Profile Scores (Eq. 2)**

\[
GPS = \sqrt{\frac{1}{N} \sum_{i=1}^{N} GVS_i^2}
\]

*GPS = Gait Profile Scores*

*GVS\textsubscript{i} = Gait Variable Scores*

*i = The number of kinematic variables used (knee flexion, foot progression, etc.)*

*T = The total number of kinematic variables used*