Stride 1 Left   Stride 2 Left   Stride 3 Left   Stride 4 Left

$T = 0$

Stride 1 Right   Stride 2 Right   Stride 3 Right   Stride 4 Right
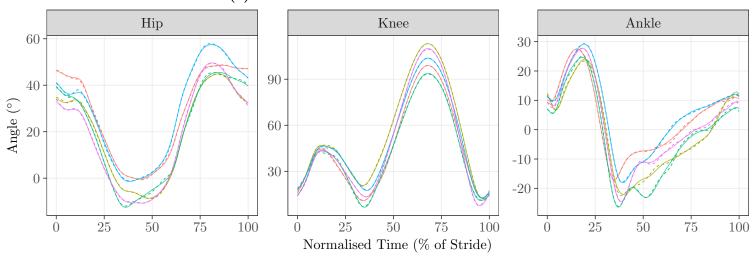
$T_{i,\text{right},1}$

(a) Scree Plot

(b) Explained Variance

(c) Reconstruction of Test-Set Observations
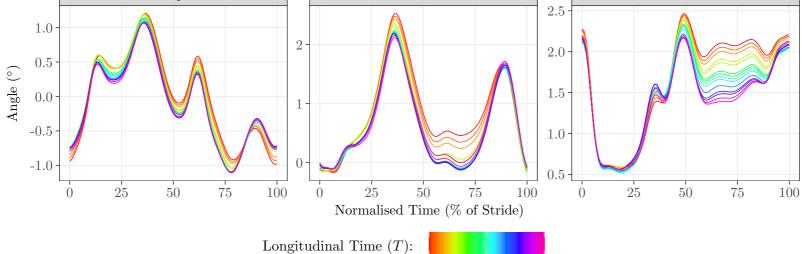
Hip

Knee

Ankle

Normalised Time (% of Stride)

Angle (°)

—— Reconstructed ---- True

Left and Right mv-FPC1 Scores ($y^*_{ijl,1}$) plotted against Longitudinal Time (T) for six participants.

Figure caption showing simulated mv-FPC scores across six participants. The y-axis represents Simulated mv-FPC Score ($y^*_{ijl,1}$) and the x-axis represents Longitudinal Time (T). Side: left (red), right (blue).

(a) Intercept Function

(b) Intercept Function (Centred around Overall Mean)

Longitudinal Time (T):