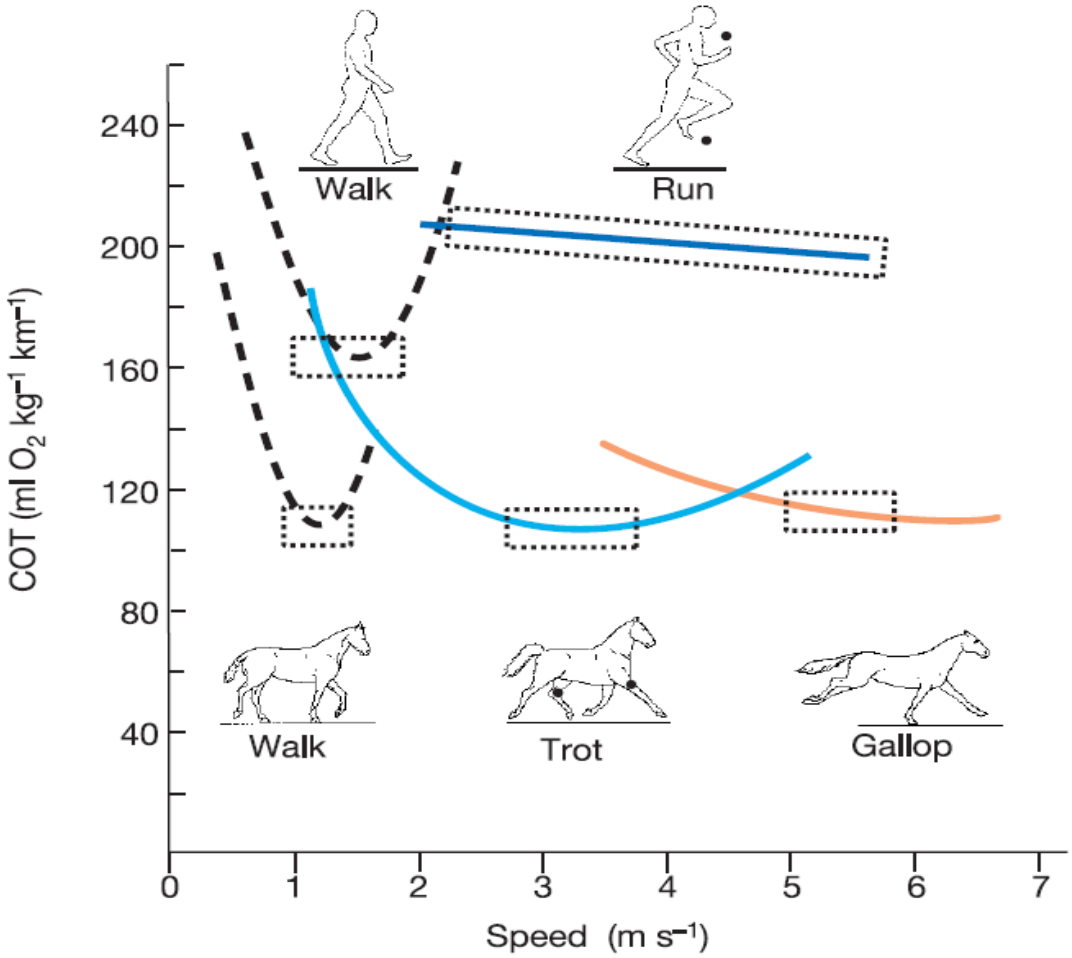
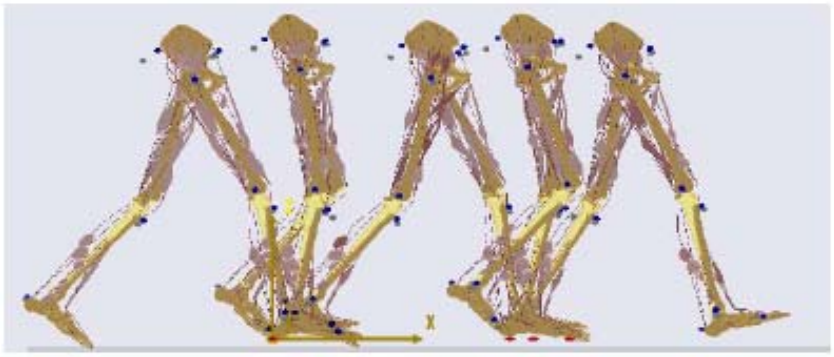
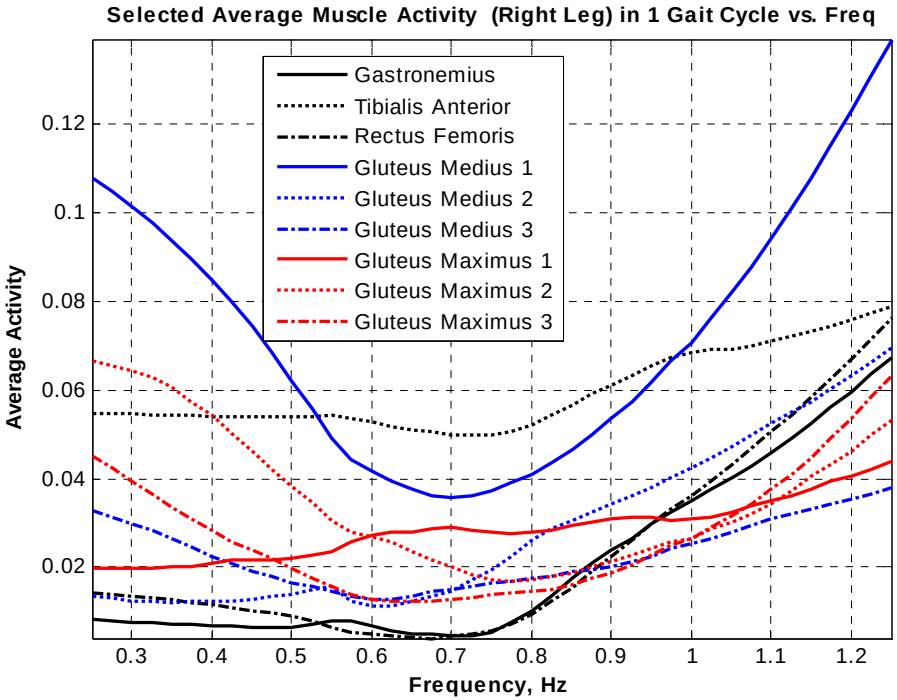
Hypothesis



- Expended effort is minimal when the locomotory appendages/ propulsive structures are moving at steady-state in periodic gaits at their resonant frequencies.

Musculoskeletal Simulation-based Parametric Study of Optimal Gait Frequency in Biped Locomotion. pp 354-359





- Determine optimal gait frequency by musculoskeletal simulation.
- Simple and compound pendulum case studies; followed by human biped locomotion.
- Results match reported mathematical models in the literature.

4:30 - 5:45 PM

Nevada Room

University at Buffalo
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