



CWSF 2018 - Ottawa, Ontario



Biographies

Jing - My name is Jing Wang. I am from China where I finished Grade 10 last year and I am now studying in North Toronto C.I. I am especially interested in computation and logic, which has led to considerable abilities of mine in mathematics and computer science. In the past years, I have achieved great results in math contests such as AIME, Fermat, Euclid and those in China. Moreover, in the field of computer science, I have been able to use programming languages in my favour since Grade 10. So far, I have written several applications including games, problem solvers, puzzle templates and my current project with Yiyuan Ma --- cancer detection AI. I ...

Yi Yuan - I am a grade 11 high school student in North Toronto Collegiate Institute. I have a passion for improving health care diagnosis by using innovative technology. My partner and I were inspired to create a breast cancer detection AI after hearing about the inaccurate and slow process in developing pathology reports. Thus, we decided to use AI to solve this pressing problem.

Jing Wang, Yi Yuan Ma

Cancer Detection with Artificial Intelligence

Challenge:	Health
Category:	Senior
Region:	Toronto
City:	Toronto, ON, North York, ON
School:	North Toronto
Abstract:	Breast cancer is the most common cancer in women. However, its diagnosis could be delayed due to time-consuming and inaccurate biopsy interpretation. To solve this problem, we designed a machine learning program to inform pathologists of potential malignant tumours, greatly reducing the likelihood of misdiagnosis and increasing interpretation efficiency.

Awards	Value
Excellence Award - Senior - Bronze Medal	
Sponsor: Youth Science Canada	
Carleton University Entrance Award	\$1 000
Senior Bronze Medallist - \$1,000 Entrance Award	
Sponsor: Carleton University	
University of Ottawa Entrance Scholarship	\$1 000
Senior Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: University of Ottawa	
Western University Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: Western University	
Total	\$3 000



Youth Science Canada PO Box 297 Pickering ON L1V 2R4 www.youthscience.ca / info@youthscience.ca 416-341-0040

