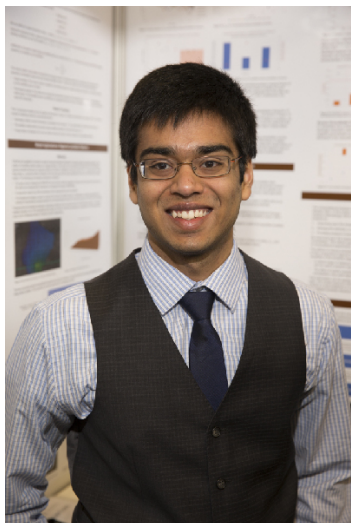


## CWSF 2016 - Montreal, Quebec



### Nitish Bhatt

#### **CALM: A Computational Approach for Landslide Mitigation and Study**

**Challenge:** Discovery

**Category:** Senior

**Region:** Eastern Newfoundland

**City:** St. John's, NL

**School:** Gonzaga H.S.

**Abstract:** This project develops a Computational Approach for Landslide Mitigation and Study (CALM) which provides analysis of the exposure of human and infrastructure assets to potential precipitation triggered landslide. Using computational experiments, CALM is applied to study regional landslide patterns and determine the effect of spatial and temporal variability of precipitation upon regional landslide risks. Subsequently, CALM is used to study optimal regional landslide mitigation strategies.

#### Biography

My name is Nitish Bhatt, and I am a Grade 12 student from Gonzaga High School in St. John's Newfoundland. My inspiration in the science stems from my firm belief that knowledge is empowerment. In school have taken and enjoy advanced Physics and Chemistry courses. My studies in science have sparked my interests in exploring the field of physics and systems engineering. I hope to pursue a career in this field to further my knowledge and understanding of natural systems. In my projects, I have used computational modelling of natural systems to explore natural phenomena; most recently landslides. The boundary where science can be used to help improve lives and livelihoods is my major inspiration. Outside of my activities in science, I also hold community service as an integral activity. I volunteer with local organizations like the Canadian Blood Services and Association of New Canadians. I am also the founder of an organization called United4Literacy which works to empower children through education and knowledge. Ultimately, I believe that my interests, whether they be science or social justice stem from my passion; and the continual pursuit of passion is the greatest advice I've ever received.

#### Awards

#### Value

CAP Physics Prize - Senior Sponsor: Canadian Association of Physicists	\$1 000
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
<b>Total</b>	<b>\$3 000</b>

