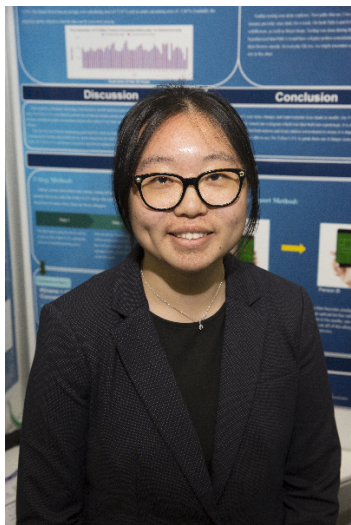


CWSF 2019 - Fredericton, New Brunswick



Wendy Fang

The Pollen GPS

Challenge: Innovation

Category: Intermediate

Region: Greater Vancouver

City: Burnaby, BC

School: Moscrop Secondary

Abstract: The fear of allergy outbreaks and the feeling of not knowing which areas have high or low pollen concentration is the biggest concern for many during allergy season. I created a portable device that can give real-time data for the percentage of pollen in specific areas. This product will allow allergy-suffers to be able navigate themselves to areas with lower percentages of allergens.

Biography

Wendy Fang is currently a grade 10 student attending school in Burnaby, BC. She has a strong passion in the areas of science and math, leading her to becoming an active member of her school's math team, competing in various competitions and participating in multiple science events where she is able to share her ideas and learn from others. In addition, Wendy is leading a school club where problem solving, creativity, and communication coalesce to create helpful projects for the community. Overall, medical science in particular has always been the main area of her interest. Always curious about pioneering health improvements and breakthroughs, she stumbled upon the problem of allergy outbreaks. After further research, she discovered that more than one out of six Canadians suffer from allergies each year. Consequently, she wanted to find a way to help those people during allergy season. Her goal was to create a portable device that would be able to provide real-time pollen concentration reports to allergy-sufferers, so they would be able to navigate themselves to areas that are less contaminated by allergens. In the future she hopes to do more work in the field of medicine and become a doctor.

Awards

Value

Excellence Award - Intermediate - Silver Medal Sponsor: Youth Science Canada	
Western University Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: Western University	\$2 000
Total	\$2 000