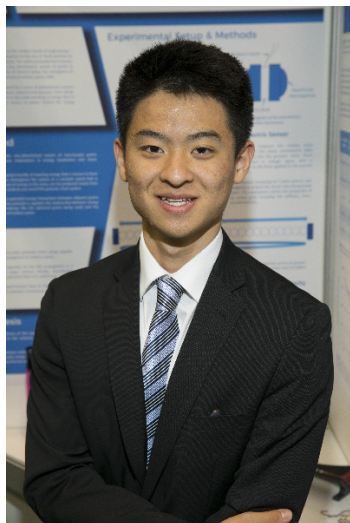


## ESPC 2017 - Regina (Saskatchewan)



### Bob Wei

#### Solitary Wave Propagation in a Novel Granular Chain Setup

**Défi:** Innovation

**Catégorie:** Sénior

**Région:** Niagara

**Ville:** Caledon, ON

**École:** Sir Winston Churchill

**Sommaire:** Granular materials are ubiquitous in the modern world of engineering?from the gravel used in civil construction to the small particles used in shock absorption. The work presented here focuses on the mechanical energy transformations in a one-dimensional system known as the granular chain. Specifically, a novel apparatus was developed for the study, providing an experimental emphasis in a field that is predominantly theoretical and simulation-based.

#### Biographie

My name is Bob Wei and I am a grade 12 student at Sir Winston Churchill Secondary School in St. Catharines, Ontario. Growing up, I have always been interested in the mathematics and sciences and this has culminated in my future career path in computer science. Outside of school, I am a competitive rower and I am also involved in the community through volunteering and student politics. Next year, I will be studying software engineering at the University of Waterloo.

#### Prix

#### Valeur

Prix d'excellence - Senior - Médaille de bronze Commanditaire: Sciences jeunesse Canada	
Bourse d'admission de l'Université d'Ottawa Médaille de bronze, sénior ? Bourse d'admission de 1 000 \$ Commanditaire: Université d'Ottawa	1 000,00 \$
Bourse d'études de Western University Médaille de bronze - Bourse d'admission de 1 000 \$ Commanditaire: Université Western	1 000,00 \$
Total	2 000,00 \$