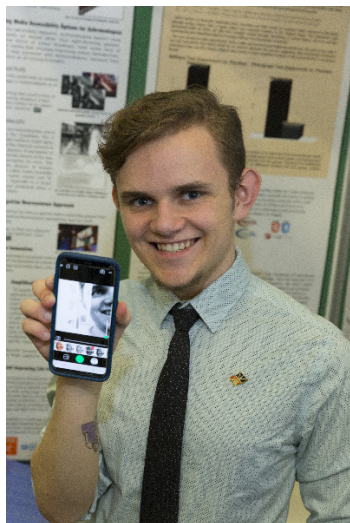


CWSF 2018 - Ottawa, Ontario



Mitchell Hynes

Saturization: A New Method for Contrast in Monochromatic Vision

Challenge: Innovation

Category: Senior

Region: Eastern Newfoundland

City: Paradise, NL

School: Holy Heart High School

Abstract: Extreme colour blindness is no joke, every day 1 in 40,000 people are born with Achromatopsia. Every day these people struggle with watching movies, playing videogames, and even going outside. My project is a computer algorithm to treat media, for easier viewing with grey vision. My method is innovative, one of a kind, and where it comes from is totally unexpected!

Biography

Originally my method was a simple art project, to algorithmically make colours pop when compared together. When I was presenting it to a friend, something clicked. I realized it could help people with monochromatic vision, who cannot contrast colours like we can. There are already methods for treating people with colour blindness, but not of this type, achromatopsia is generally ignored in media treatments for colourblindness. My plans for future observations are to implement this method into the web, for a better web browsing experience for people with achromatopsia, as well as using it to increase accessibility to public parks, and to improve movies and viewing experiences. The advice I'd give to other students planning on doing a project is to go for it! Be laser-focused on what matters to you, and improving life on earth.

Awards

Value

Excellence Award - Senior - Bronze Medal Sponsor: Youth Science Canada	
Carleton University Entrance Award Senior Bronze Medallist - \$1,000 Entrance Award Sponsor: Carleton University	\$1 000
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	\$3 000