

# Biodynamics Research Lab

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## Research:

- Biomechanics of Balance, Gait and Motor Control.
- Mobility and Postural Instability in Elderly and PD.
- Physical Therapy in PD.
- Computational Neuroscience.



## Collaborators:

Physiology: Paul Cheney, PhD

PD Movement Disorder Center: Kelly Lyons, PhD and Rajesh Pahwa, MD

Physical Therapy: Marissa Clark, MPT

Biostatistics: Jonathan Mahnken, PhD

## Equipment:

Instrumentation: motion analysis, force plates, EMG, load cells & A/D.

Analysis: inverse/direct dynamics, Stim Trig Ave, MATLAB & ADAMS.

## Funding Sources:

NIH, DOD, NSF, AFAR, and Whitaker



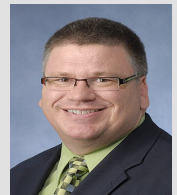
### Director:

**Carl W. Luchies, Ph.D.**

(U Michigan, 1991)

Associate Professor

Mechanical Engineering



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### Courses:

Biomechanics of Human Motion

Experimental Methods in Biomechanics

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Go to [www.bio.engr.ku.edu](http://www.bio.engr.ku.edu) to learn more.