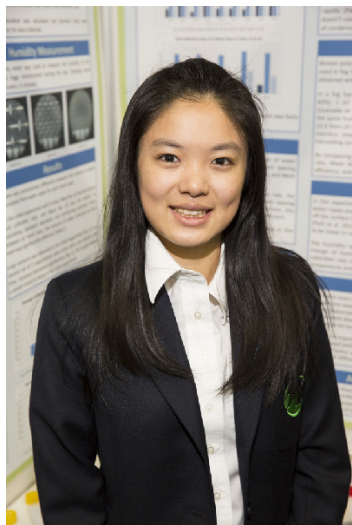


# CWSF 2015 - Fredericton, New Brunswick



## Yoyo Ding

### Inmeshtigation: comparison of water vapour collection of 3 mesh sizes

**Challenge:** Resources

**Category:** Senior

**Region:** Greater Vancouver

**City:** Vancouver, BC

**School:** Crofton House

**Abstract:** Fog harvesting is a technique that collects water with large mesh structures in an environment with persistent fog. To investigate the relationship between mesh size and optimal water collection, this study tested three mesh sizes in a closed system that simulated a foggy environment. Surprisingly, the middle size was the most efficient, suggesting there is an ideal mesh size to optimize water collection.

#### Biography

My name is Yoyo Ding, and I am currently a grade 11 student at Crofton House School in Vancouver. I am not only a figure skater, a pianist, an artist, and a mathematician, but also a student of science. My project focuses on fog harvesting system, a topic that I found through natural phenomenon of water condensation and landed on because of its potential real-world application. Despite the lots of fascinating knowledge I have learnt through this project, going forward, I want to dig deeper in the topics related to water resource management and extend my research beyond a specific technique. Creativity is a main component of my project, and it is definitely the most valuable in terms of extending my vision beyond the boundary. If students are considering doing science projects in the future, creativity should also be taken into consideration.

#### Awards

#### Value

Canadian Stockholm Junior Water Prize - Senior Sponsor: Canadian WEF Member Associations, the Canadian Water and Wastewater Association, and Jacobs	\$2 000
Excellence Award - Senior - Bronze Medal Sponsor: Youth Science Canada	
University of Ottawa Entrance Scholarship Senior Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Ottawa	\$1 000
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
<b>Total</b>	<b>\$4 000</b>