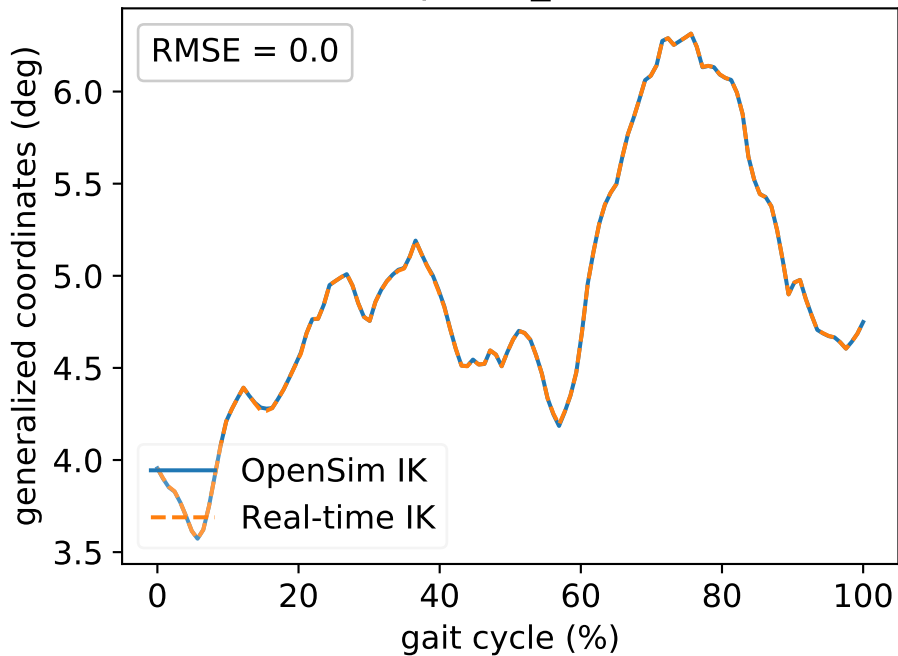
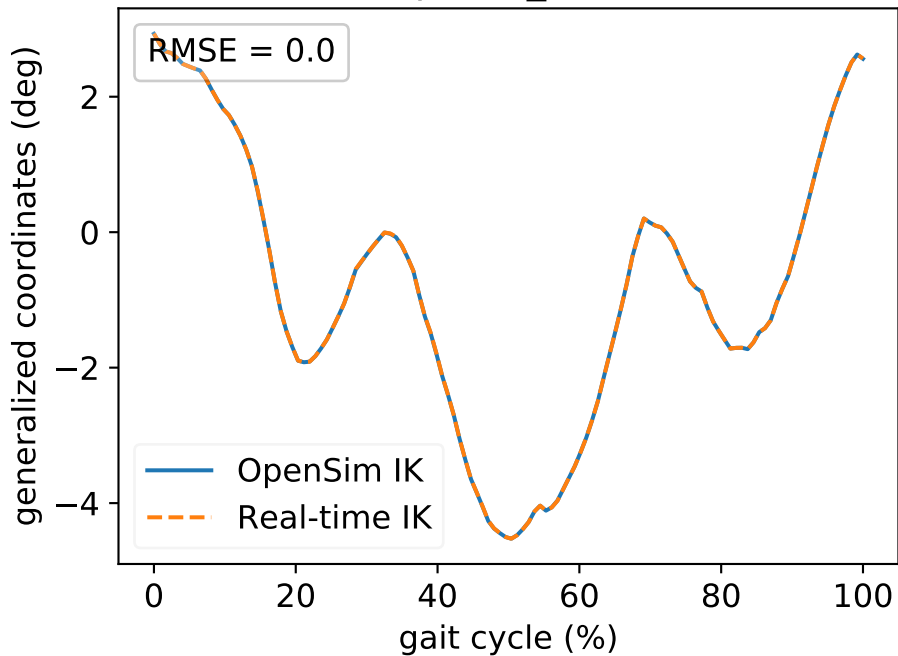


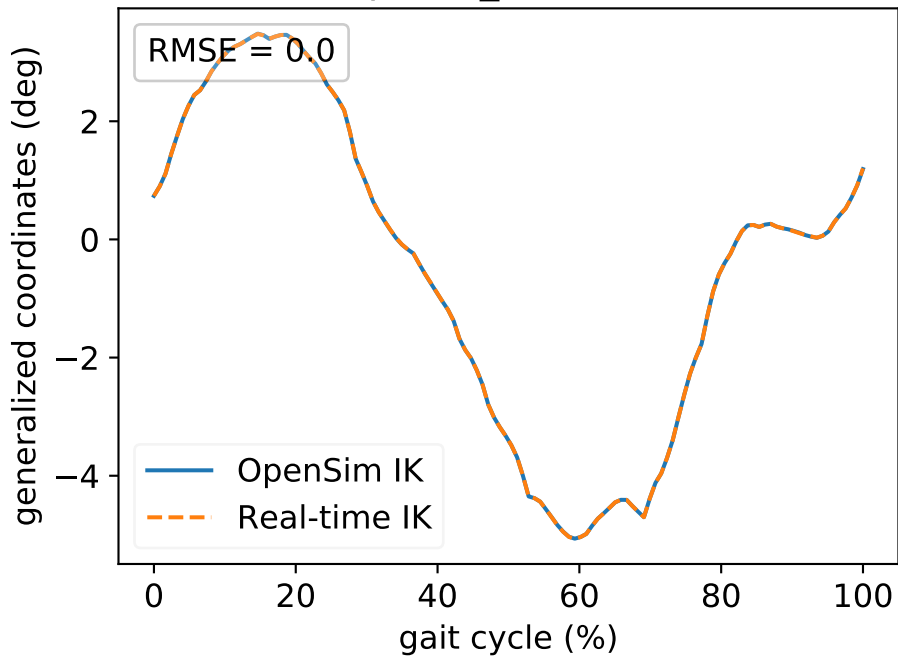
# pelvis\_tilt



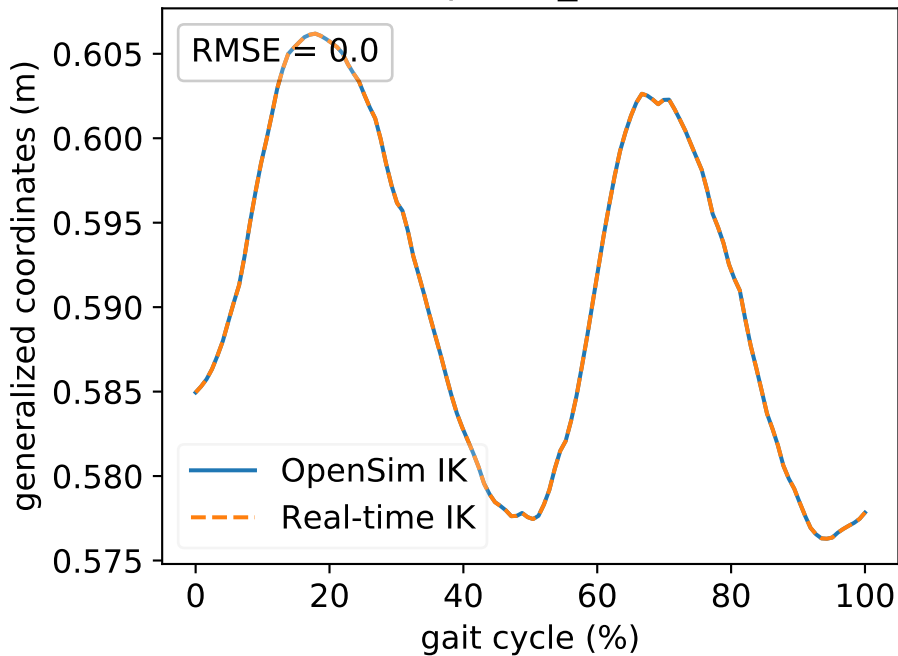
## pelvis\_list



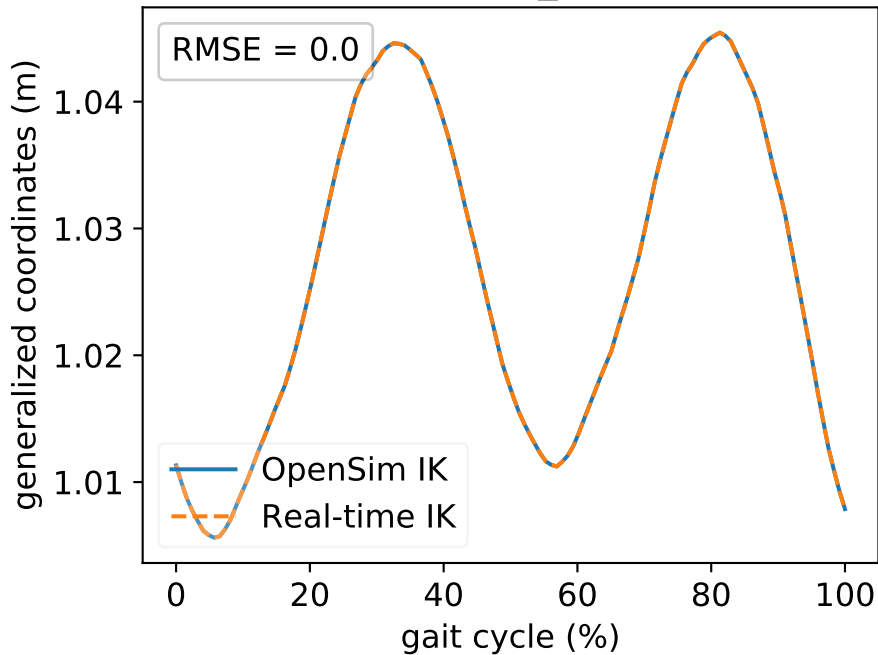
# pelvis\_rotation



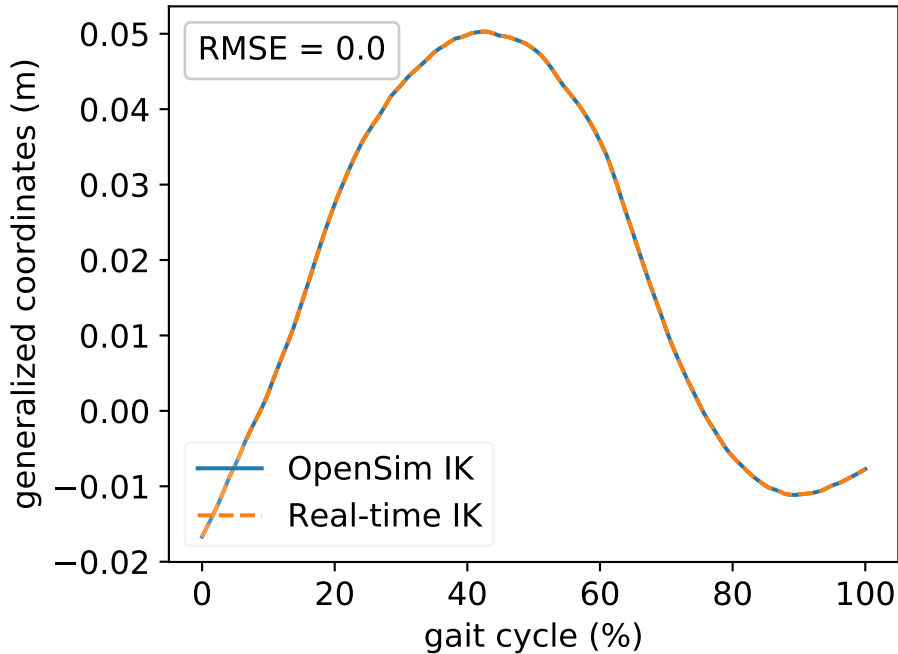
# pelvis\_tx



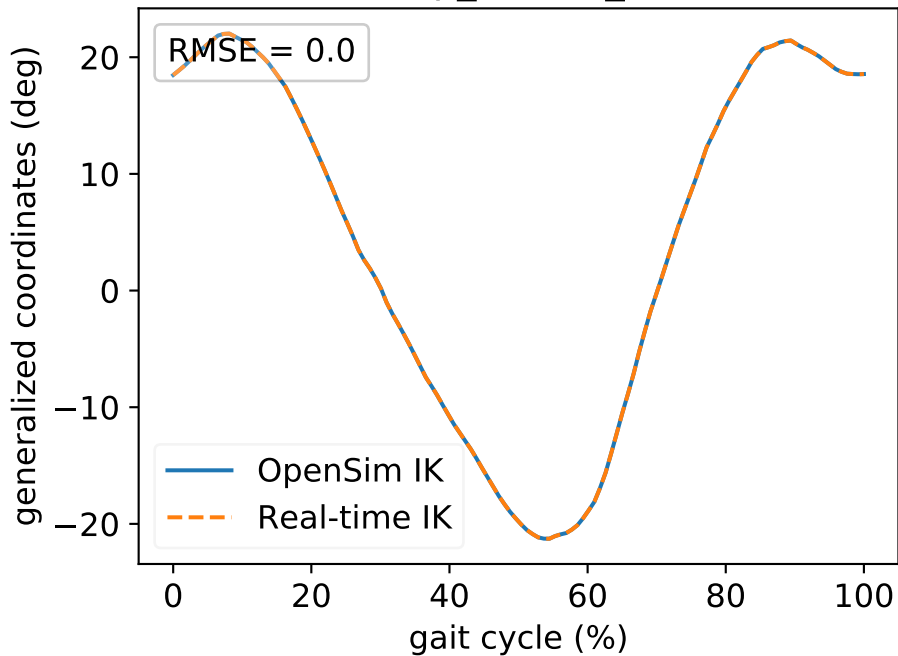
# pelvis\_ty



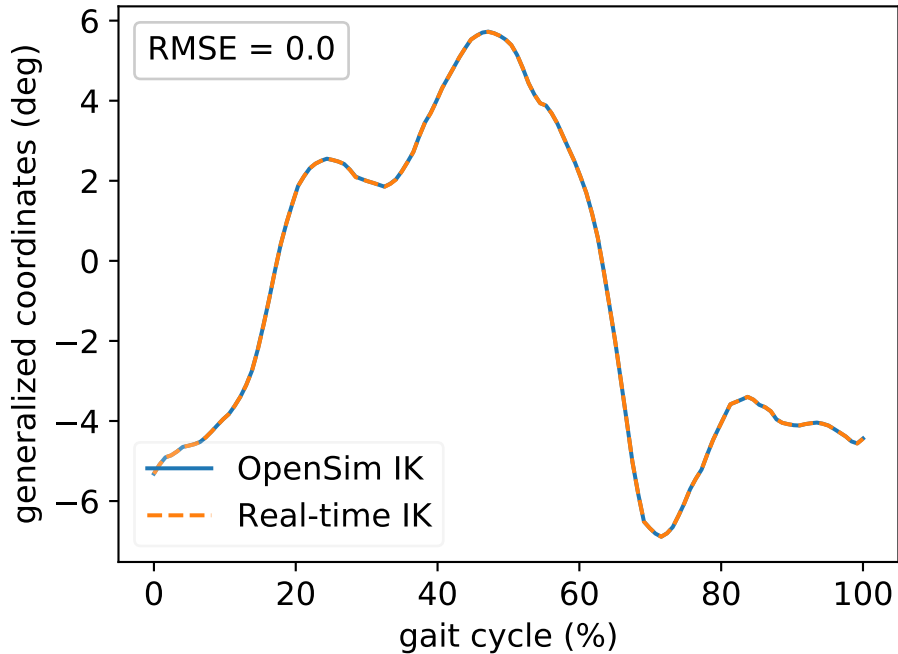
# pelvis\_tz



## hip\_flexion\_r



## hip\_adduction\_r





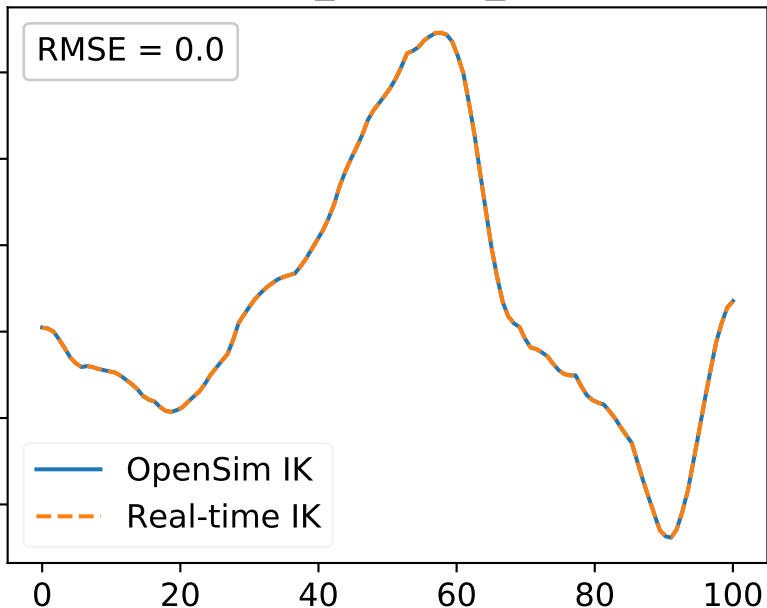
# hip\_rotation\_r

generalized coordinates (deg)

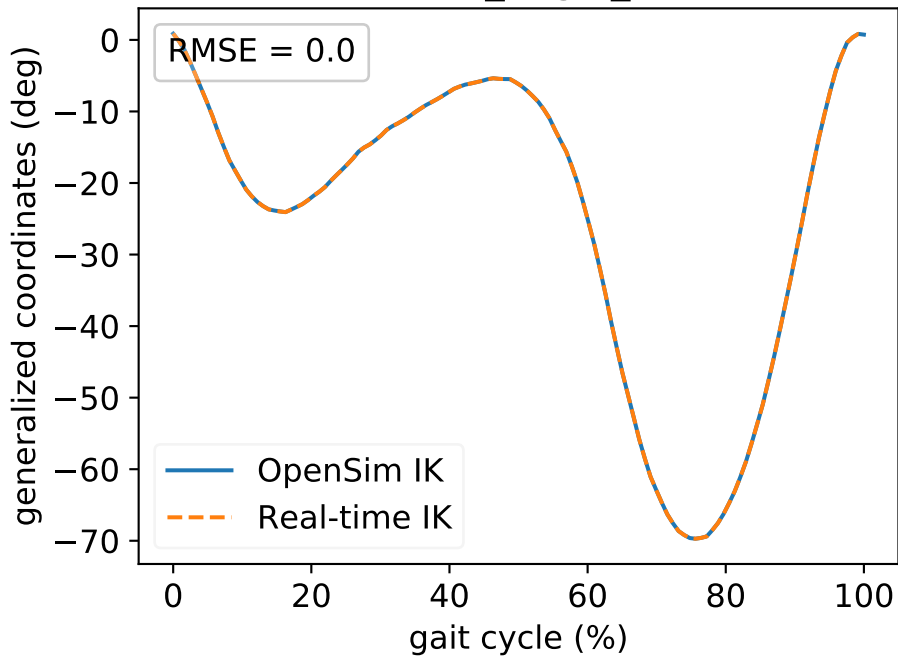
RMSE = 0.0

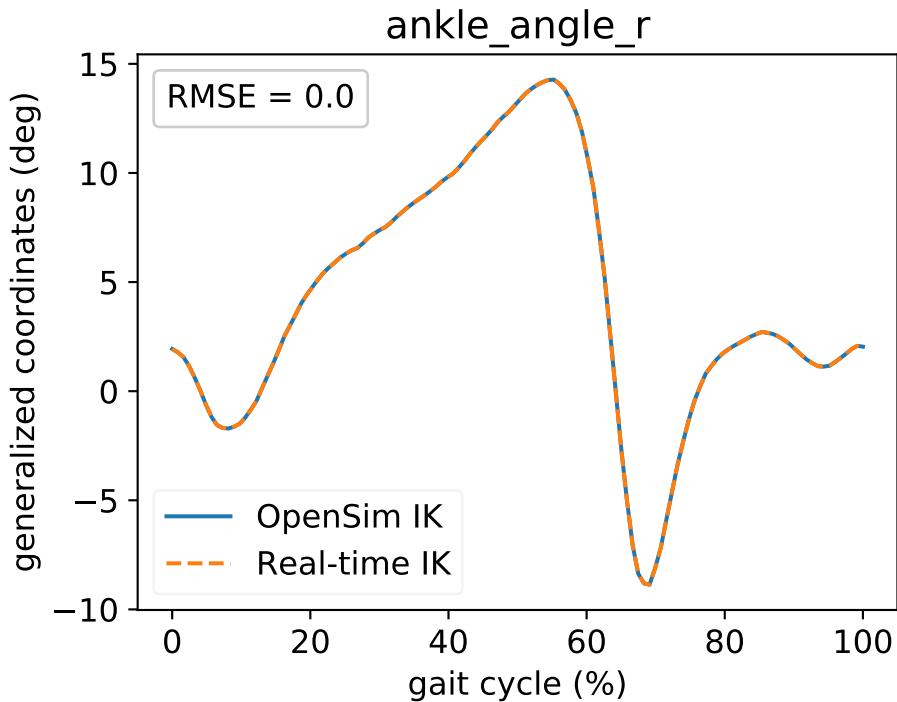
OpenSim IK  
Real-time IK

gait cycle (%)

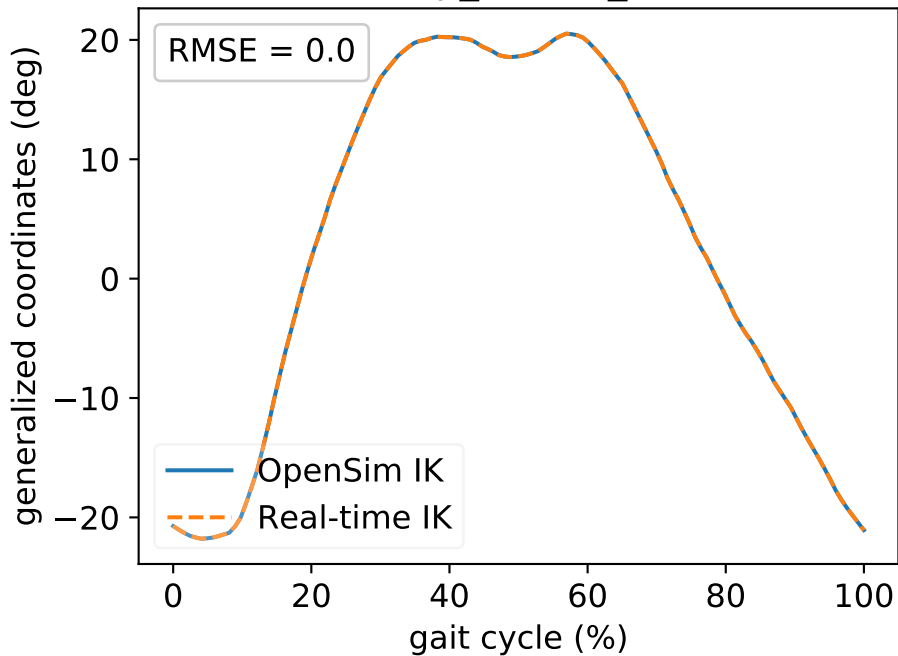


# knee\_angle\_r

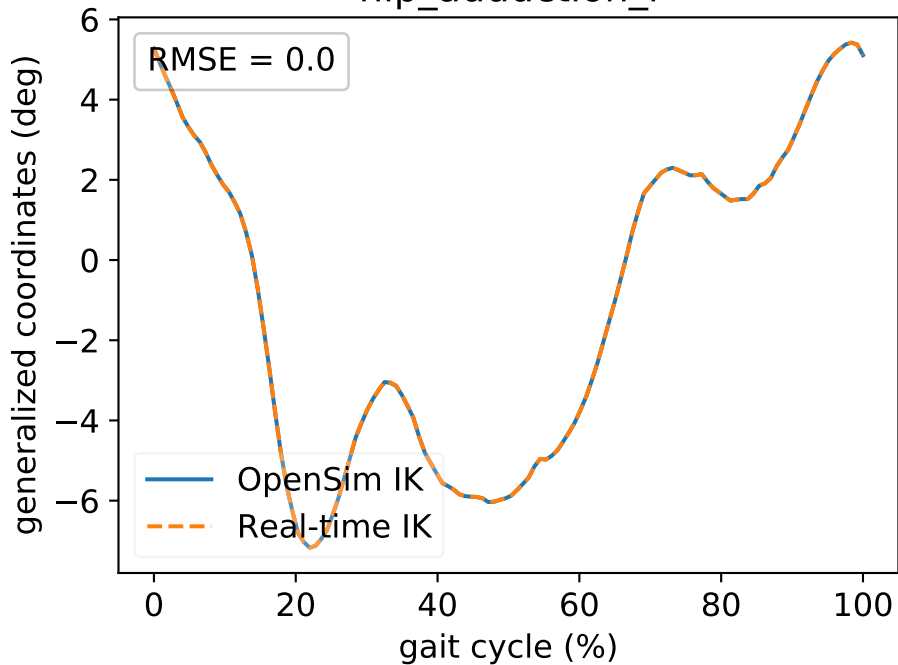




## hip\_flexion\_l

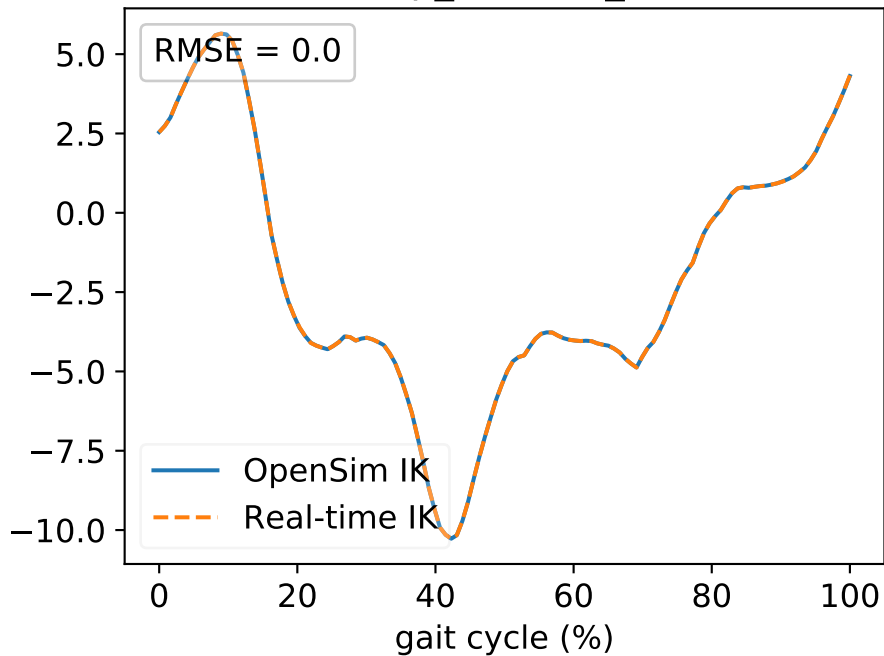


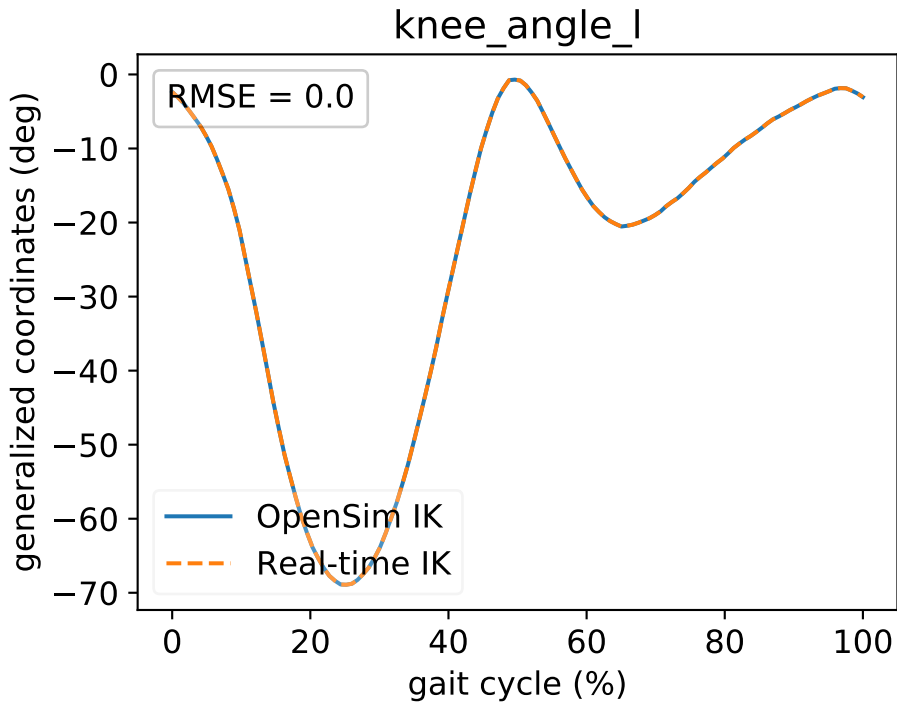
## hip\_adduction\_l



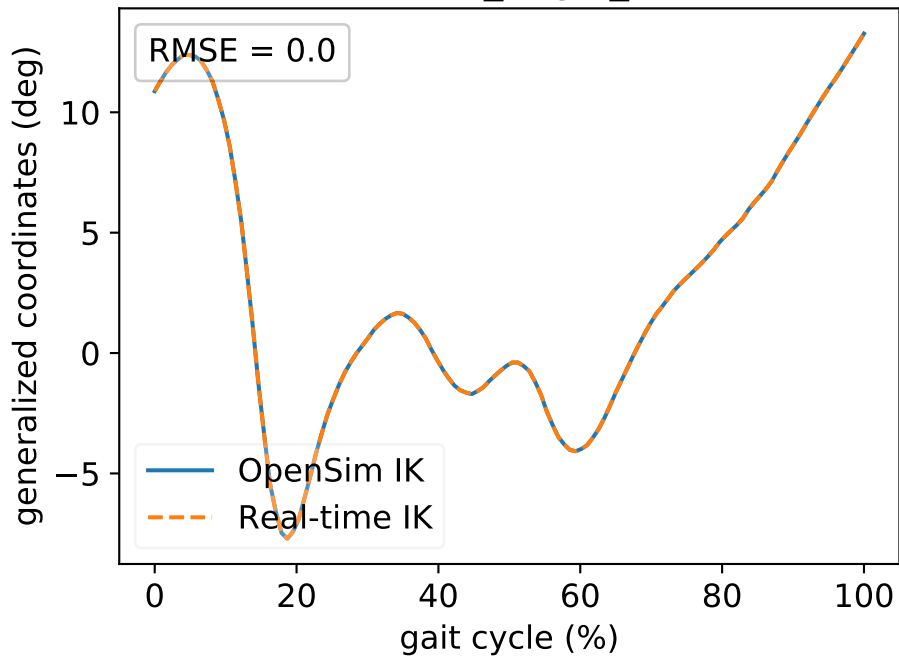
# hip\_rotation\_l

generalized coordinates (deg)



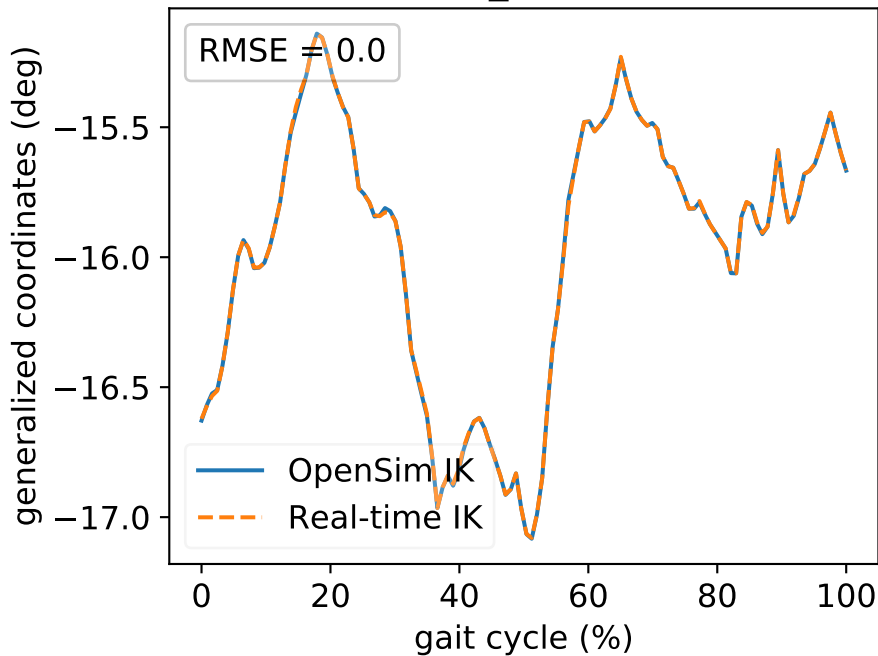


# ankle\_angle\_l

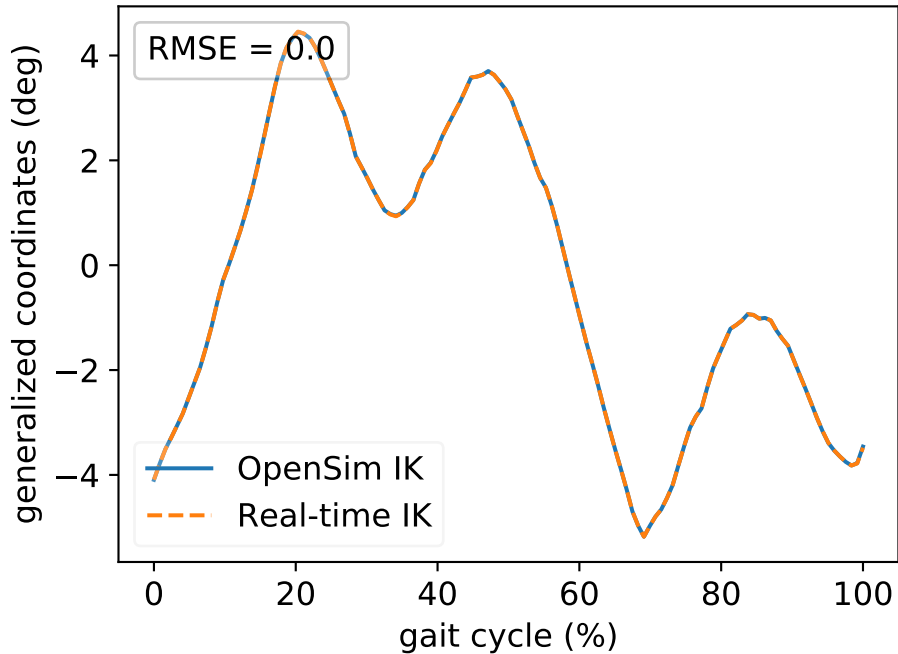




# lumbar\_extension



## lumbar\_bending



## lumbar\_rotation

