

The Department of Human Movement Sciences

ABOUT US

The Dept of Human Movement Sciences (HMS) has had a long association with the Milwaukee Lakefront Marathon. A number of faculty, staff and students participate in the marathon either as volunteers or runners.

HMS is dedicated to the generation, dissemination, integration, and application of knowledge specific to human movement in health promotion, maintenance, habilitation and rehabilitation in professional settings ranging from health care to education to sport and industry.

We have undergraduate programs in Athletic Training and Kinesiology. Our graduate program is research oriented. We offer a Masters in Kinesiology, PhD in Health Sciences and a Doctor of Physical Therapy.

The Department is committed to conducting applied human movement science research in the areas of Neuromechanics, Exercise Physiology, Human Performance, Psychology and Sociology.

We invite you to explore the department.

How you can be involved

Be a research participant!

Ever wonder how footwear affects gait??

Participate in our study which investigates the effect of different footwear on foot motion during walking and running gait. [Learn More](#)

Do you have knee pain??

We are looking for individuals to participate in a strengthening study.

You will receive all evaluation, testing, and rehabilitation exercises at no cost to you. [Learn More](#)

Exercise testing and body composition analysis are useful to individuals in becoming more active, improving their performance, losing weight and gathering important health information.

Benefit from these [services](#) offered by our Physical Activity and Health Research Laboratory.

For more information on other research and educational opportunities, visit our website at: http://www4.uwm.edu/chs/academics/human_movement_sci/

 Like us on [Facebook](#)



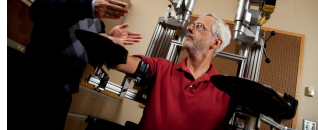
Dr. Victoria Moerchen in her laboratory testing an infant's gait on a customized treadmill



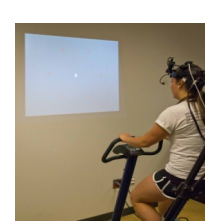
Dr. Kristian O'Connor specializes in the biomechanics of musculoskeletal injury, particularly knee (ACL) injuries.



Dr. Strath and a student measure an individual's energy expenditure.



Dr. Jinsung Wang studies how movement information is stored in the brains when individuals learn a new task.



Cognitive Fatigue Project in Dr. Wendy Huddleston's lab.

Her research explores the brain/cognitive contributions, specifically visual and motor attention, to the decline in movement mechanics associated with fatigue and subsequent injury. In this experiment, participants cycled to fatigue while performing a cognitive task to measure the effect of strenuous activity on brain function.