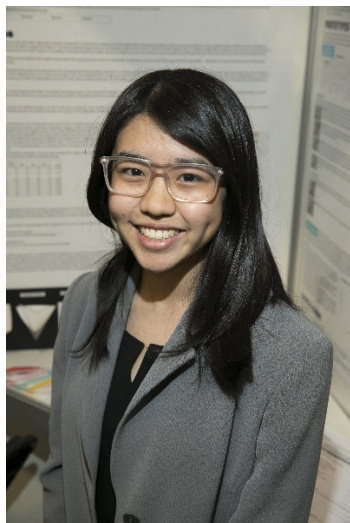


# CWSF 2017 - Regina, Saskatchewan



## Katelyn Wang

### Efficient Design of Disposable Cough Filtration and Virus Containment Device

**Challenge:** Innovation

**Category:** Intermediate

**Region:** York

**City:** Richmond Hill, ON

**School:** Richmond Hill H.S.

**Abstract:** This project aimed to design a simple, portable device to minimize the spread of the airborne viruses to be used particularly in public areas. The study analyzed the effectiveness of the different designs and materials to determine an optimal approach to limit germ spread in order to reduce disease transmission.

#### Biography

Katelyn Wang is a 10th grade student attending Richmond Hill High School. She is very excited to be returning to CWSF for the second time to share her work. This year, her project drew inspiration from the prevalence of the common cold and influenza in society, as well as, her interest in origami. Combining these aspects, she designed a device to effectively reduce germ spread. It is her hope that this product will be widely used one day in the future. Apart from science, she enjoys creative writing, debate, drawing, playing piano, and long distance running. She also participates in DECA, and placed 3rd at the International Career Development Conference in 2016. Katelyn strives to apply her passions to find unique solutions to challenging issues, and help improve the world.

#### Awards

#### Value

Excellence Award - Intermediate - Gold Medal Sponsor: Youth Science Canada	\$250
Western University Scholarship Gold Medallist - \$4000 Entrance Scholarship Sponsor: Western University	\$4 000
Total	\$4 250