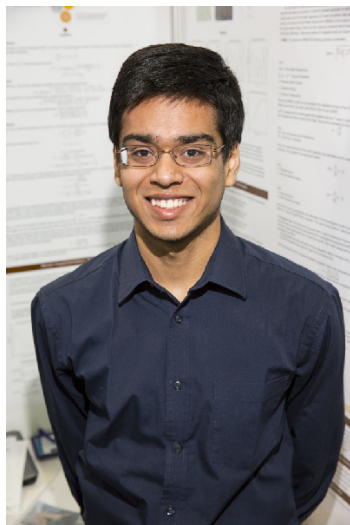


# CWSF 2015 - Fredericton, New Brunswick



## Nitish Bhatt

### COMPEL: A Novel Comprehensive Physical Environment Influenced Landslide Model

**Challenge:** Discovery

**Category:** Senior

**Region:** Eastern Newfoundland

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

**School:** Gonzaga H.S.

**Abstract:** Every year landslides devastate regions worldwide. Hence, this project fuses together two streams of research within landslide dynamics by creating a novel comprehensive environment influenced landslide model (COMPEL). A series of computational experiments and tests are conducted to determine functionality, applicability and accuracy of the model. The applications of the model range from kinematic analysis of future environment influenced landslides to design of mitigation techniques.

#### Biography

My name is Nitish Bhatt, and I am a Grade 11 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. At the regional science fair, I received to honor of being "Best in Fair" as well as receiving awards from Memorial University Department of Physics and the Institute of Electrical and Electronics Engineers. 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.

#### Awards

#### Value

|  |                 |
|--|-----------------|
| Excellence Award - Senior - Silver Medal<br>Sponsor: Youth Science Canada  |                 |
| Dalhousie University Faculty of Science Entrance Scholarship<br>Senior Silver Medallist - \$2500 Entrance Scholarship<br>Sponsor: Dalhousie University, Faculty of Science | \$2 500         |
| UBC Science (Vancouver) Entrance Award<br>Senior Silver Medallist - \$2000 Entrance Scholarship<br>Sponsor: The University of British Columbia (Vancouver)                 | \$2 000         |
| University of New Brunswick Canada-Wide Science Fair Scholarship<br>Silver Medallist - \$2500 Entrance Scholarship<br>Sponsor: University of New Brunswick                 | \$2 500         |
| University of Ottawa Entrance Scholarship<br>Senior Silver Medallist - \$2000 Entrance Scholarship<br>Sponsor: University of Ottawa  | \$2 000         |
| Western University Scholarship<br>Silver Medallist - \$2000 Entrance Scholarship<br>Sponsor: Western University  | \$2 000         |
| <b>Total</b>   | <b>\$11 000</b> |