

CWSF 2013 - Lethbridge, Alberta



Biography

My name is Jielin Lu, I am currently a grade twelve Extended French student at Sir Winston Churchill Secondary school in St. Catharines, Ontario. There, I peer tutor, and am a member of Teens for Change, robotics, MOSAIC, school newspaper, and yoga club. Outside of school, I play the violin, badminton, and volunteer as part of many community groups such as the Mayor's Youth Advisory Committee (MYAC) and the TO2015 Pan/Parapan American Games YAC, working with other members to promote youth engagement. Post-secondary, I plan to attend university, pursuing studies in the field of science. I was inspired to do this project as I have always been fascinated by the field of neuroscience and how the brain works. As a multilingual speaker (English, Chinese, French) and someone passionate about learning new languages, I was also curious to know how these two fields could connect. As further investigation, the plan is to see how the findings can be extrapolated to other visual-based language processes. My advice to students thinking about doing a project is to find a topic which interests you: you will have fun doing your research, and it will be truly exciting to get results for your hard work.

Jielin Lu

Effects of Language Fluency and Priming: An EEG Study

Challenge:	Health
Category:	Senior
Region:	Niagara
City:	St.Catharines, ON
School:	Sir Winston Churchill
Abstract:	Response to words in the first language is generally faster than the second language, due to our brains being better primed to the first language (more repetition of seeing these words). Using EEG analysis, this project examines an individual's brainwave patterns during a word classification task and its correlation to their level of language fluency, to find an objective measure for fluency.

Awards	Value
Excellence Award - Senior - Silver Medal	\$300
Sponsor: Youth Science Canada	
Dalhousie University Faculty of Science Entrance Scholarship	\$2 500
Senior Silver Medallist - \$2500 Entrance Scholarship	
Sponsor: Dalhousie University, Faculty of Science	
UBC Science (Vancouver) Entrance Award	\$2 000
Senior Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: The University of British Columbia (Vancouver)	
University of Ottawa Entrance Scholarship	\$2 000
Senior Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: University of Ottawa	
Western University Scholarship	\$2 000
Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: Western University	
Total	\$8 800



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