

The Mathematical Laws of Morphology and Biomechanics

Thursday 20th April 2023 2:30pm EDT

Virtual Presentation: https://purdue.webex.com/meet/aselvite



Prof. Anne Elizabeth Martin

Pennsylvania State University

Department of Mechanical Engineering

Curved feet: How humans roll along while walking

Human feet play a large role in redirecting the center of mass and controlling the center of pressure movement during walking. However, human feet have many degrees of freedom, making detailed foot models unnecessarily complex for many research goals. Instead, human feet can be modeled as curved arcs. This talk will discuss my work modeling human feet as arcs in moderately- complex models as well as discussing how changing foot shape changes gait.







