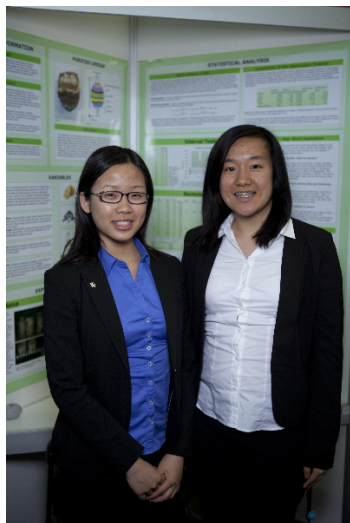


# CWSF 2013 - Lethbridge, Alberta



## Monica Xu, Nicole Zhao

### The Coconut Factor

**Challenge:** Environment

**Category:** Intermediate

**Region:** York

**City:** Markham, ON

**School:** Bayview S.S., Markville S.S.

**Abstract:** This project took a creative approach towards improving current water purification systems by creating a 100% biodegradable water purifier using coconut shells. Various experiments and statistical tests proved the purifier capable of removing a maximum of 99.38% of all bacterial contamination from pond water. Through this project, we hope to promote the idea of using environmentally friendly alternatives to replace harmful chemical water purification methods.

### Biographies

Monica - Hi, I'm Monica Xu (a Coconuteer) and I am currently enrolled in the Pre-IB program at Bayview Secondary School. Aside from spending my time watching science-oriented YouTube videos, I partake in a variety of activities such as playing piano, clarinet, badminton, chess, singing, and volunteering. I am also an avid debater, and Junior Champion at York University HS Debate Tournament. I have also received many honors in math contests. Furthermore, I am a recipient of the YRDSB Celebrating Student Success Award. I have been attending science fairs for nearly two years and have enjoyed every one of them. This year, my partner and I got the inspira...

Nicole - Hi! I'm Nicole, a grade 9 Coconuteer from Markville Secondary School. I am a part of my school's DECA and MUN chapter, and I have worked as a bi-weekly columnist for a local English newspaper in China. I try to make a lot of time for reading and writing, and I keep a sketchbook to keep track of all the wonderful things that I have yet to find words to describe. My favourite word as a child has always been "why"; it didn't take me long to realize that science is always the answer to these questions. Science fascinates me because I think it is the most powerful tool we have to change the world with. In the future, I hope to combine my pas...

### Awards

### Value

Excellence Award - Intermediate - Bronze Medal Sponsor: Youth Science Canada	\$100
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
<b>Total</b>	<b>\$1 100</b>