

# mTBI eye-tracking with enhanced or divided attention

## PURPOSE OF THIS STUDY:

To examine whether smooth pursuit eye movements with moving background distractors or additional working memory load had better diagnostic performance than smooth pursuit eye movement alone. Preliminary evidence suggests that deficits in smooth pursuit eye movement can be used as a diagnostic indicator of mild traumatic brain injury, and our study aims to advance the research in eye movement and dual-task paradigms in mild traumatic brain injury.

## WHO CAN PARTICIPATE?

Individuals who have sustained a mild traumatic brain injury within the past two years and are still experiencing symptoms and healthy controls. Participants must be between the age of 18 and 50 years old, and have normal or corrected-to-normal visual acuity.

## WHAT IS INVOLVED?

One 45-minute visit to the Human Vision and Eye Movement Laboratory in the VGH Eye Care Centre (2550 Willow St). Consented participants will perform eight one-minute eye-tracking tasks and four brief questionnaires. Financial compensation and additional opportunities to participate will be offered.

## CONTACT INFORMATION:

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To learn more about this study, visit [vchri.ca/participate](http://vchri.ca/participate)

## STUDY TIME/DURATION

June 1, 2018 -  
August 30, 2019

## STUDY LOCATION

Human Vision and Eye  
Movement Laboratory  
360a-2550 Willow Street,  
Vancouver

## PRINCIPAL INVESTIGATOR

Dr. Jason Barton  
Professor, Neurology,  
Ophthalmology and Visual  
Sciences  
Research Investigator with  
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