



# CRIR Scientific Conference

Presented by:  
Jewish Rehabilitation Hospital (JRH), CISSS de Laval



Centre de recherche interdisciplinaire  
en réadaptation du Montréal métropolitain

As part of the "Talking Research" series | Presentations by researchers, postdoctoral fellows or clinicians on the findings of their research projects

-Effects of an omnidirectional treadmill with virtual reality on gait and body segment reorientation during walking and turning.  
-Walking across realities – Comparing overground obstacle avoidance strategies in Augmented, Virtual and Physical reality in response to a static pedestrian



## Thiago Vidal Pereira

MSc Rehabilitation Science (Thesis) student  
McGill University, School of Physical and Occupational Therapy

## Saksham Gupta

B.PT, MSc Rehabilitation Science (Thesis) student,  
McGill University, School of Physical and Occupational therapy

## Thiago Vidal Pereira

**Conference:** Effects of an omnidirectional treadmill with virtual reality on gait and body segment reorientation during walking and turning.

This presentation will explore how omnidirectional treadmills with virtual reality affect gait steering strategies. The study methods and research questions will be presented, followed by results on body segment reorientation onsets and amplitudes, walking speed, step length and cadence. The presentation will end with a discussion of what these results mean for gait research and rehabilitation.

## Saksham Gupta

**Conference:** Walking across realities – Comparing overground obstacle avoidance strategies in Augmented, Virtual and Physical reality in response to a static pedestrian

This interactive presentation, open to all CISSS de Laval rehabilitation programs, will examine how different immersive technologies, virtual reality (VR) and augmented reality (AR), impact our locomotor behaviour while avoiding obstacles, and the perceptual and technological factors behind these changes. During this presentation, participants will have the opportunity to engage.

**Date & Time :** September 16, 2025  
12:00 - 13:00

**Contact :** [Mireia.Carrillo.ciSSLav@ssss.gouv.qc.ca](mailto:Mireia.Carrillo.ciSSLav@ssss.gouv.qc.ca)  
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**Language** English

**Modality : Hybride**

■ **In person:** Jewish Rehabilitation Hospital, Room D 1004

Please confirm your presence:

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or

■ **Virtual:** On Zoom. Please register:

<https://us02web.zoom.us/join/register/uAeRRcChRIyBgwRFaqDXlQ>

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