



RESEARCH2REALITY

Shining a light on research & innovation.

It Takes a Community to Raise a Cure

An Interview with researchers at York University's **Vision: Science to Applications (VISTA)** program

Lauren Sergio, Health Scientist

Robert Allison, Virtual Reality Scientist

Laurence Harris, Neuroscientist

Lauren Sergio

When you're doing something as complicated as trying to understand how the brain controls movement, there's no way you can do that on your own. So fortunately here at York University, and with the VISTA program, we have these teams.

My main collaborator is Rob Allison, and he has an engineering background and is a vision scientist. I have a movement scientist background. And so we're able to come together to look at visuomotor issues.

Robert Allison

Our work is mostly on the behavioural response: how we perceive depth in the world around us, our self-motion in the world around us. But in order to ground that in terms of biology we need to work with neurophysiologists, people who do brain imaging, psychologists. There's a lot of work in computer vision that can be related to human vision.

Lauren Sergio

We've got this really cool beta going that's going to integrate computer vision and computer vision algorithms to objectively assess people's mobility, using basically a Kinect system that we hacked into, and again it's the sort of thing where we need to have that sort of collaboration or it just wouldn't get done.

TODAY'S RESEARCH. TOMORROW'S REALITY.

