



COLLEGE OF ENGINEERING
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[Brief Biography](#)

[Research topics](#)

- Mechanics and control of human walking
- Passive dynamic walking
- Adaptive sensorimotor control of human balance
- Age-related changes in balance control
- Force feedback control and human perception
- Automatic generation of equations of motion
- Recruitment of motor units within muscle

[Human Biomechanics and Control Laboratory](#)

[Courses](#)

[Publications](#)

[Students](#)

Other sites

- Go directly to the [UM Passive Dynamic Walking page](#)
 - Go directly to the [Dynamics Workbench page](#)
 - [UM Controls Group](#)
 - [Andy Ruina's page](#) at Cornell
 - [University of Michigan](#)
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