1. What is the net joint moment, in the static case, at the ankle joint about the subtalar joint axis (the circle with a dot represents a vector perpendicular to the plane of the drawing) given the situation in the sketch? What is the net joint moment at the knee joint in varus valgus direction?

\[ F_{\text{vert}} = 1800 \text{ N} \]
\[ F_{\text{hor}} = 300 \text{ N} \]
\[ m_{\text{foot}} = 1.4 \text{ kg} \]
\[ l_{\text{sub}} = 0.08 \text{ m} \]
\[ m_{\text{leg}} = 4.0 \text{ kg} \]

What needs to be considered when looking at a moving skeleton?

2. How (much) would the situation change with shoes? Geometry, other effects?

3. What would be the effect of taping/casting (skinne) at the ankle joint?

4. How would a knee cast interfere with this type of movement? E.g.: