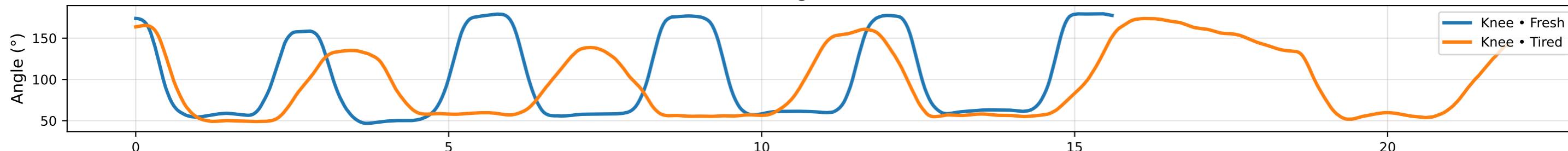


STS Performance Report for P01_TAN JIE YING

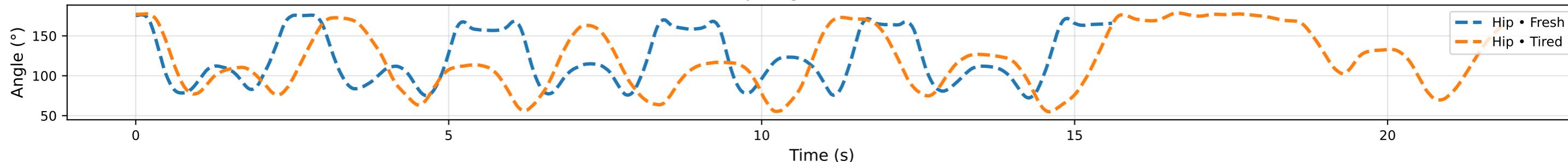
Age: 22 • Gender: FEMALE • Side: RIGHT • Exercise: Jogging • Duration of Exercise: 15 minutes

Fresh: 460 frames @~29.4 fps • Tired: 650 frames @~29.6 fps

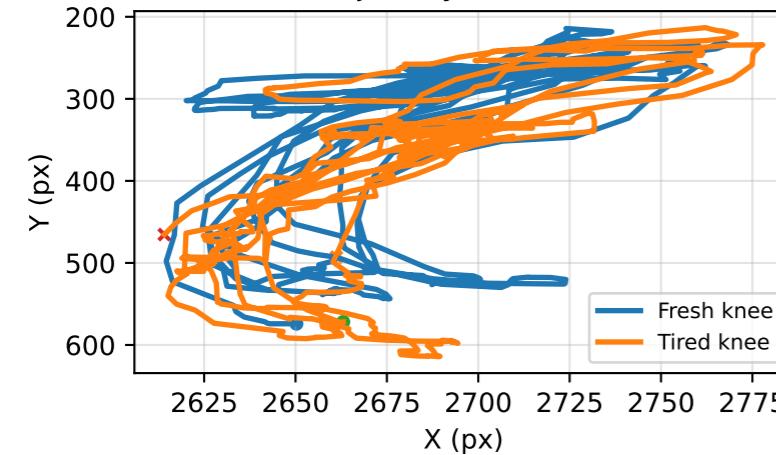
Knee Angle over Time



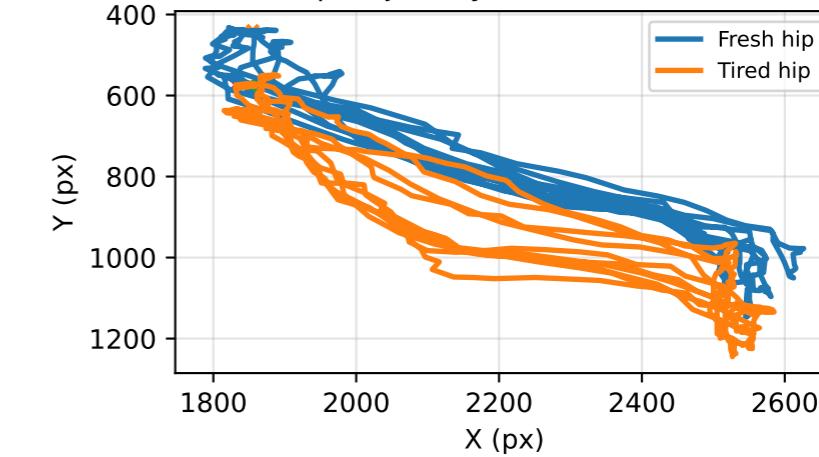
Hip Angle over Time



Knee trajectory (Fresh vs Tired)



Hip trajectory (Fresh vs Tired)



Verdict: Fatigue

DTW — Knee angle: 2551.1 • Hip angle: 1584.5 • Knee XY: 7217.0
Mean knee angle ↓ 5.0° • Knee ROM ↓ 8.0° • Peak knee ang. vel ↓ 61%

Knee Angle Summary (Time-series)

Session	Mean (°)	SD	Min (°)	Max (°)	Range (°)	Frames
Fresh	99.68	49.18	46.77	179.56	132.79	460.00
Tired	94.70	41.44	48.97	173.78	124.81	650.00

Per-Rep & Trajectory Metrics (Fresh vs Tired)

Metric	Fresh	Tired	Δ (%)
Knee ROM (°)	86.05	50.42	-41.40
Hip ROM (°)	63.76	47.05	-26.20
Ascent time (s)	1.29	1.28	-0.90
Peak knee ang. vel (°/s)	213.68	84.39	-60.50
Knee path length (px)	4961.39	4469.51	-9.90
Knee mean speed (px/s)	318.08	203.87	-35.90
Knee jerk RMS	63076.74	50071.47	-20.60