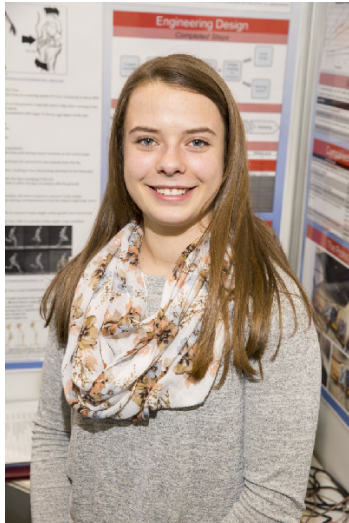


# CWSF 2015 - Fredericton, New Brunswick



## Marie Floryan

### Development of Assistive Technology for Recovery from ACL Injury

**Challenge:** Innovation

**Category:** Senior

**Region:** Thames Valley

**City:** London, ON

**School:** A.B. Lucas S.S.

**Abstract:** A system for the quantification of ACL rehab exercise instructions has been proposed with the hope that its use may lead to acceleration of the recovery. The system relies of the continuous force monitoring in the injured leg. The system has various exercise-related applications, such as quantifying other types of rehab, and improving running biomechanics.

#### Biography

My name is Marie Floryan and I am a grade 12 student at A.B. Lucas Secondary School. I enjoy playing sports. I played soccer and volleyball competitively, and was apart of my high school's basketball, volleyball, soccer, badminton, and track and field teams. My inspiration for my project came when I tore my ACL at the beginning of my final year at high school. My goals are to improve the ACL rehab process by decreasing the rehab time and by improving the overall quality of life after ACL reconstructive surgery, as well as to improve digital fitness methods.

#### Awards

#### Value

Excellence Award - Senior - Bronze Medal Sponsor: Youth Science Canada	
University of Ottawa Entrance Scholarship Senior Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Ottawa	\$1 000
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$2 000