

**The Actuarial Foundation of Canada Award**  
**Prix de La Fondation actuarielle du Canada**  
Junior

**Abereham Moges**

**Mood Foods: Testing the Impact of Nutrients on Cognitive Function and Reversing Neurodegeneration**

Western Manitoba – Manitoba





**The Actuarial Foundation of Canada Award  
Prix de La Fondation actuarielle du Canada**  
Intermediate / Intermédiaire

**Kaitlyn Chan**

**Predicting Surgical Patient Outcomes**

Vancouver Island – British Columbia





**The Actuarial Foundation of Canada Award  
Prix de La Fondation actuarielle du Canada**  
Senior / Sénior

**Artash Nath**

**Deep Learning for Marine Mammal Conservation: Multi-Species Detection  
and Underwater Noise Assessment**

Toronto – Ontario





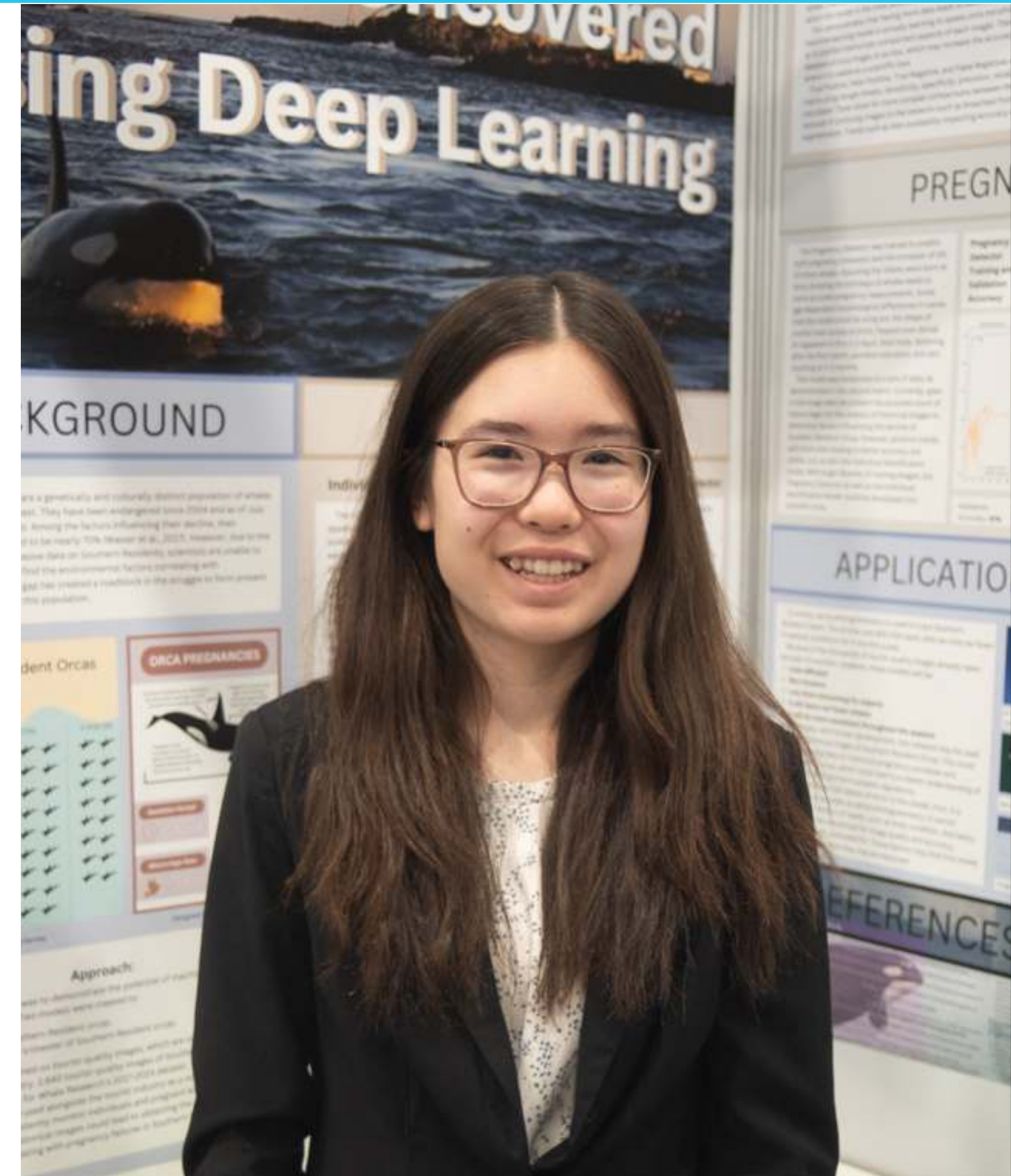
**The Beaty Centre for Species Discovery Award  
Prix du Centre Beaty pour la découverte des espèces**

Junior

**Nara Harvey**

**Using Deep Learning to Understand Endangered Orca Pregnancies**

Greater Vancouver – British Columbia





# The Beaty Centre for Species Discovery Award Prix du Centre Beaty pour la découverte des espèces

Intermediate / Intermédiaire

## Sarah Murimboh

Friend or Foe: Evaluating the Toxicity of Natural Pesticides on Springtails

Annapolis Valley – Nova Scotia





The Beaty Centre for Species Discovery Award  
Prix du Centre Beaty pour la découverte des espèces

Senior / Sénior

Jonathan Leung

Comparing Spider Diversity between 2 Farming Communities & Assessing Alpha, Beta & Gamma Diversities

Greater Vancouver – British Columbia





**Canadian Acoustical Association Award  
Prix de l'Association canadienne d'acoustique**

Senior / Sénior

**Artash Nath**

**Deep Learning for Marine Mammal Conservation: Multi-Species Detection  
and Underwater Noise Assessment**

Toronto – Ontario





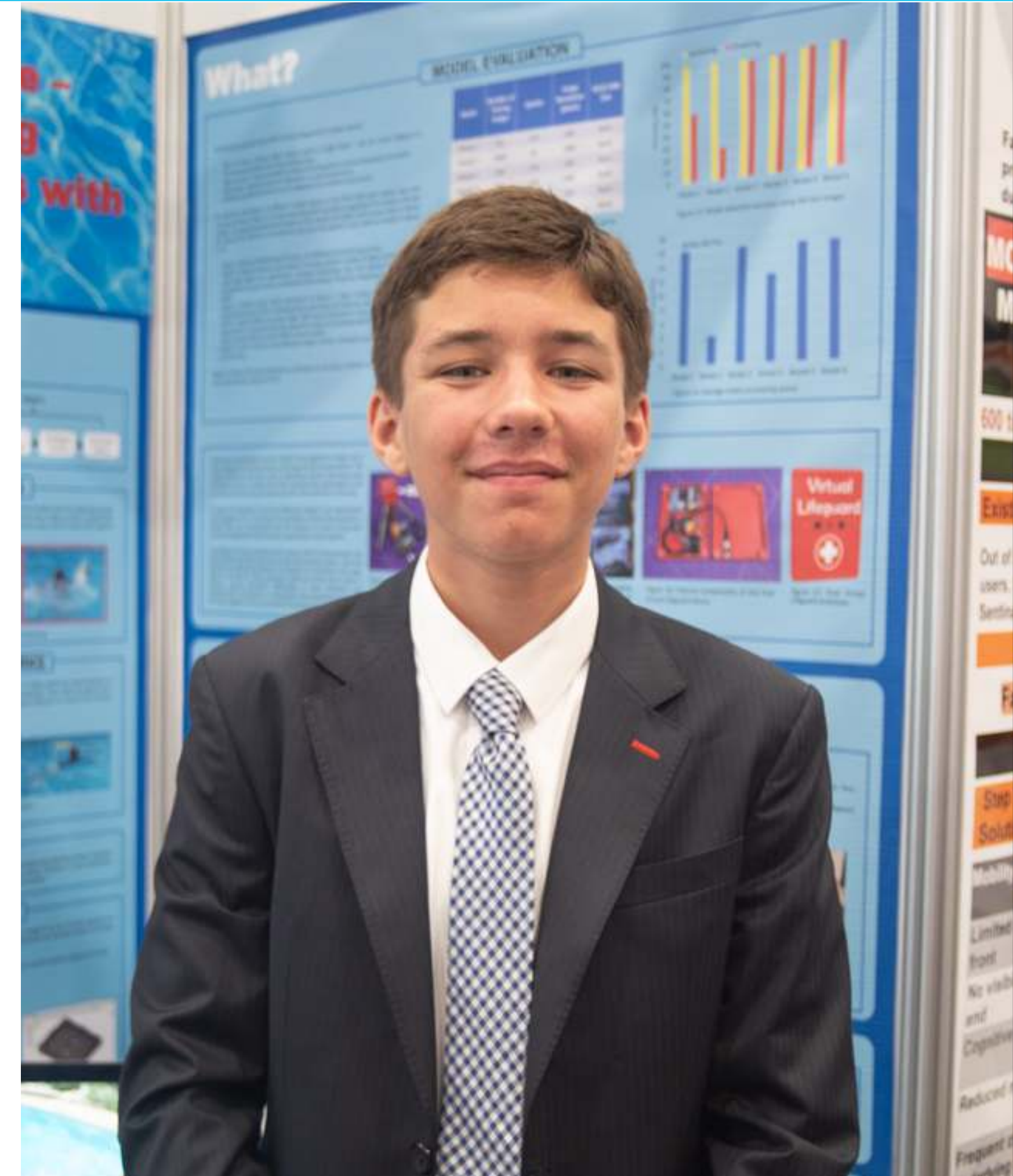
**Canadian Artificial Intelligence Association Award  
Prix de l'Association pour l'intelligence artificielle au Canada**

Junior

**Evan Budz**

**Virtual Lifeguard: A Novel AI Approach to Drowning Prevention**

Bay Area - Ontario





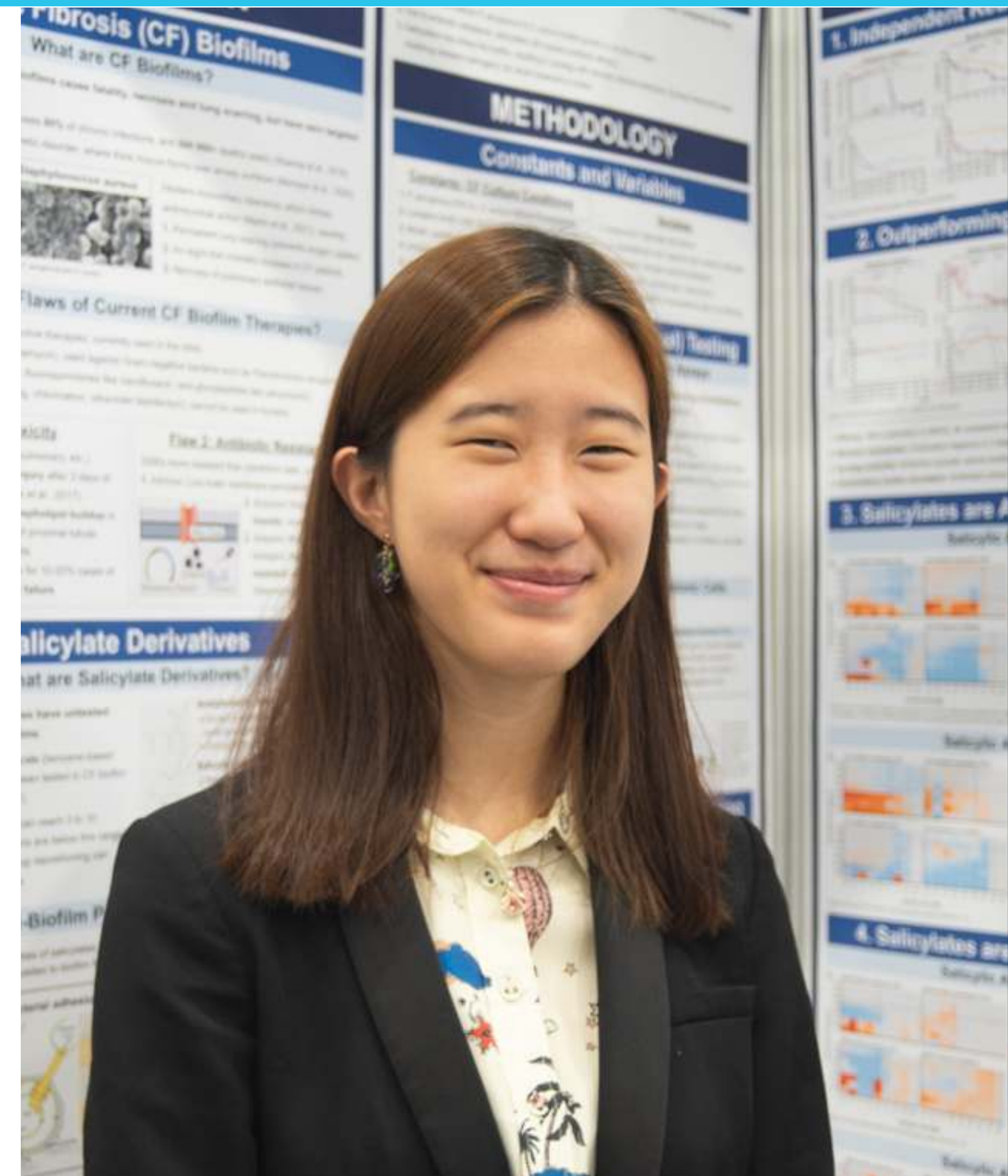
**Canadian Society of Clinical Chemists Award  
Prix de la Société canadienne des clinico-chimistes**

Senior / Sénior

**Ann Wang**

**Eradicating Cystic Fibrosis Biofilms by a Novel Non-Toxic, Multi-Pathway Salicylate Therapy**

Greater Vancouver – British Columbia





## Canadian Stockholm Junior Water Prize

Prix du concours junior canadien au sujet de l'eau, ☒ Stockholm

Senior / Sénior

## Noah Bryan

Is the water safe to drink? The rapid test is the missing link!

Canadian Black Scientists Network Youth

Canadian WEF Member Associations, the  
Canadian Water and Wastewater Association  
and Jacobs





## Canadian Stockholm Junior Water Prize

Prix du concours junior canadien au sujet de l'eau, ☒ Stockholm

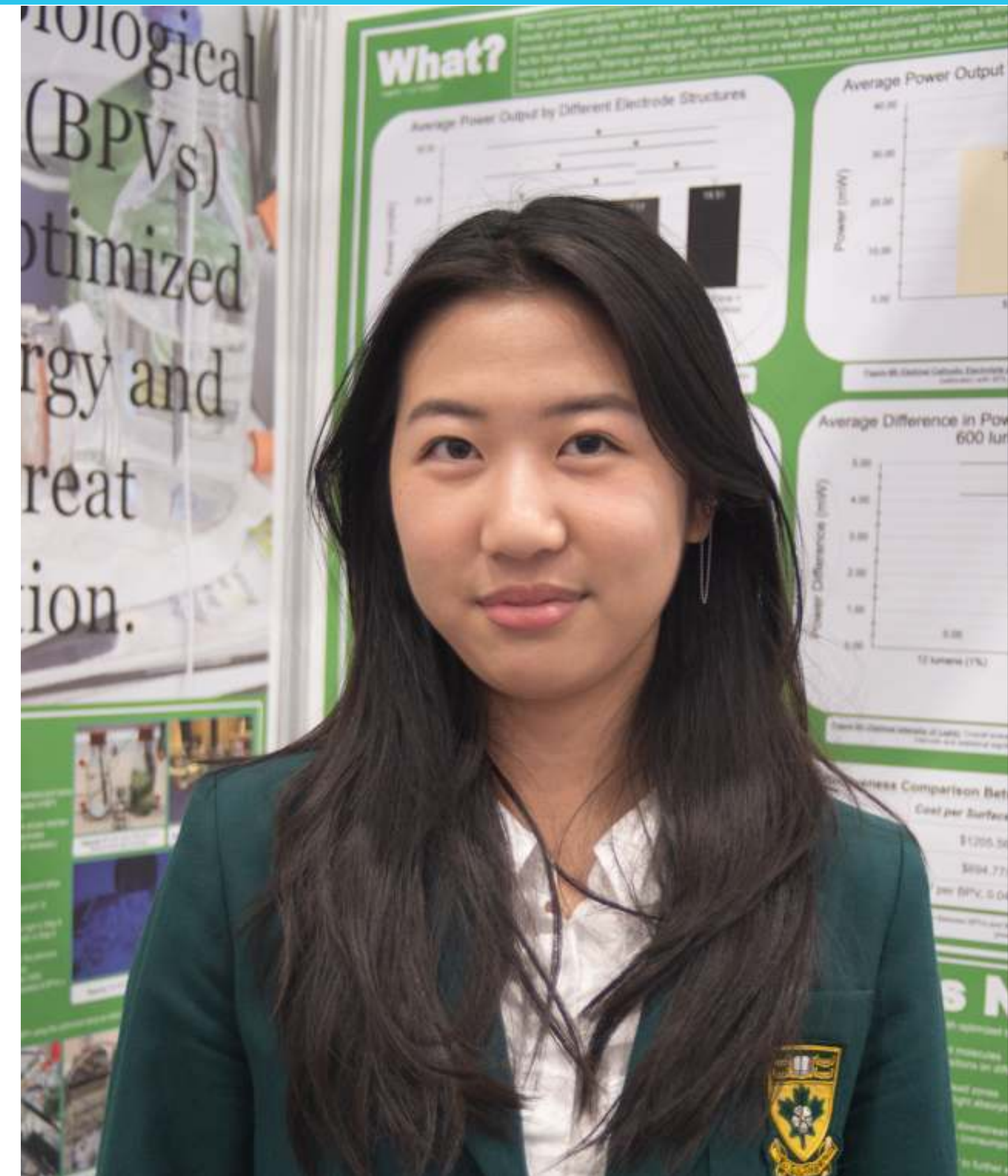
Senior / Sénior

## Veronica Guo

A Novel, Cost-Effective Biological Photovoltaic for Wastewater Treatment

Greater Vancouver – British Columbia

Canadian WEF Member Associations, the  
Canadian Water and Wastewater Association  
and Jacobs





## Canadian Stockholm Junior Water Prize

## Prix du concours junior canadien au sujet de l'eau, ☒ Stockholm

Senior / Sénior

# Ava Haynes

## Observing and Culturing Cyanobacteria

Saskatchewan First Nations – Saskatchewan

Canadian WEF Member Associations, the  
Canadian Water and Wastewater Association  
and Jacobs





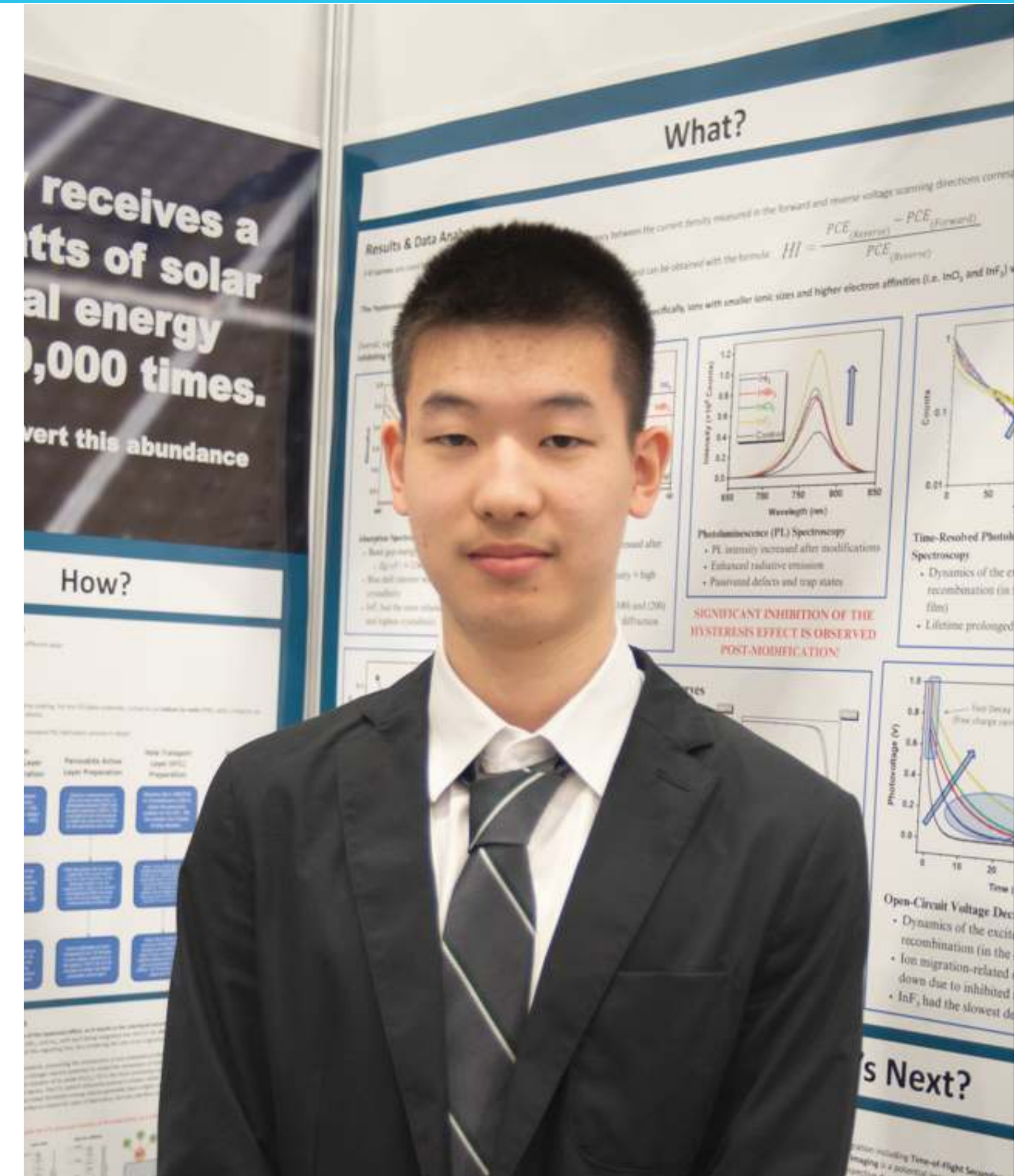
**CAP Physics Prize**  
**Prix en physique de l'ACP**

Senior / Sénior

**Victor Xu**

**Hysteresis Inhibition for Performance Improvement via Halide Engineering in Perovskite Solar Cells**

Toronto – Ontario





deutraMed Chemistry and Innovation Award  
Prix deutraMed pour l'innovation en chimie

Junior

# Justin Guo

Plastic degradation through a novel Thermal Electro-Fenton System

Greater Vancouver – British Columbia



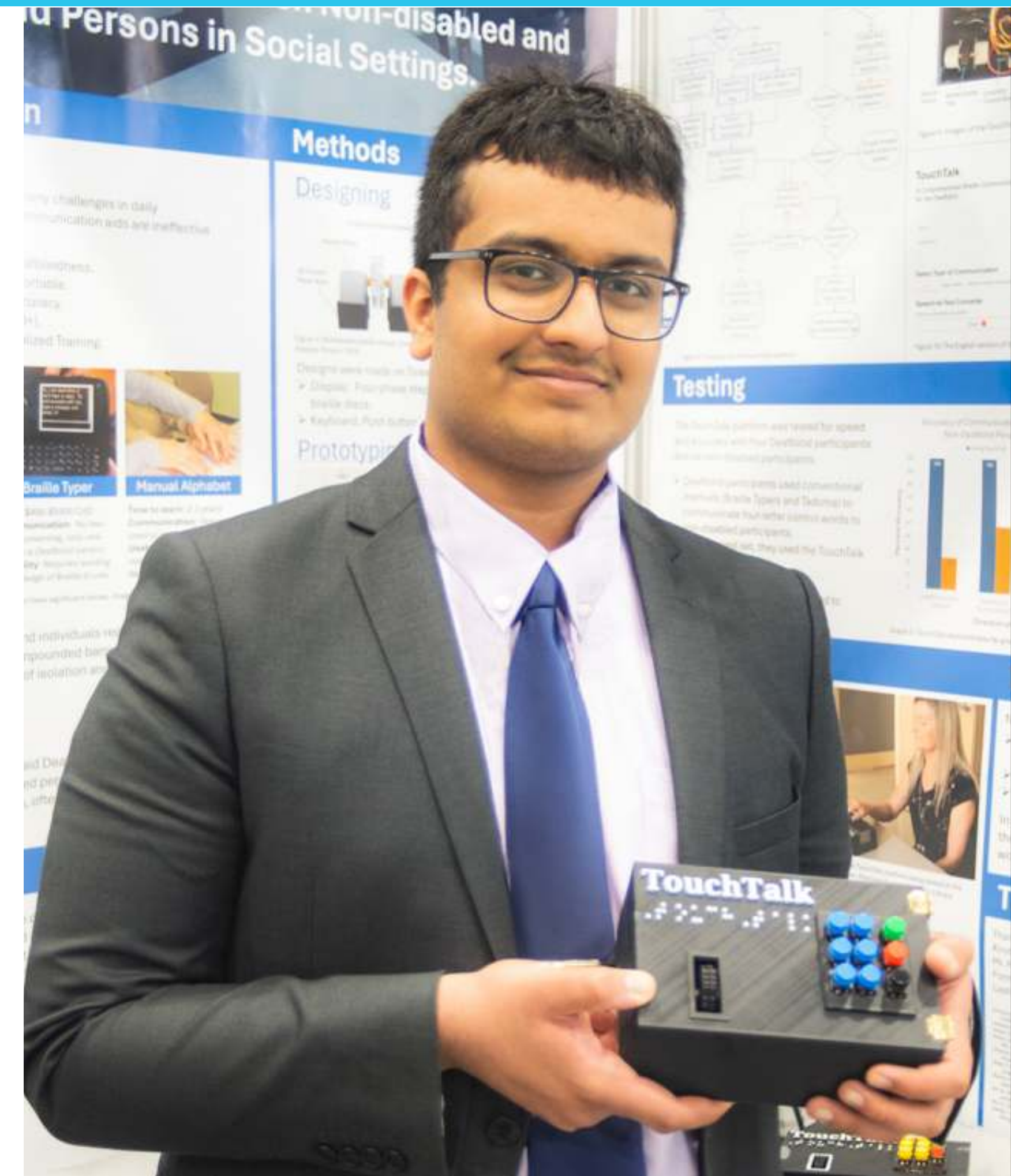


**Engineering Innovation Award**  
**Prix de l'innovation en génie**  
Senior / Sénior

**Joti Gokaraju**

**TouchTalk: A Novel Braille Communication Platform for the Deafblind**

Saskatoon – Saskatchewan





**Excellence in Astronomy Award**  
**Prix d'excellence en astronomie**  
Junior

**Aalyzha Ferrer**

**Plants in Space: Investigating How Microgravity Influences Plant Growth**

North-West New Brunswick – New Brunswick





**Excellence in Astronomy Award**  
**Prix d'excellence en astronomie**  
Intermediate / Intermédiaire

**Bram St. Peters**

How human biosolids can be used in lunar soils to optimize food production on the moon

Halifax – Nova Scotia





**First Nations University of Canada Award**  
**Prix de First Nations University of Canada (Université des Premières Nations du Canada)**

Junior

**Dexter Rocky Roy Mentuck**

**Testing the Hydrating Power of Bear Grease Bath Bombs**

MFNERC Schools – Manitoba





## Harvey Travel Award

## Prix Harvey Travel

Intermediate / Intermédiaire

# Ben Kawa

## Driver Wake Up 2.0: A Compact Standalone Device

Sudbury - Ontario





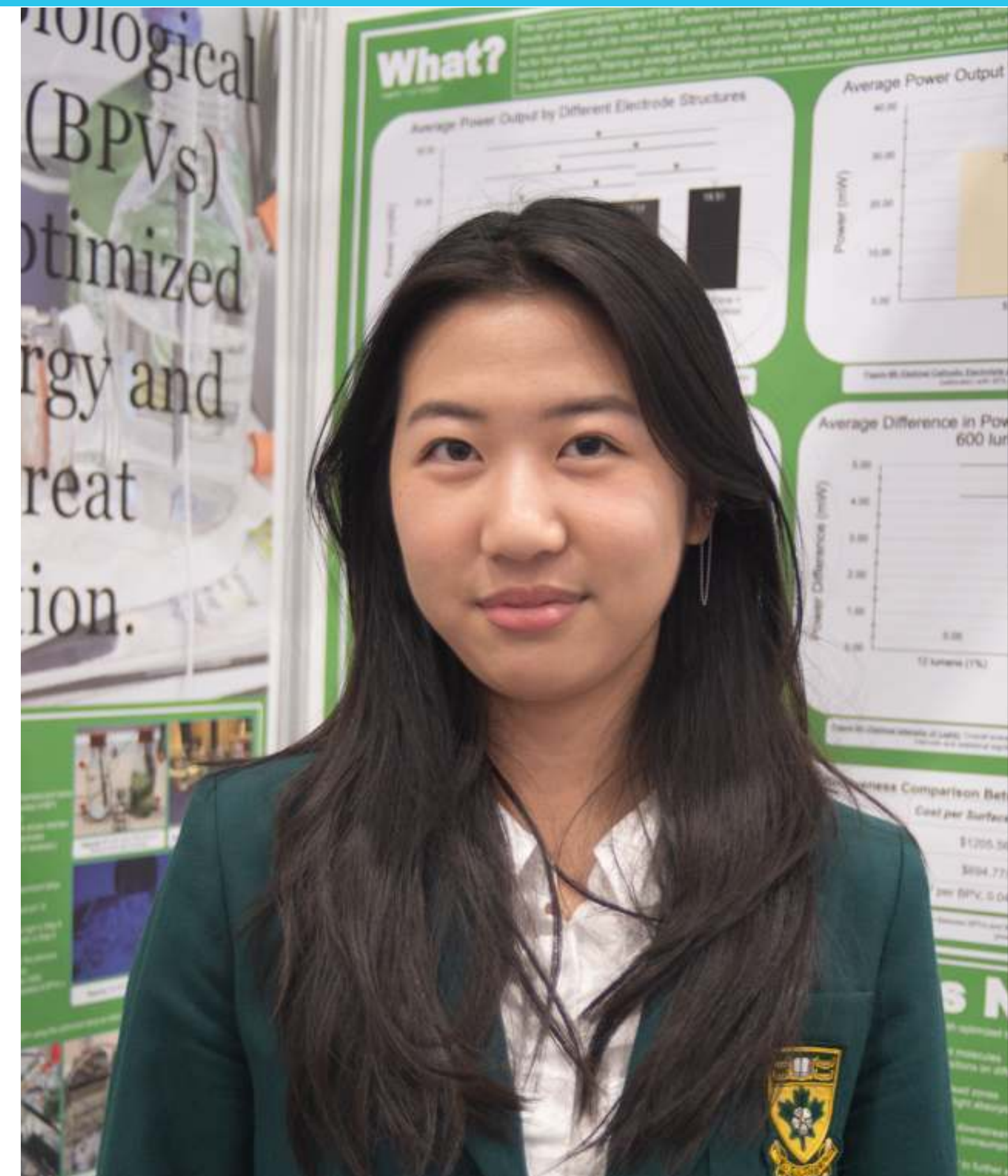
# Hydrogen Optimized Green Energy Award Prix de l'énergie verte optimisée par l'hydrogène

Senior / Sénior

## Veronica Guo

A Novel, Cost-Effective Biological Photovoltaic for Wastewater Treatment

Greater Vancouver – British Columbia





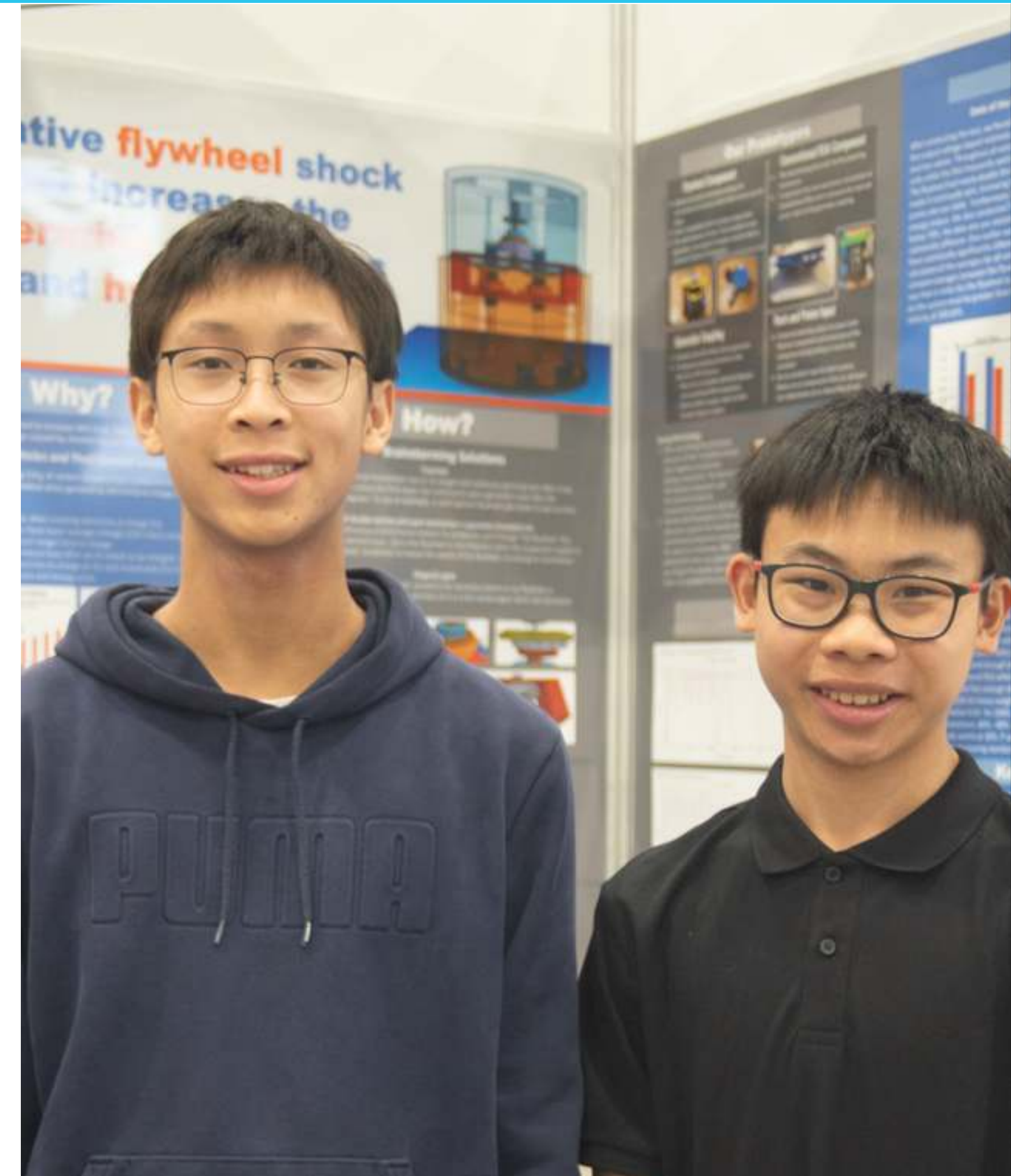
## Intact Climate Change Resilience Award Prix « Intact » pour la résilience aux changements climatiques

Junior

**Matt Fong**  
**William Zhou**

Extending Mileage on EV and Hybrid Vehicles using a Ratchet and Flywheel  
Regenerative Shock Absorber

Toronto – Ontario





## Intact Climate Change Resilience Award

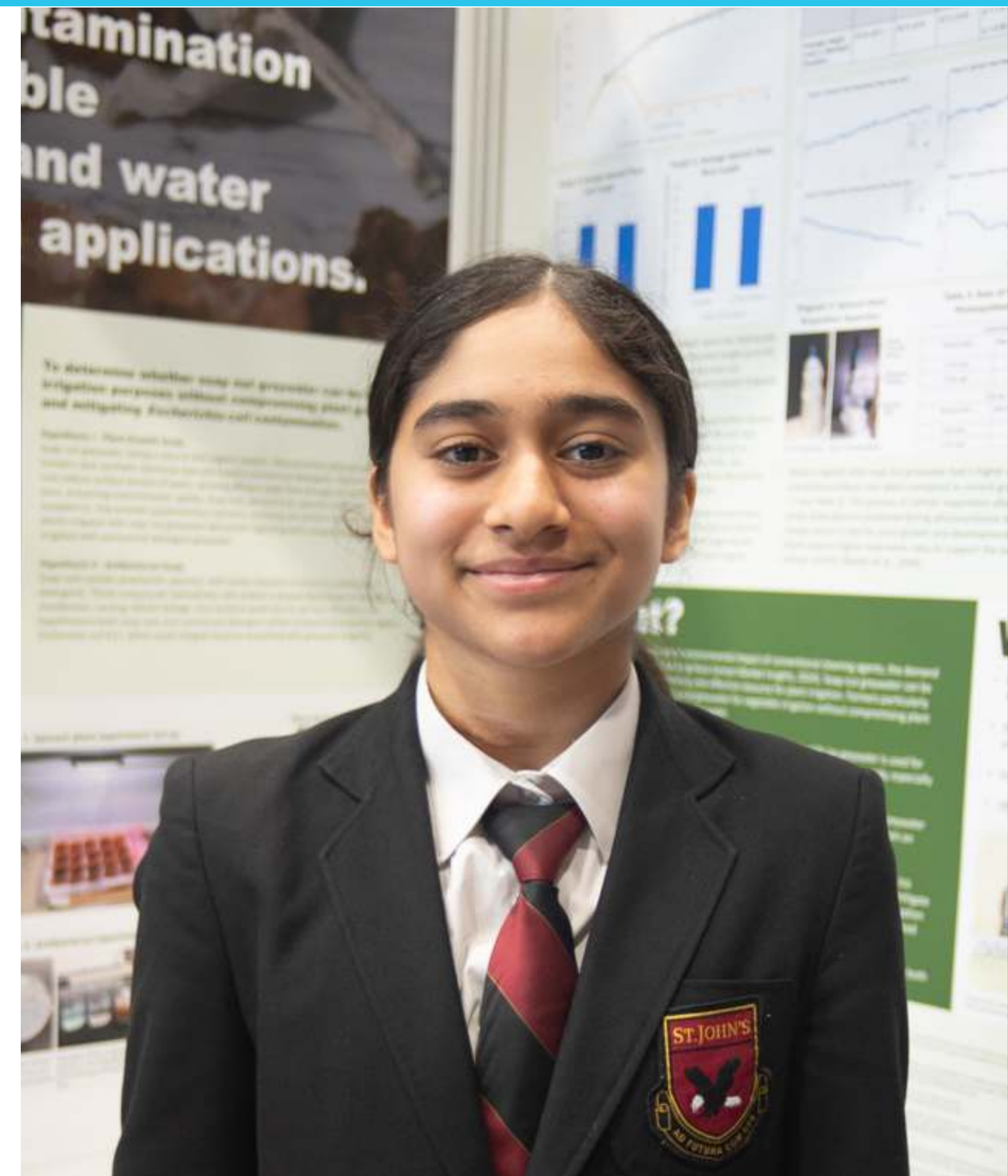
### Prix « Intact » pour la résilience aux changements climatiques

Intermediate / Intermédiaire

## Tanvir Mundra

### Reviving Resources: Harnessing Soap Nut Greywater for Sustainable Plant Growth

Greater Vancouver – British Columbia





# Intact Climate Change Resilience Award Prix « Intact » pour la résilience aux changements climatiques

Senior / Sénior

## Zachary Dostie Mickaël Plante

Les algues sauvent les   ves!

Réseau Technoscience – Québec





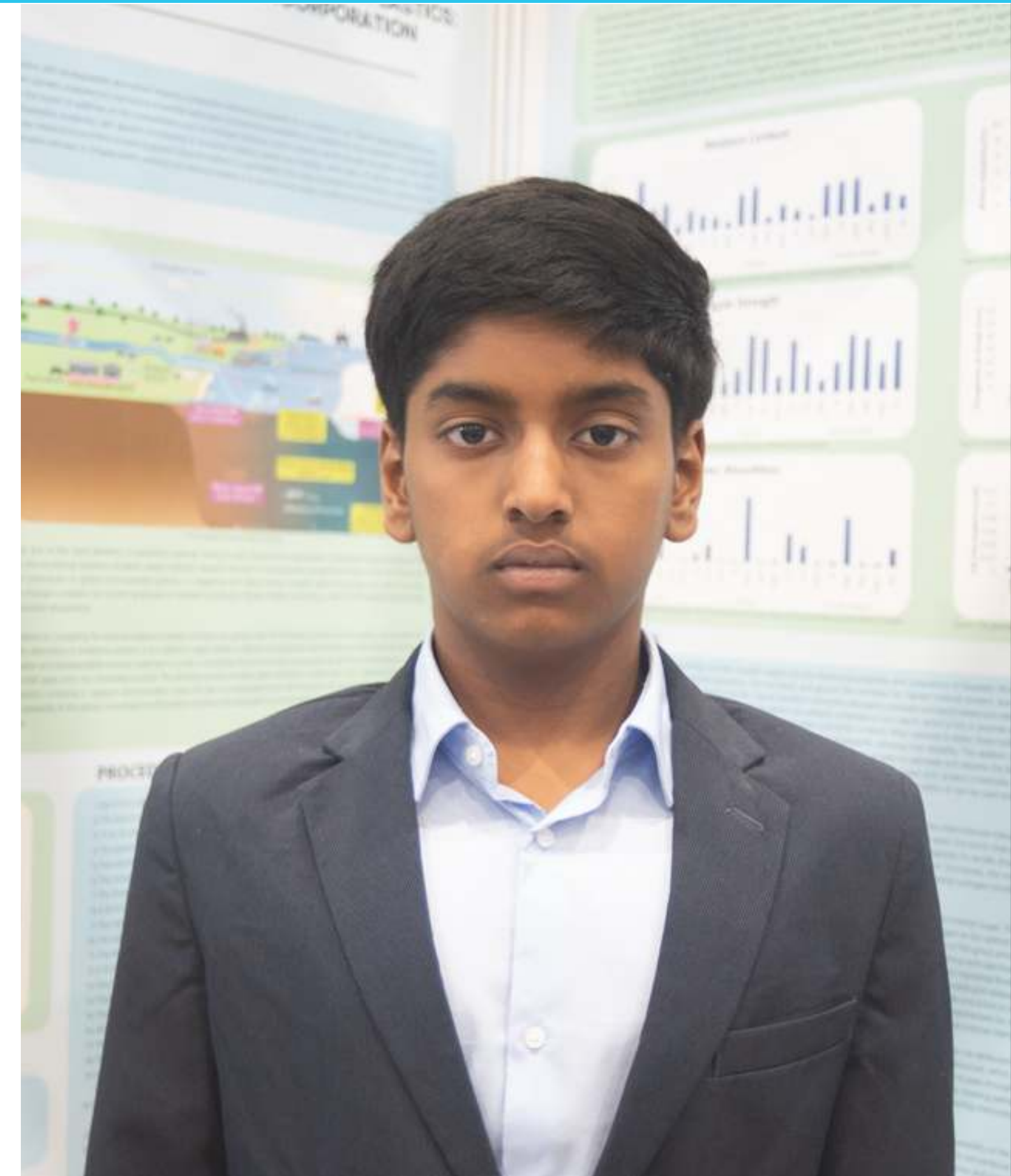
**Nanotechnology for Sustainable Society Award**  
**Prix de nanotechnologie pour une société durable**

Junior

**Madhav Saravanan**

**Fantastic Bioplastics**

Peel – Ontario





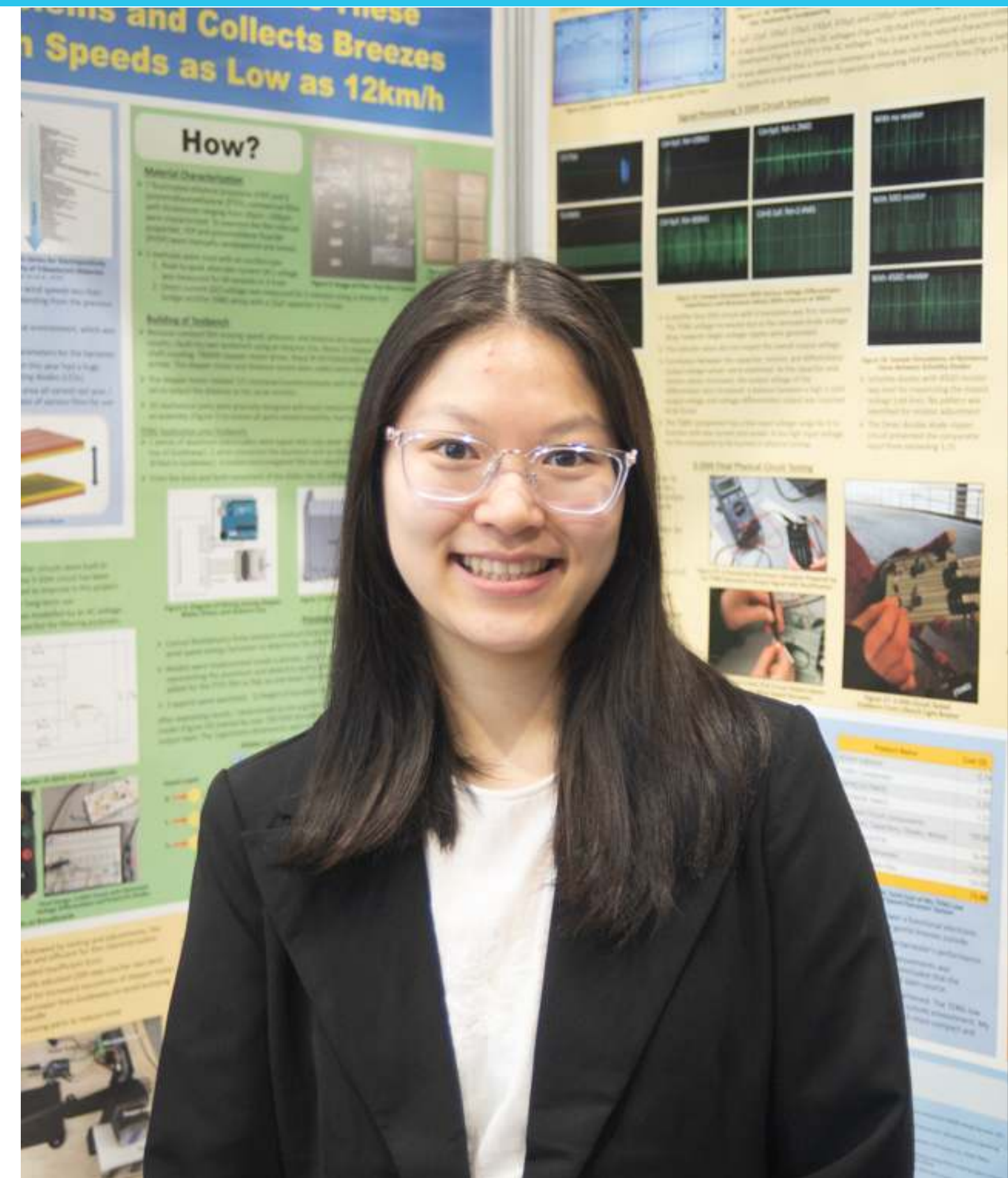
**Nanotechnology for Sustainable Society Award**  
**Prix de nanotechnologie pour une société durable**

Intermediate / Intermédiaire

**Sophia Zhang**

**Optimization of Novel Triboelectric Nanogenerators for Wind Energy Harvesting at Low Speeds**

Eastern Newfoundland – Newfoundland & Labrador





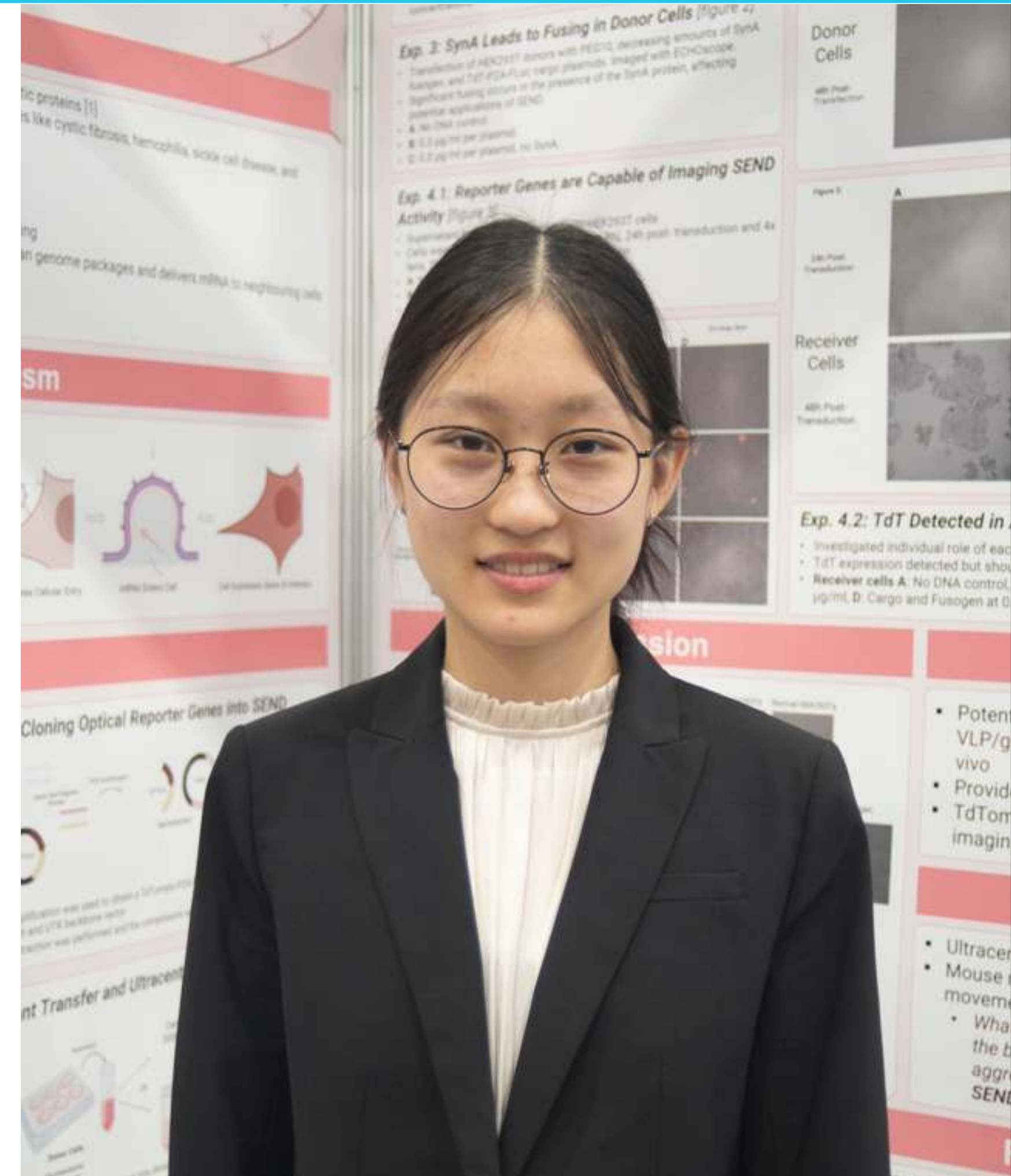
# Nanotechnology for Sustainable Society Award Prix de nanotechnologie pour une société durable

Senior / Sénior

## Isabella Bu

### A SEND-Based Imaging Approach to Track mRNA Delivery for Gene Therapy

Thames Valley – Ontario



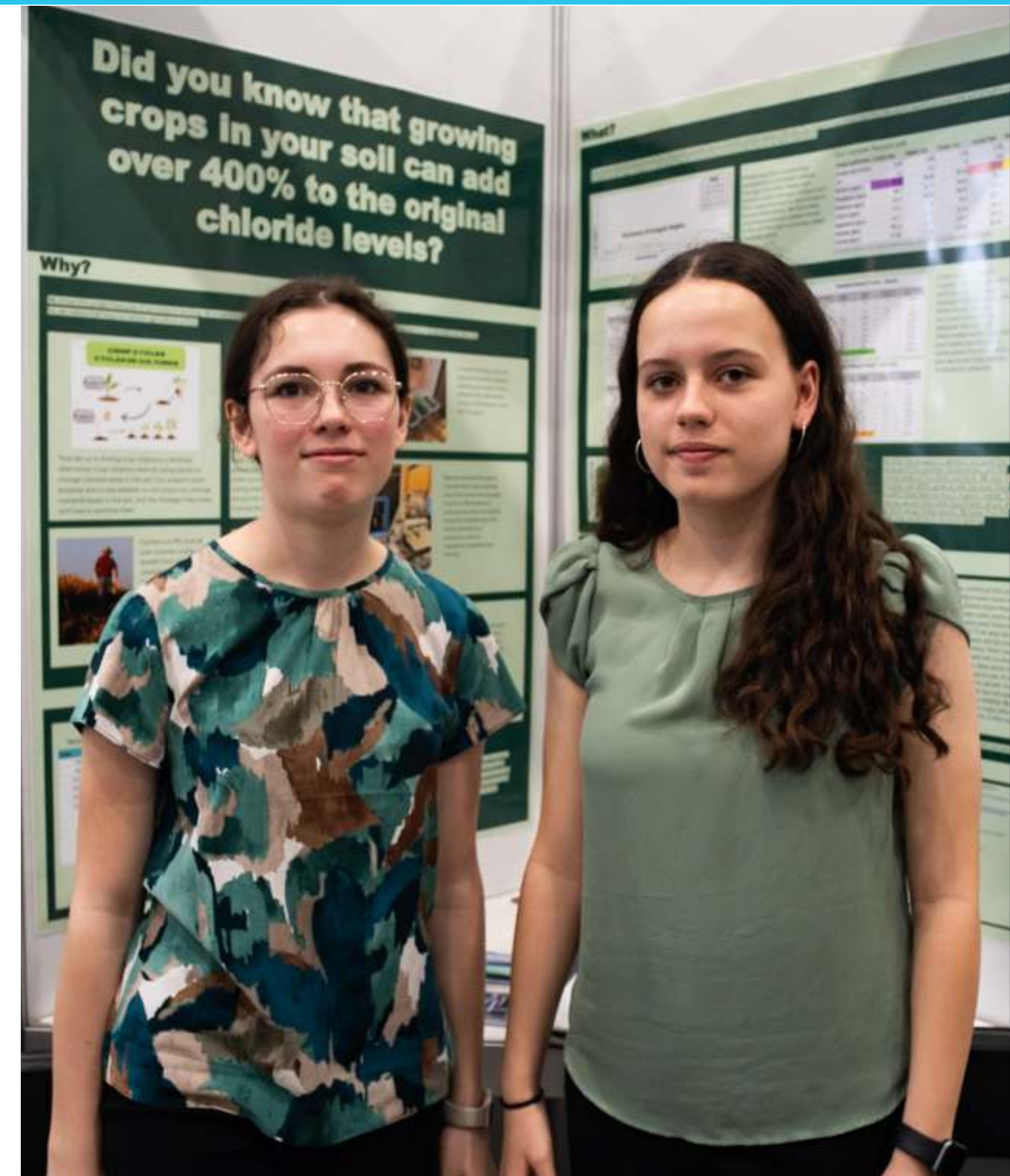


**Nutrients for Life Foundation Award**  
**Prix de la fondation « Nutriments pour la vie »**  
Junior

**Charlotte Campbell**  
**Leila Djelouah**

**The Root of the Problem**

Prince Edward Island – Prince Edward Island





**Renewable Energy Award**

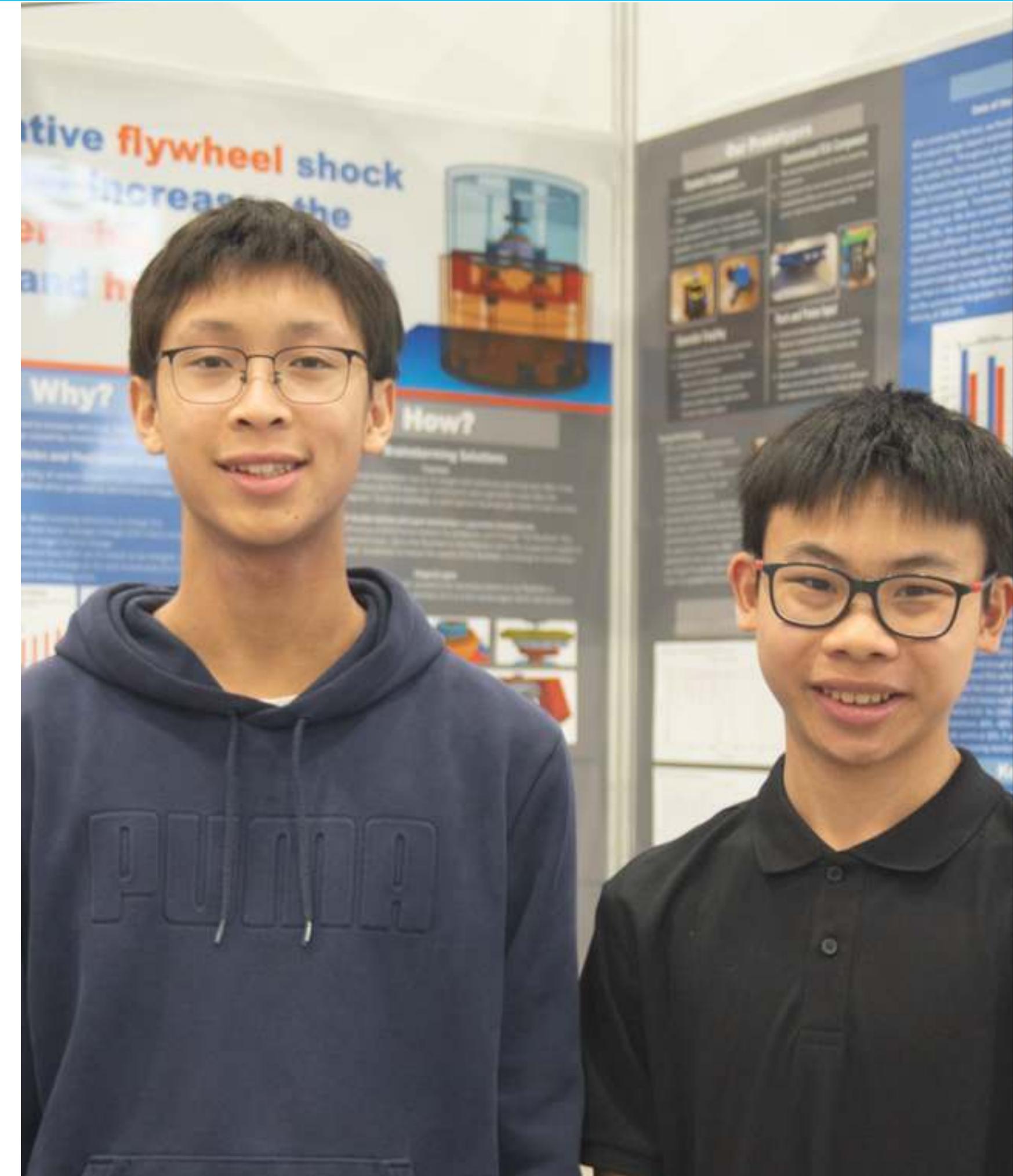
**Prix de l'énergie renouvelable**

Junior

**Matt Fong**  
**William Zhou**

**Extending Mileage on EV and Hybrid Vehicles using a Ratchet and Flywheel  
Regenerative Shock Absorber**

Toronto – Ontario





## Renewable Energy Award

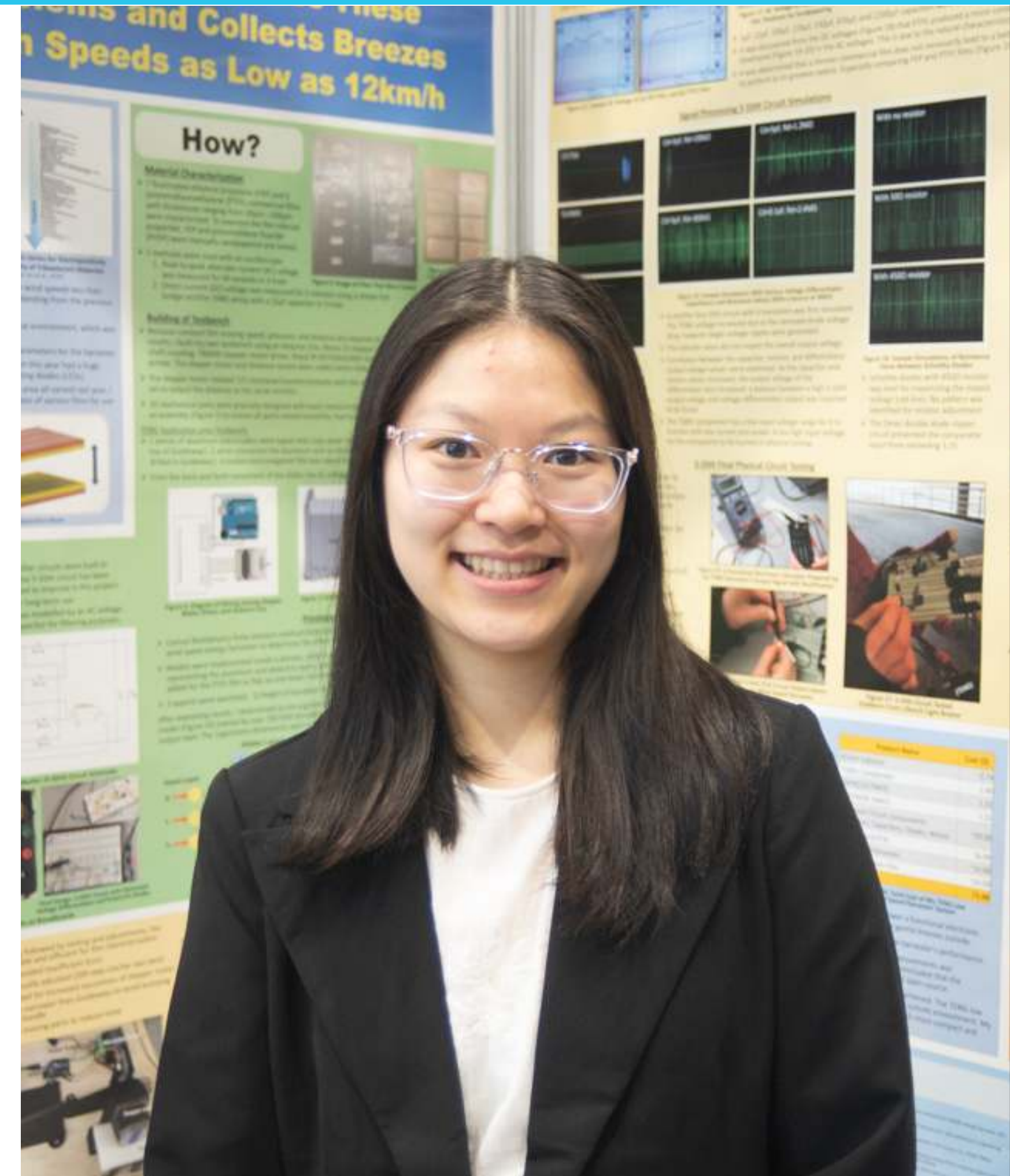
## Prix de l'énergie renouvelable

Intermediate / Intermédiaire

# Sophia Zhang

## Optimization of Novel Triboelectric Nanogenerators for Wind Energy Harvesting at Low Speeds

Eastern Newfoundland – Newfoundland & Labrador





**Renewable Energy Award**  
**Prix de l'énergie renouvelable**

Senior / Sénior

**Veronica Guo**

**A Novel, Cost-Effective Biological Photovoltaic for Wastewater Treatment**

Greater Vancouver – British Columbia





**S.M. Blair Family Foundation Award  
Prix S.M. Blair Family Foundation**

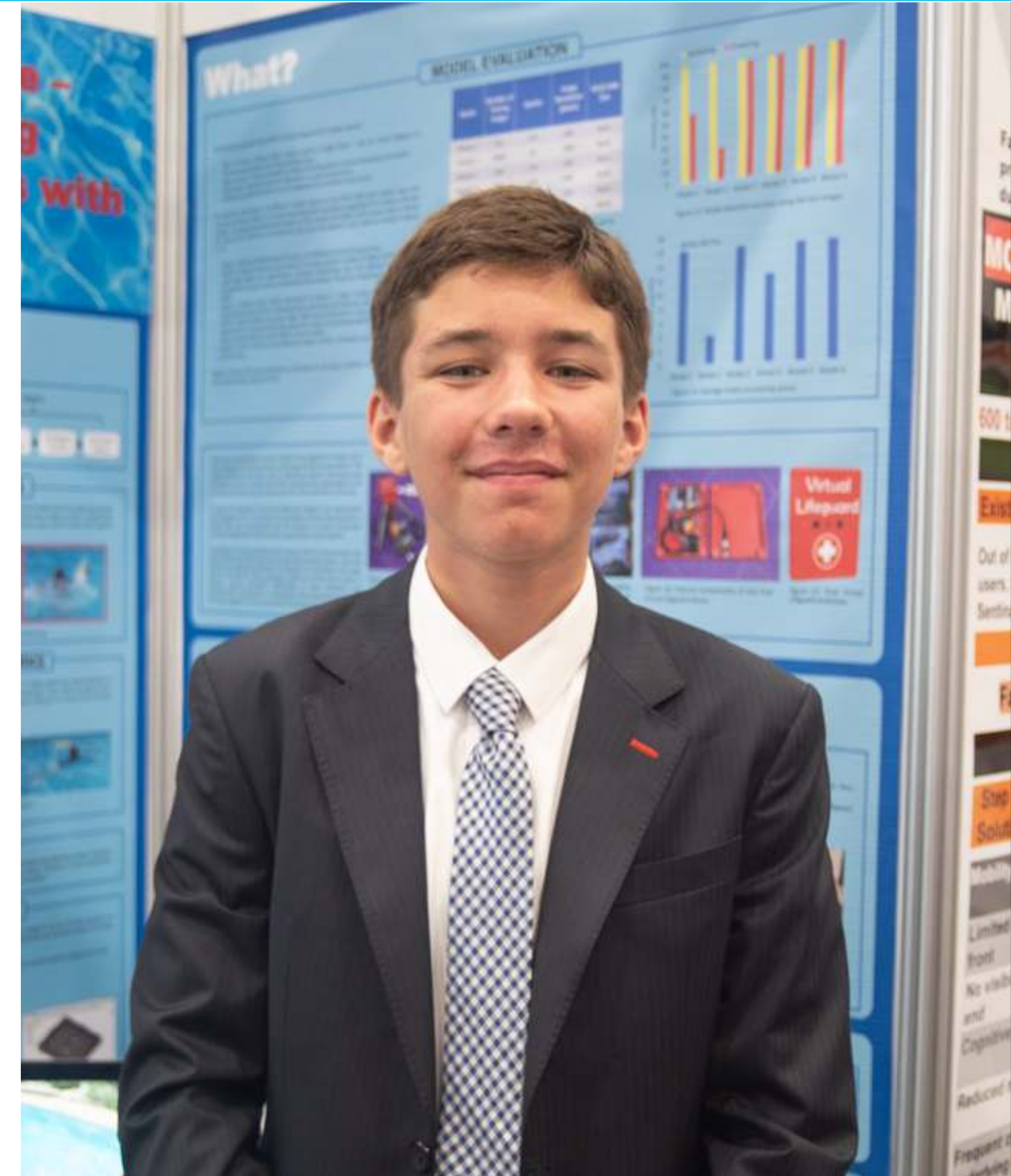
Junior

**Evan Budz**

**Virtual Lifeguard: A Novel AI Approach to Drowning Prevention**

Bay Area - Ontario

**S.M. Blair  
Family Foundation**





**S.M. Blair Family Foundation Award**  
**Prix S.M. Blair Family Foundation**  
Intermediate / Intermédiaire

**Joy Akinkunmi**

**Pill Smart 2.0**

Canadian Black Scientists Network Youth

**S.M. Blair  
Family Foundation**





**S.M. Blair Family Foundation Award  
Prix S.M. Blair Family Foundation**

Senior / Sénior

**Casper Dong**

**“Solving A Water Crisis” A Novel Device For Water Generation and Utilization in Desert Solar Arrays**

Waterloo-Wellington – Ontario

**S.M. Blair  
Family Foundation**





**Shad Canada Scholarship Awards**  
**Bourses d'Étude Shad Canada**  
Intermediate / Intermédiaire

**Joy Akinkunmi**

**Pill Smart 2.0**

Canadian Black Scientists Network Youth





## Shad Canada Scholarship Awards

## Bourses d'Étude Shad Canada

Intermediate / Intermédiaire

# Annaliese Froehler

## Hands-On Healing: Exploring Sustainable Rehabilitation Possibilities Using VR Hand Tracking

East Kootenay – British Columbia





**Shad Canada Scholarship Awards**

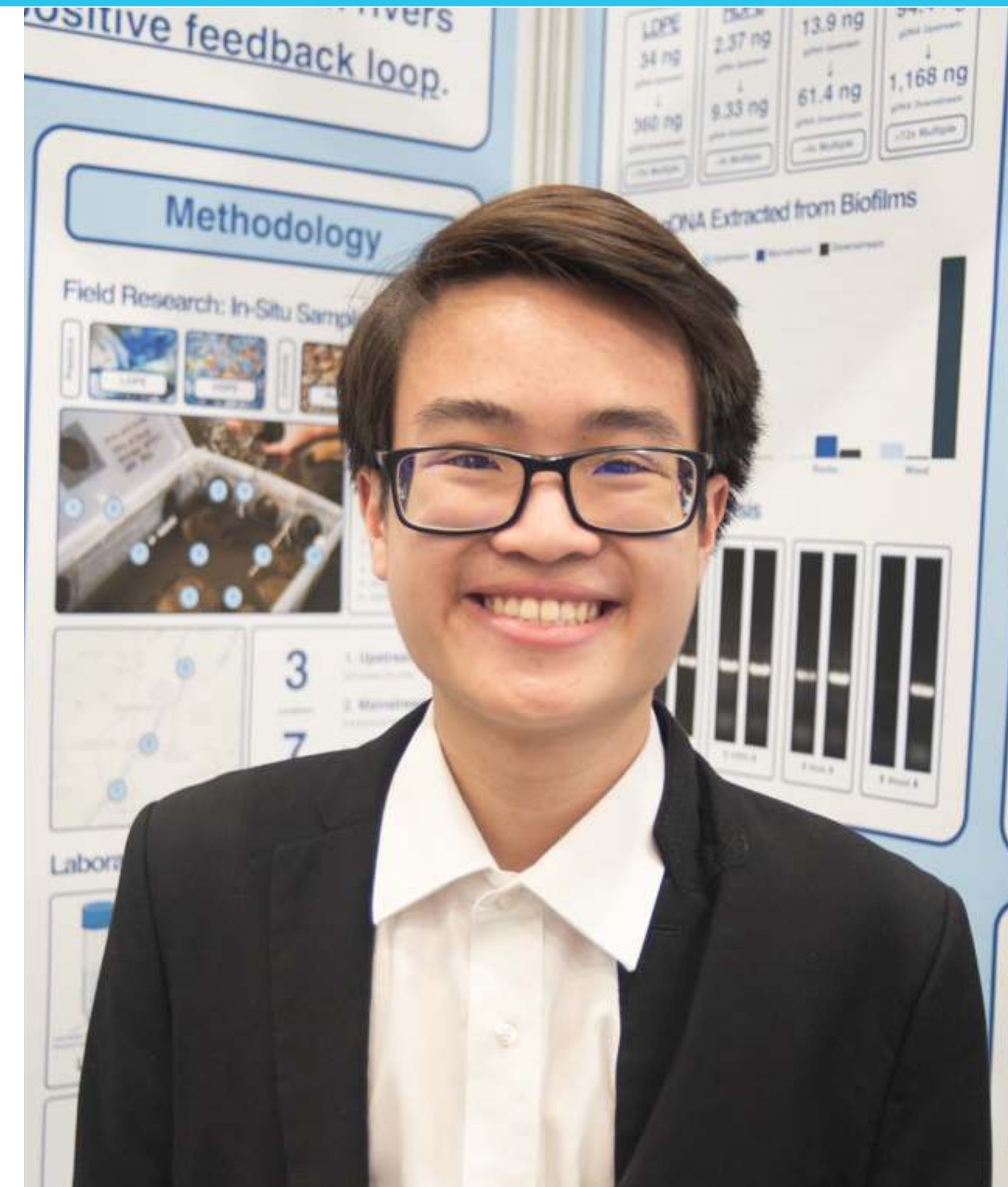
**Bourses d'Étude Shad Canada**

Intermediate / Intermédiaire

## Thông Quách

**Project PolyQuant: Quantifying Genomic DNA from Biofilms on Polyethylene in an Urban River Ecosystem**

Saskatoon – Saskatchewan





**Shad Canada Scholarship Awards**

**Bourses d'étude Shad Canada**

Intermediate / Intermédiaire

## **Riley Saha Halder**

**Enhancing Bioplastic Performance Using Eggshell Waste and Chitosan**

Wood Buffalo – Alberta





## Shad Canada Scholarship Awards

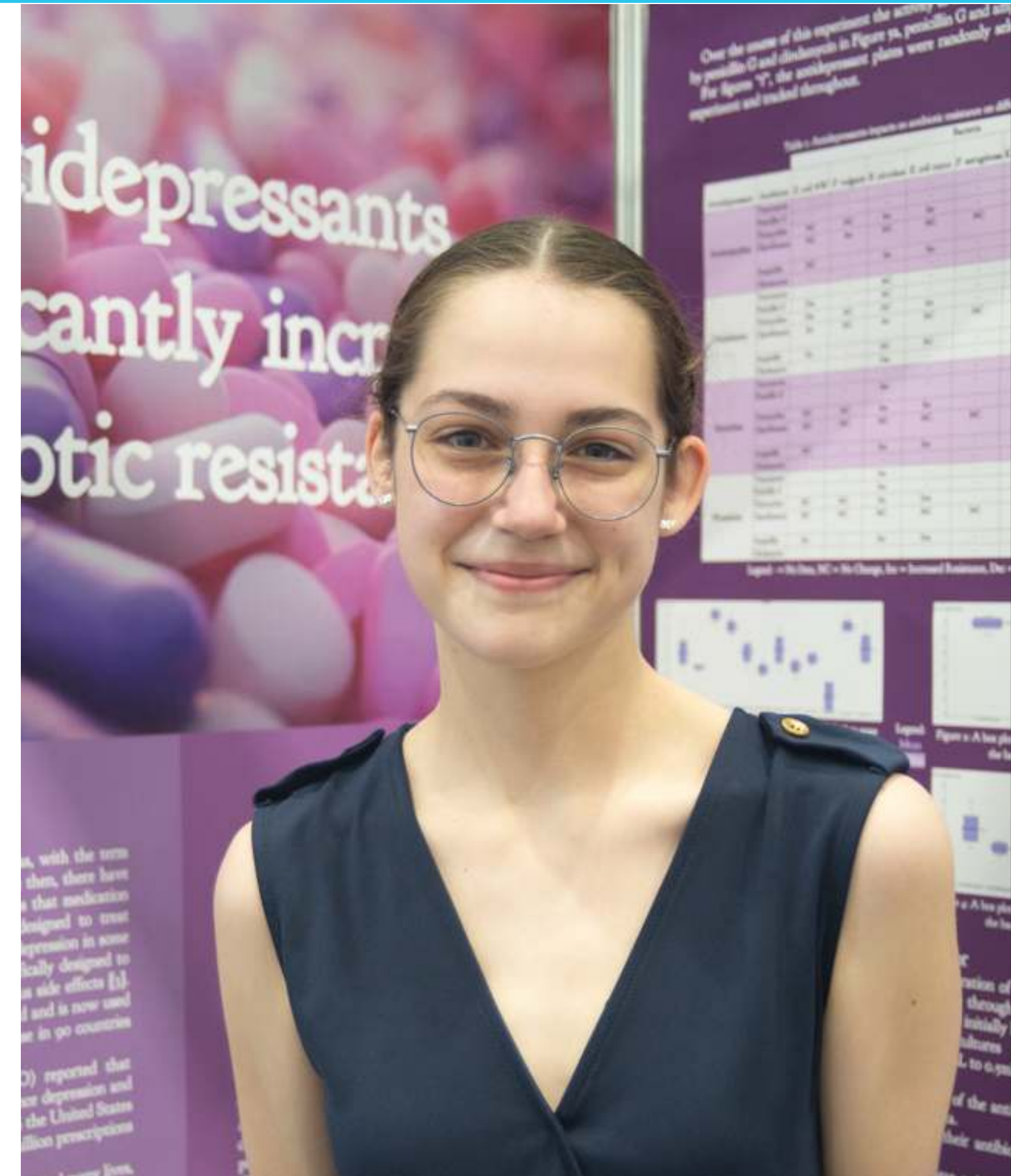
## Bourses d'Étude Shad Canada

Intermediate / Intermédiaire

# Katelynn Standell

## Is Your Happiness Killing You?

Southeast Alberta – Alberta





## Shad Canada Scholarship Awards

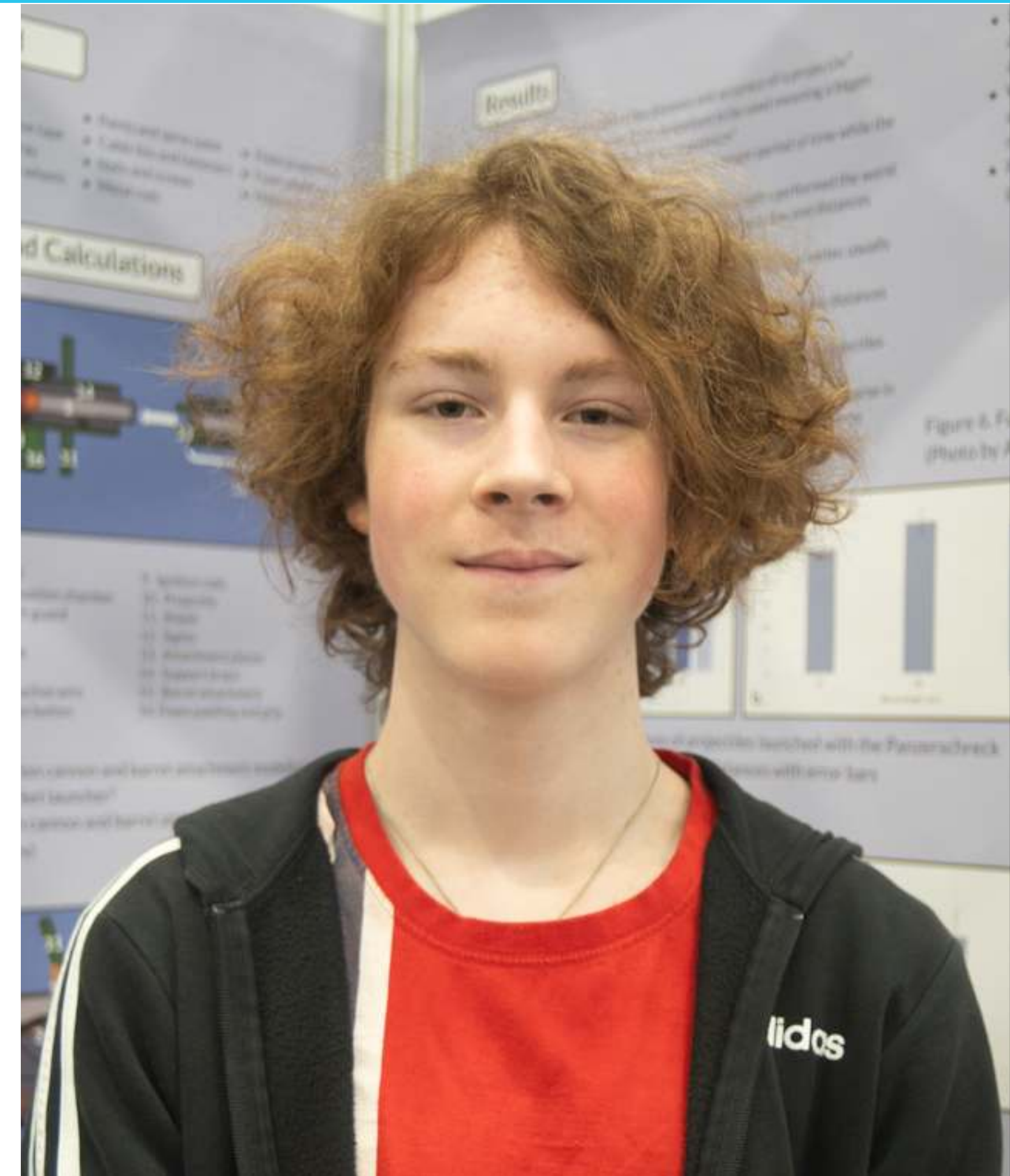
## Bourses d'étude Shad Canada

Intermediate / Intermédiaire

# Dexter Wrigley

The effect of barrel length on a projectile

Northwestern Ontario – Ontario





**Statistical Society of Canada Award  
Prix de la Société statistique du Canada**

Intermediate / Intermédiaire

**Nico Pacifici**

**The PrepStep: A Mobile Health Platform to Detect Ventricular  
Cardiomyopathy in Athletes Using AI**

Bay Area - Ontario



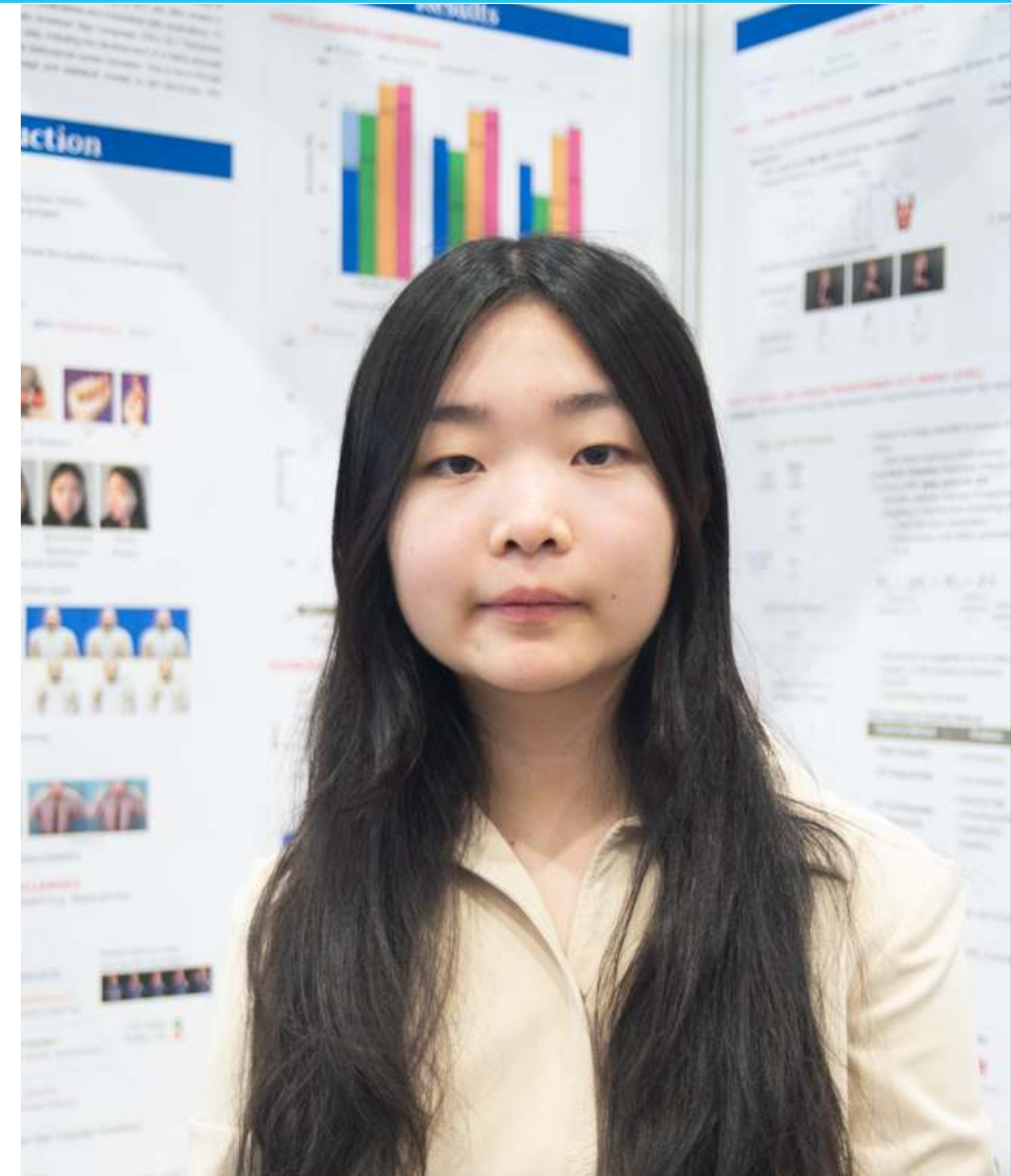


**Statistical Society of Canada Award**  
**Prix de la Société statistique du Canada**  
Senior / Sénior

**Angela Cao**

**S2S: AI-Powered Translation Between Sign and Spoken Languages**

Greater Vancouver – British Columbia





**University of Ottawa Undergraduate Research Scholarship Award**  
**Bourse de recherche de premier cycle de l'Université d'Ottawa**

Senior / Sénior

**Donae Houle**  
**Gunner Malcolm-Spence**

**Accessible Computer Mouse For People With Upper Limb Disabilities**

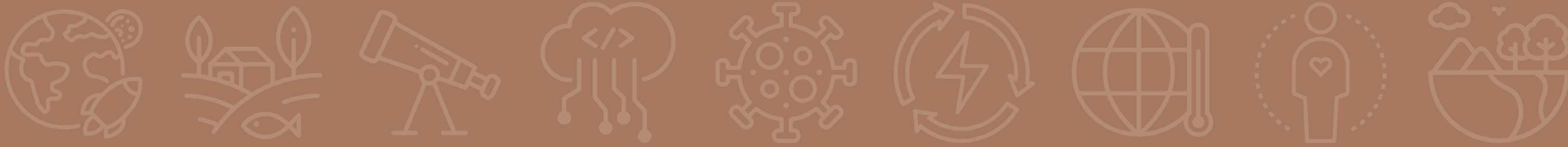
Manitoba Indigenous – Manitoba



uOttawa







**Excellence Award - Bronze**  
**Prix d'excellence - bronze**  
Junior

## Eden Abols

**Metallurgical Mushrooms**

Sudbury - Ontario







**Excellence Award - Bronze**

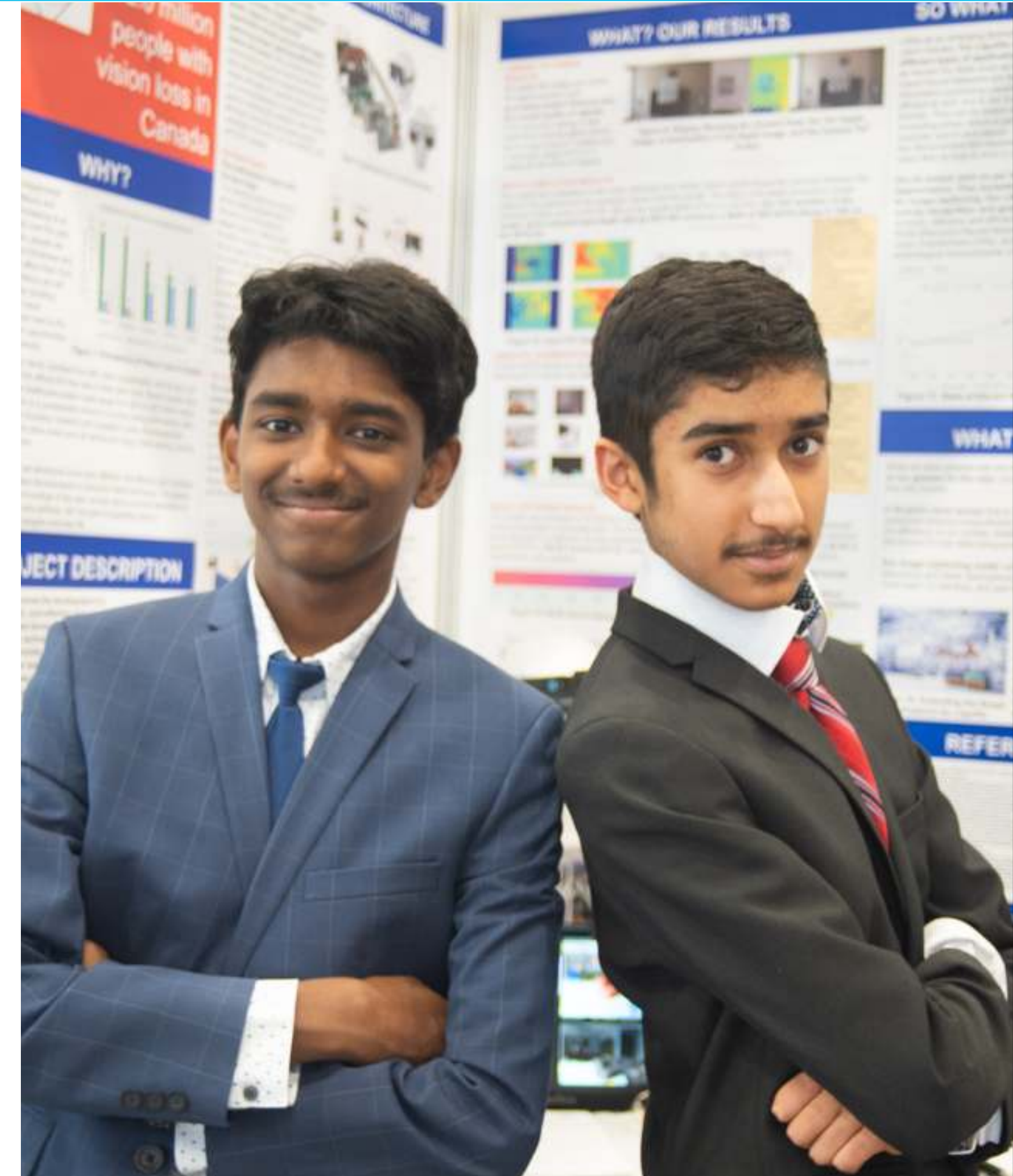
**Prix d'excellence - bronze**

Junior

# **Imran Allarakhia** **Mithru Narayan Naidu**

**LiquiViz: Adaptive AI for 3D Object Detection and Semantic Segmentation in Vision Impairment Devices**

Bay Area - Ontario







**Excellence Award - Bronze**

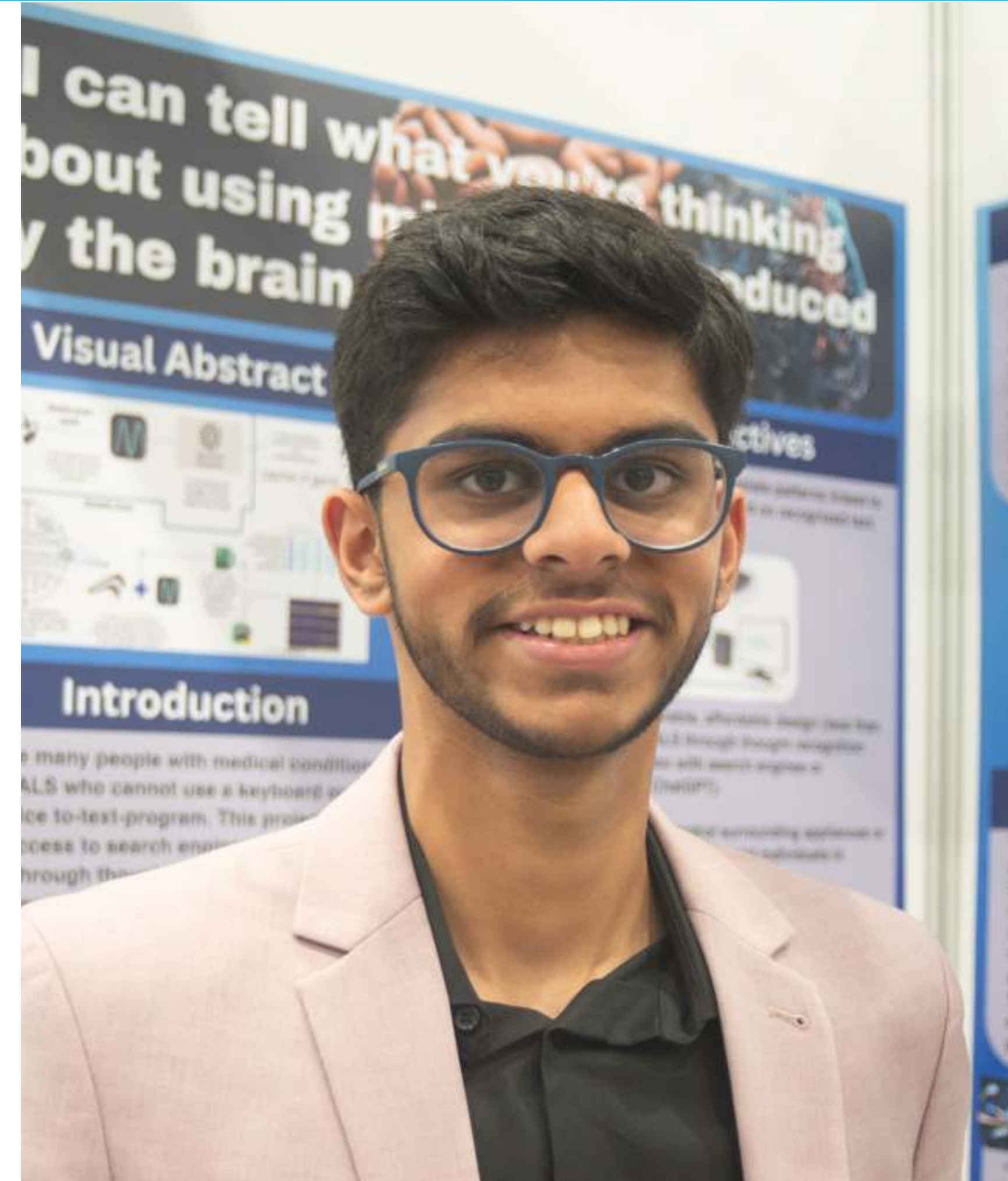
**Prix d'excellence - bronze**

Junior

## **Muhammad Mustafa Arif**

**Thoughts-To-Text: A Novel Approach To BCIs**

Lambton County – Ontario





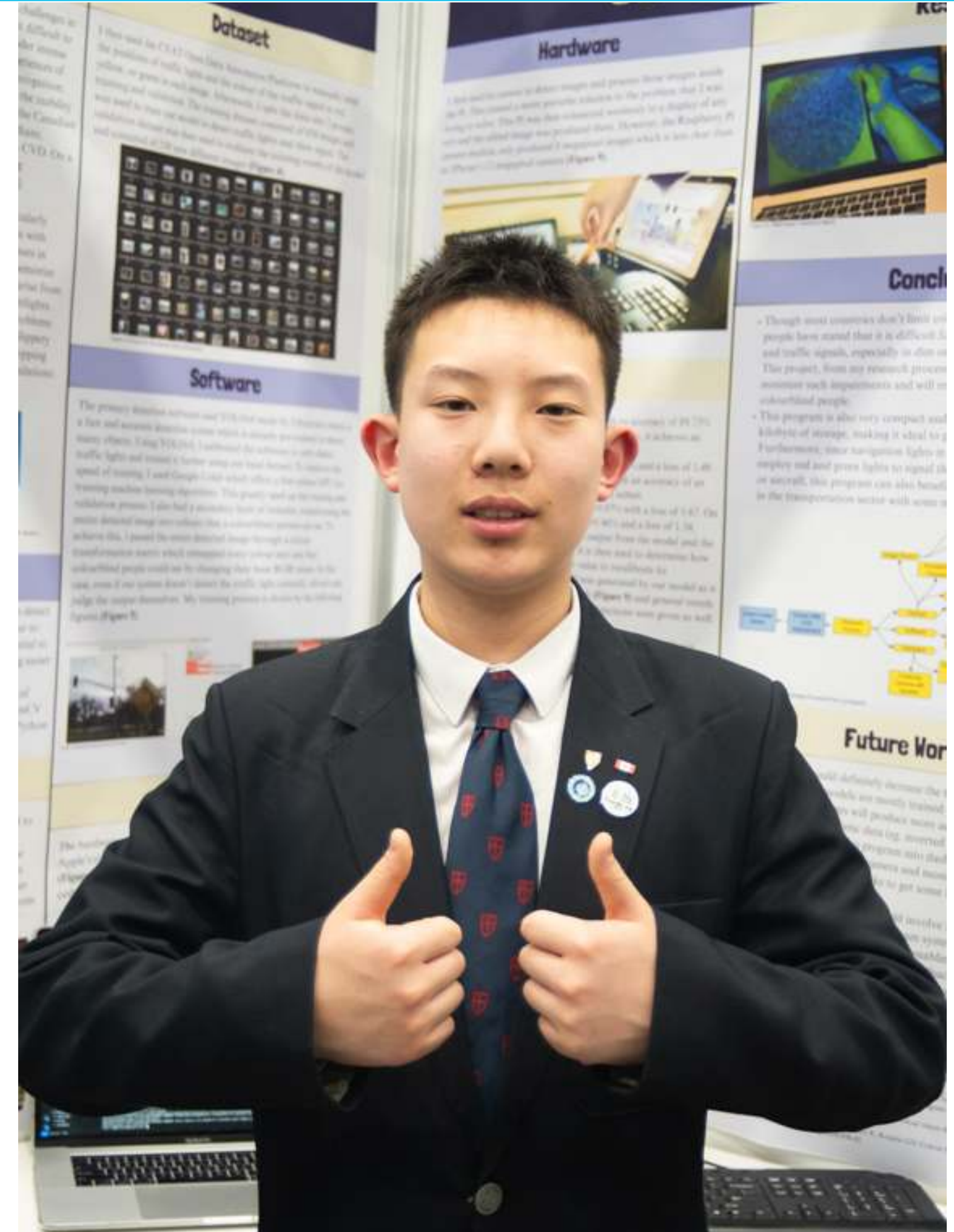


**Excellence Award - Bronze**  
**Prix d'excellence - bronze**  
Junior

# Aaron Bai

**ChromaSight: Traffic Signal Assistant - A novel machine learning model to detect traffic signals**

Greater Vancouver - British Columbia







**Excellence Award - Bronze**

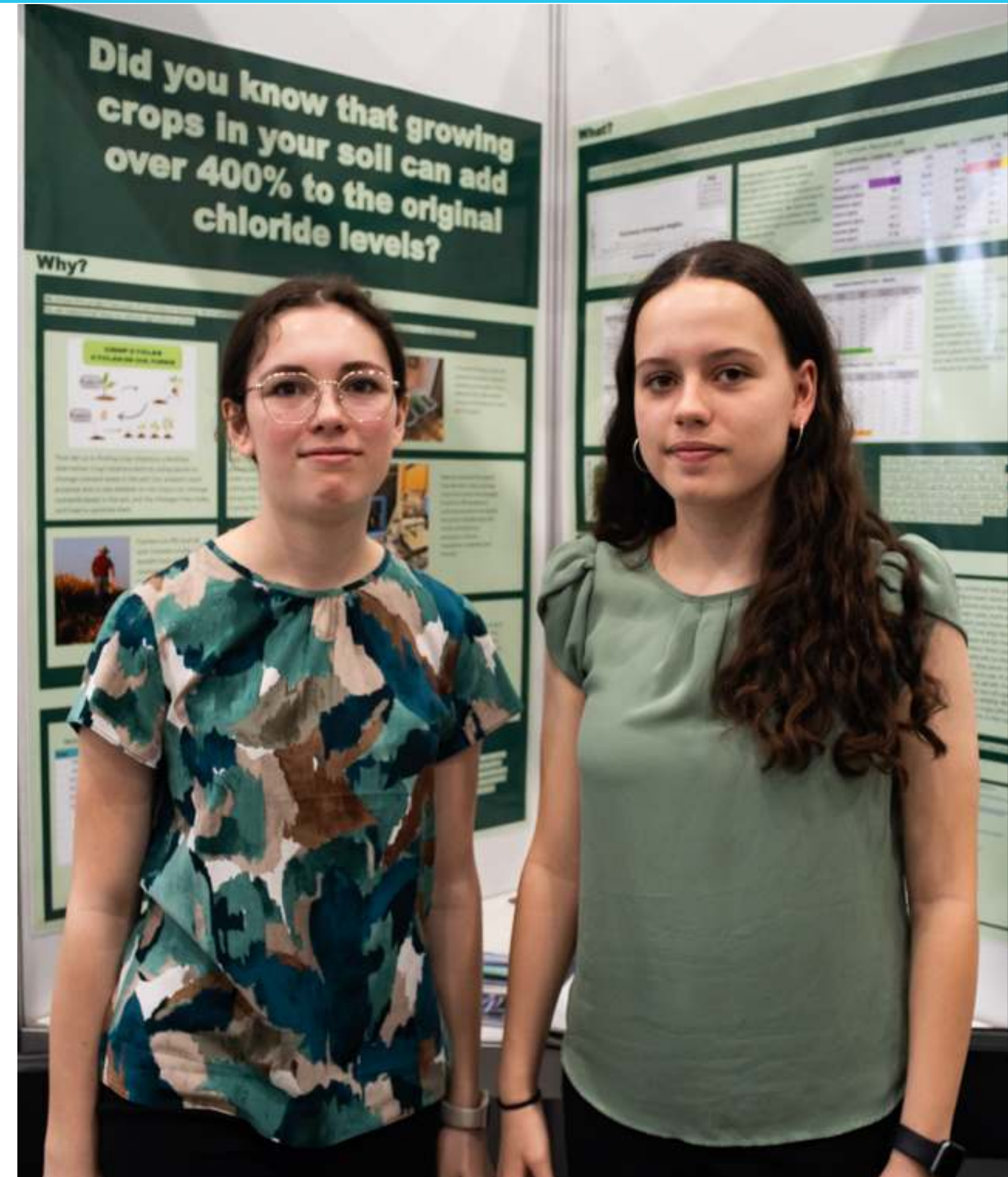
**Prix d'excellence - bronze**

Junior

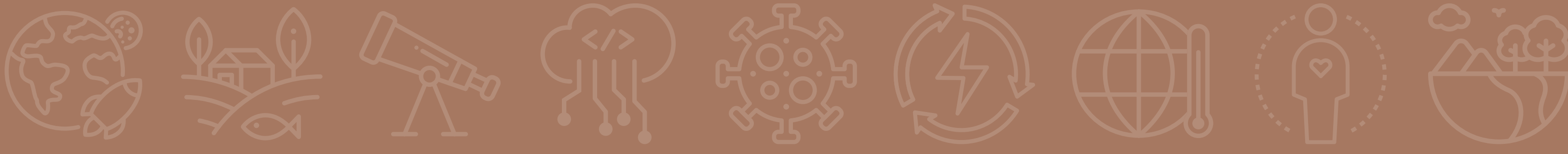
# Charlotte Campbell Leila Djelouah

**The Root of the Problem**

Prince Edward Island – Prince Edward Island





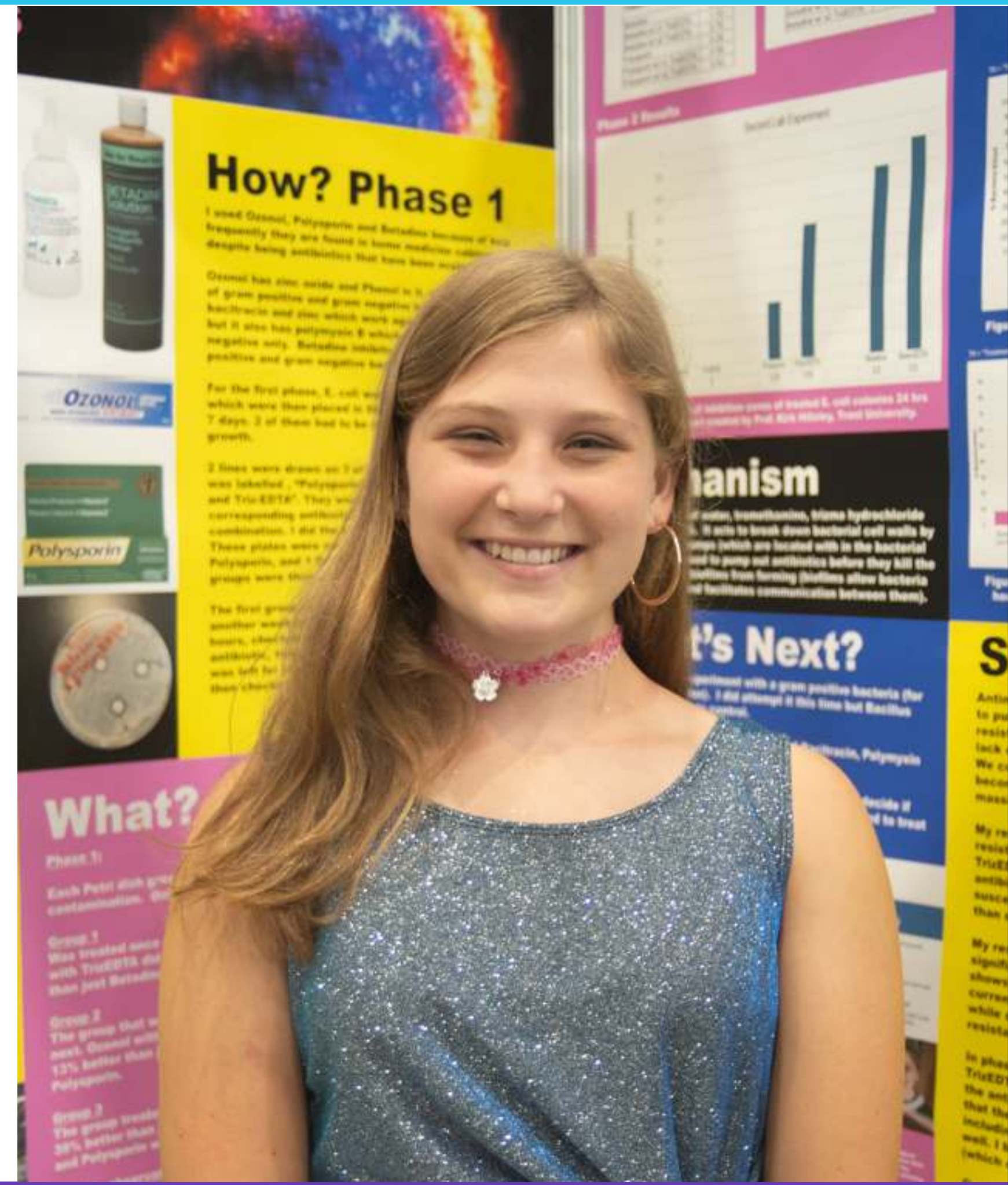


**Excellence Award - Bronze**  
**Prix d'excellence - bronze**  
Junior

# Kayley Carter Phillips

**The Addition of Triz-EDTA to Topical Antibiotics**

Peterborough - Ontario







**Excellence Award - Bronze**  
**Prix d'excellence - bronze**

Junior

# Aadhi Chandrasekaran

**A Novel Approach to Optimize the Concentration of Flocculants in Water Purification**

Manitoba Schools Science Symposium – Manitoba







**Excellence Award - Bronze**

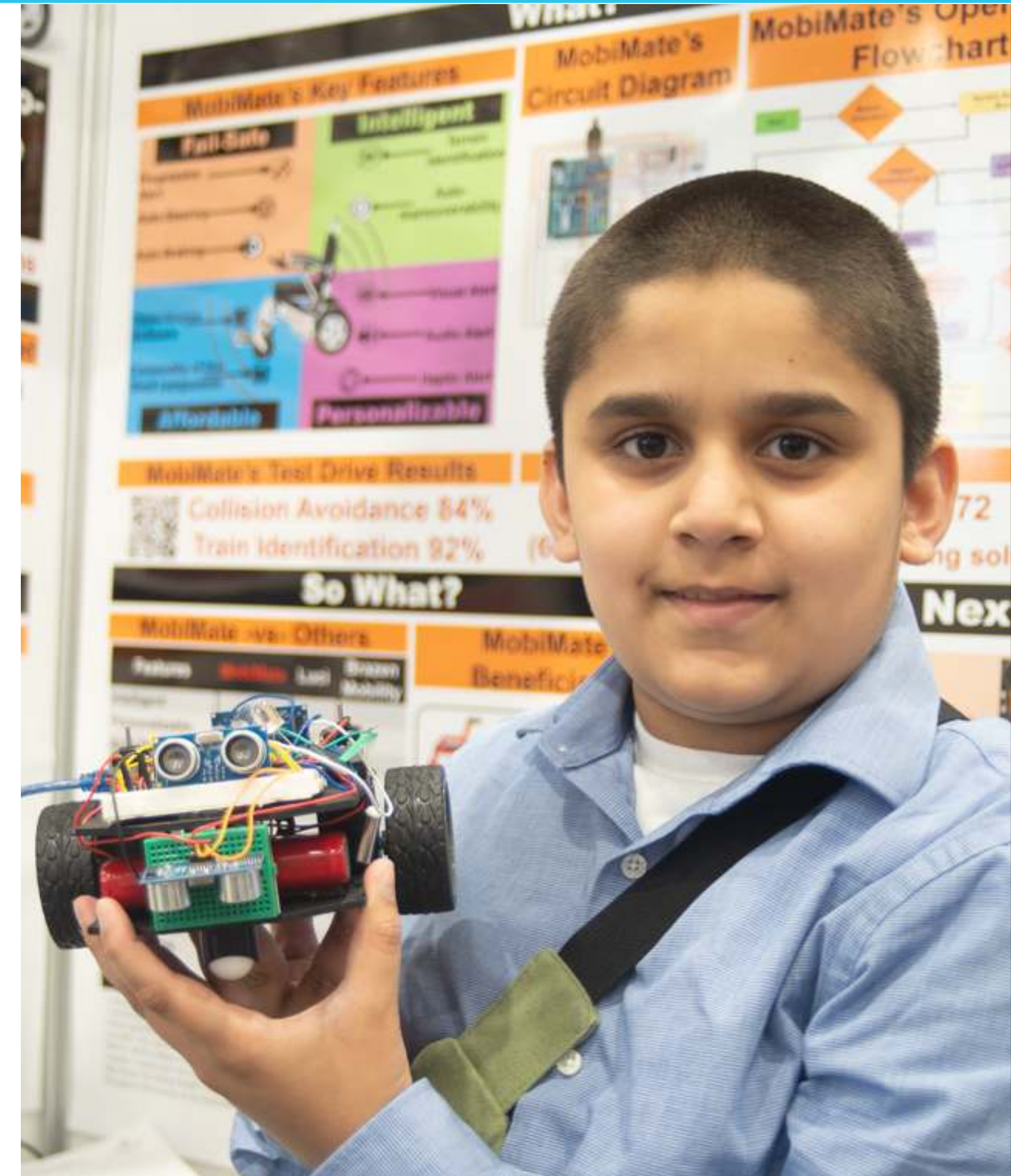
**Prix d'excellence - bronze**

Junior

## Mohammad Chaudhry

**MobiMate: Low-Cost Intelligent Collision-Avoidance and Auto-Steering for Mobility Devices**

Toronto - Ontario







**Excellence Award - Bronze**

**Prix d'excellence - bronze**

Junior

## Story Fitzgerald

**Teen Mental Health due to the COVID Lockdown**

Mi'kmaq Schools – Nova Scotia







**Excellence Award - Bronze**

**Prix d'excellence - bronze**

Junior

## Claire Friesen

**Preventing Flow Separation Using Known and Novel Methods**

Central Alberta Rotary – Alberta







**Excellence Award - Bronze**

**Prix d'excellence - bronze**

Junior

## **Genevieve Gagnon**

**To Glide or Not to Glide**

Pacific Northwest – British Columbia





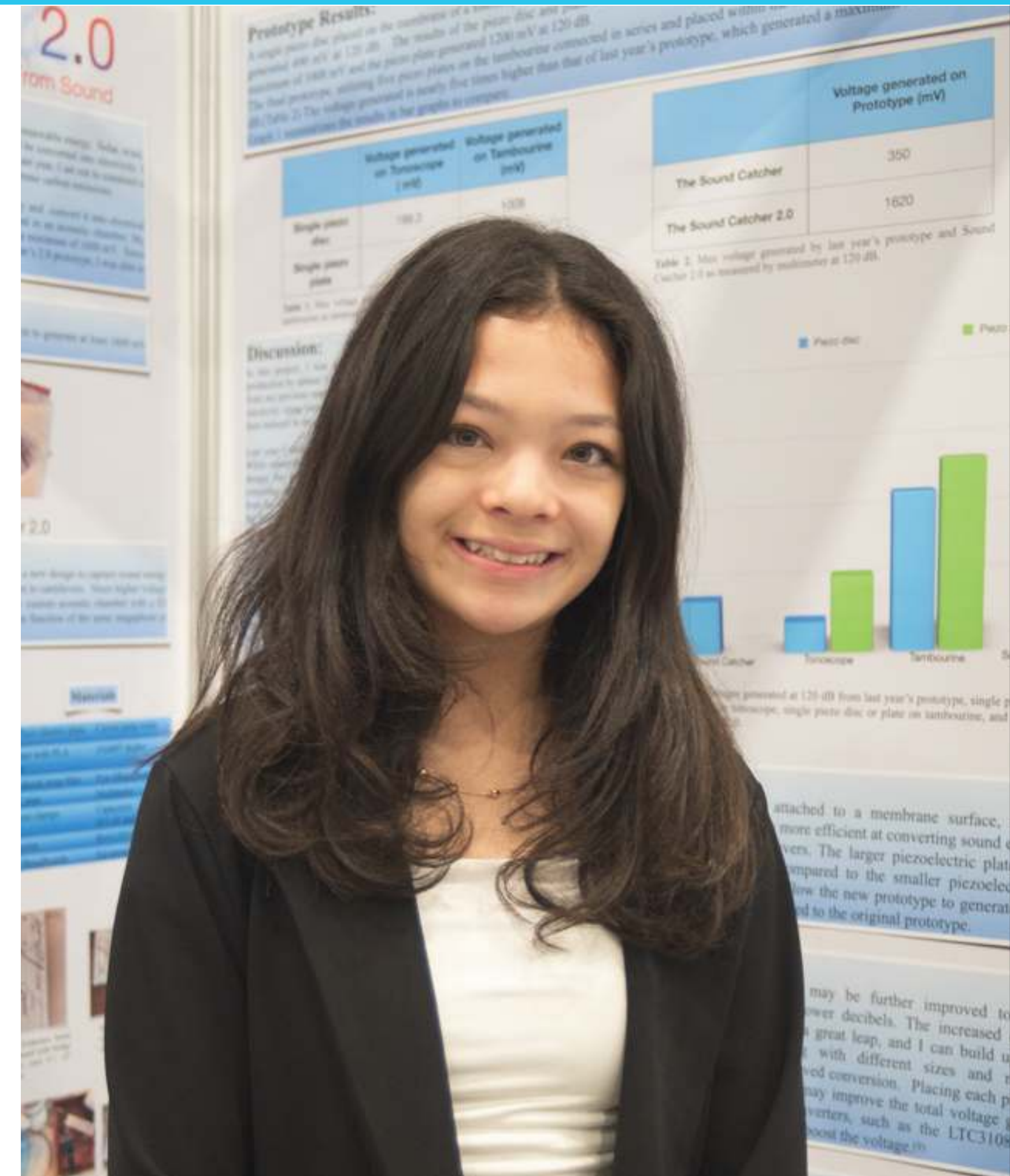


**Excellence Award - Bronze**  
**Prix d'excellence - bronze**  
Junior

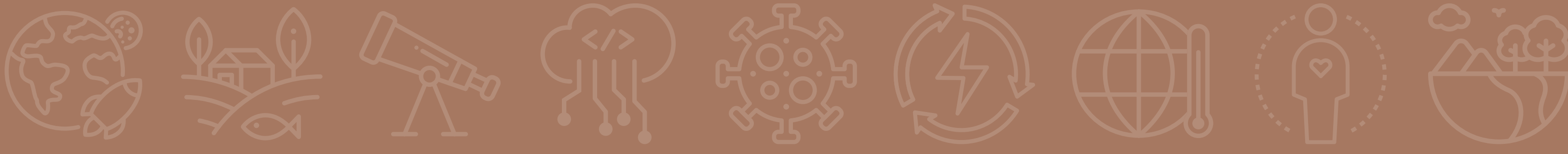
## Isabella Guan

**The Sound Catcher 2.0: A new and improved innovative device harvesting energy from sound**

Quinte - Ontario







**Excellence Award - Bronze**  
**Prix d'excellence - bronze**

Junior

## Kanav Gulati

**B.I.D.S. (Black Ice Detection System) - A system to detect an invisible threat - Black Ice!**

Regina - Saskatchewan







# Excellence Award - Bronze Prix d'excellence - bronze

Junior

## Yui Jennings

### The Ideal Locker

Tri-County - Nova Scotia



Grade 7 Surveys

Gr. 7	How often do you use your locker?	Why is that so?
1.	Never	I have nothing in my locker
2.	Barely	I keep everything in my locker
3.	Never	Too much to remember
4.	Never	
5.	Never	
6.	Not often	
7.	Never	
8.	Every day	
9.	Not often	
10.	Every day	

Grade 8 Surveys

Gr. 8	How often do you use your locker?
1.	Never



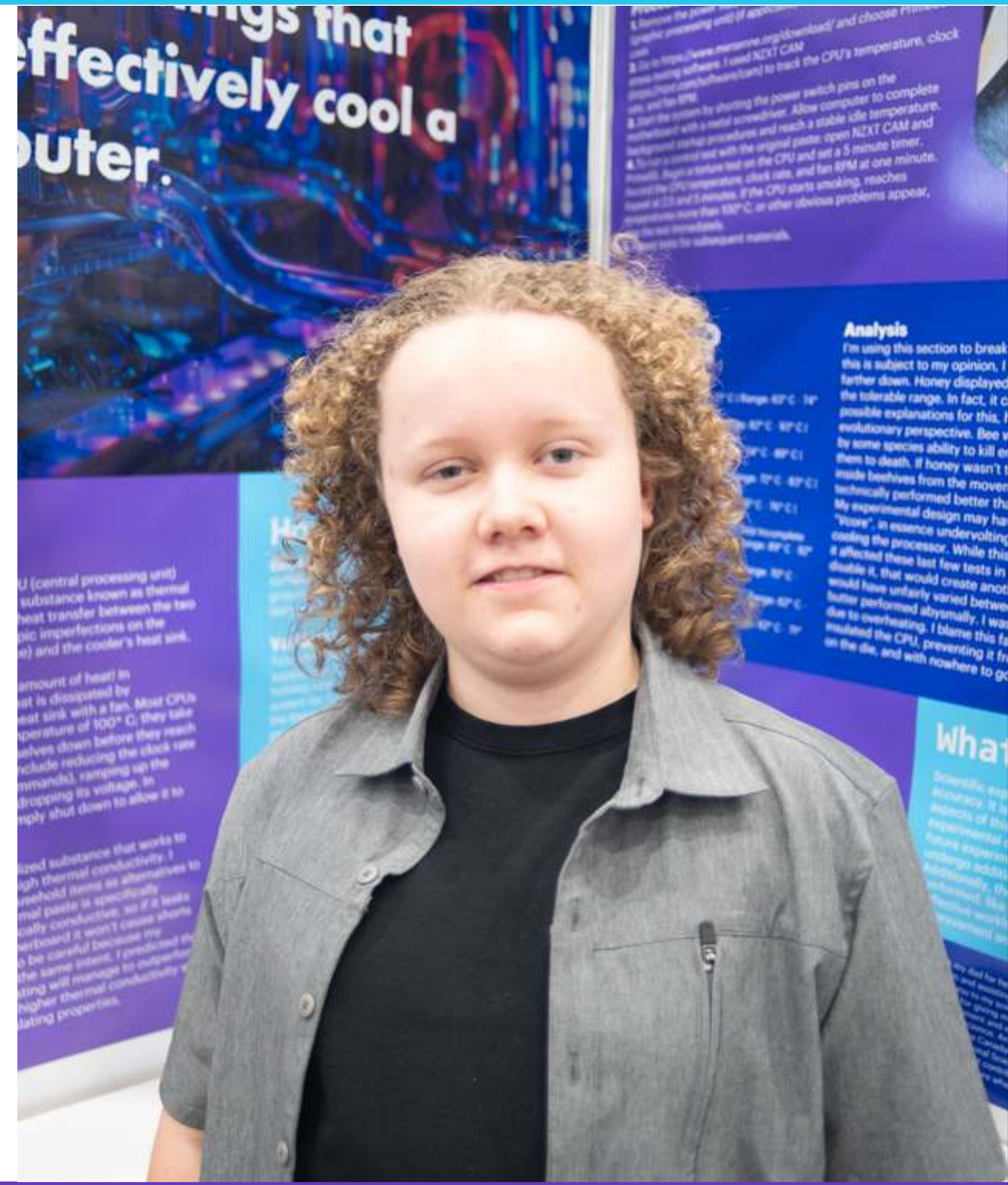


**Excellence Award - Bronze**  
**Prix d'excellence - bronze**  
Junior

# Gunnar Koehn

**Exploring Thermal Paste Alternatives**

Cariboo Mainline – British Columbia







**Excellence Award - Bronze**  
**Prix d'excellence - bronze**  
Junior

**Yuewen Li**  
**Siqi Tan**

**CRISPR-Mediated Knockout to Improve PDAC Prognosis through TME Disruption**

Bay Area - Ontario







**Excellence Award - Bronze**  
**Prix d'excellence - bronze**  
Junior

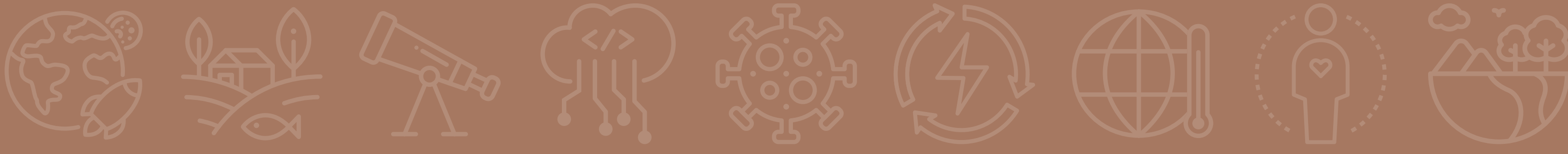
# **Chloe MacLeod** **Briyanna Wilberforce**

**Stick It To The Bacteria**

Rideau-St. Lawrence - Ontario







**Excellence Award - Bronze**  
**Prix d'excellence - bronze**  
Junior

# Dexter Rocky Roy Mentuck

**Testing the Hydrating Power of Bear Grease Bath Bombs**

MFNERC Schools – Manitoba







**Excellence Award - Bronze**

**Prix d'excellence - bronze**

Junior

## **Abereham Moges**

**Mood Foods: Testing the Impact of Nutrients on Cognitive Function and Reversing Neurodegeneration**

Western Manitoba – Manitoba







**Excellence Award - Bronze**

**Prix d'excellence - bronze**

Junior

## Felix Naghi

**Plastic Purge: Marine Debris Eliminator**

Sudbury - Ontario







**Excellence Award - Bronze**  
**Prix d'excellence - bronze**  
Junior

## Ryan Noel

**Vaping in Youth: Why are kids starting to vape?**

Lakeland - Alberta





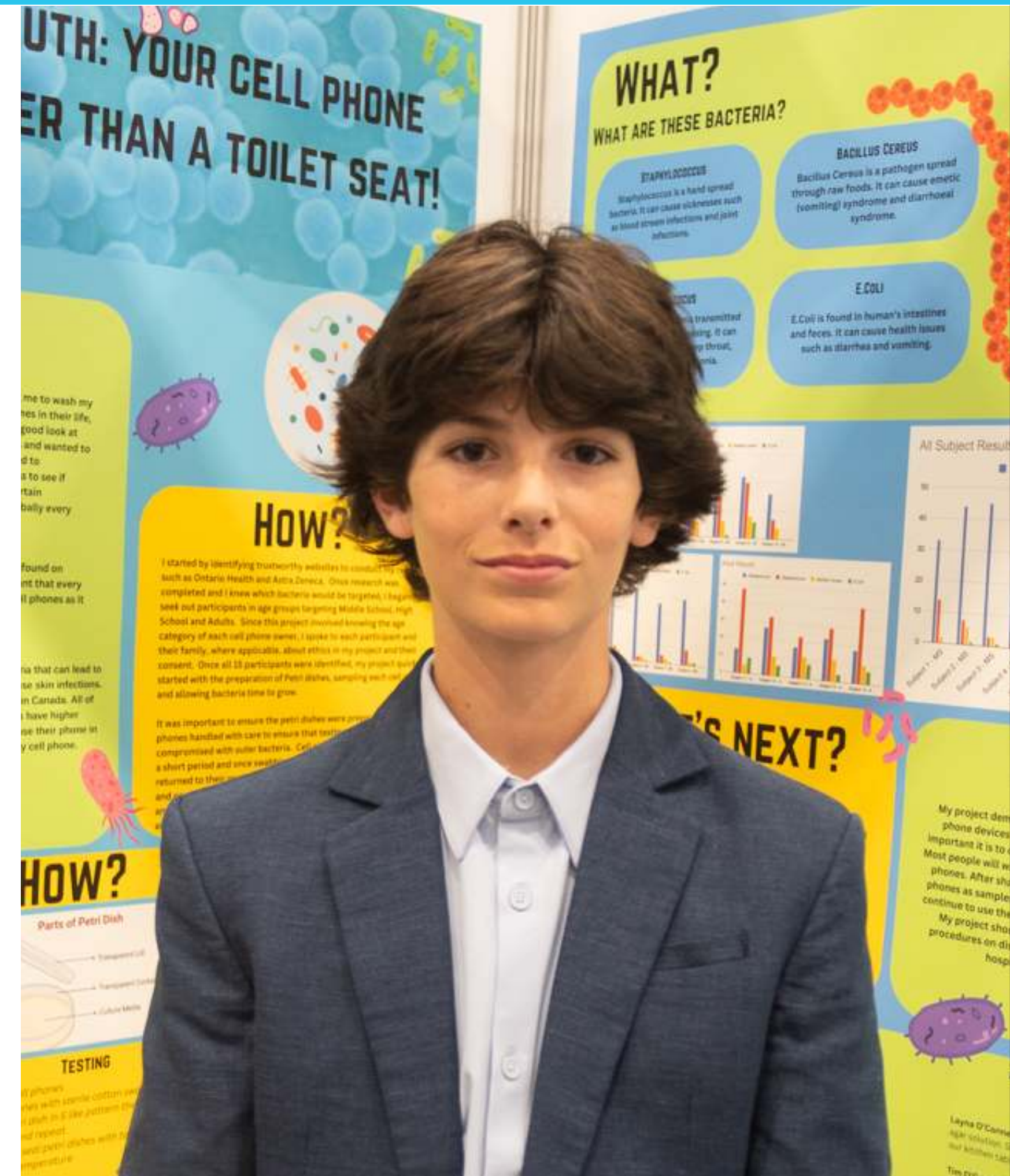


**Excellence Award - Bronze**  
**Prix d'excellence - bronze**  
Junior

# Jack O'Connell

**Are Adults Dirtier Than Kids?**

Sudbury - Ontario







Excellence Award - Bronze

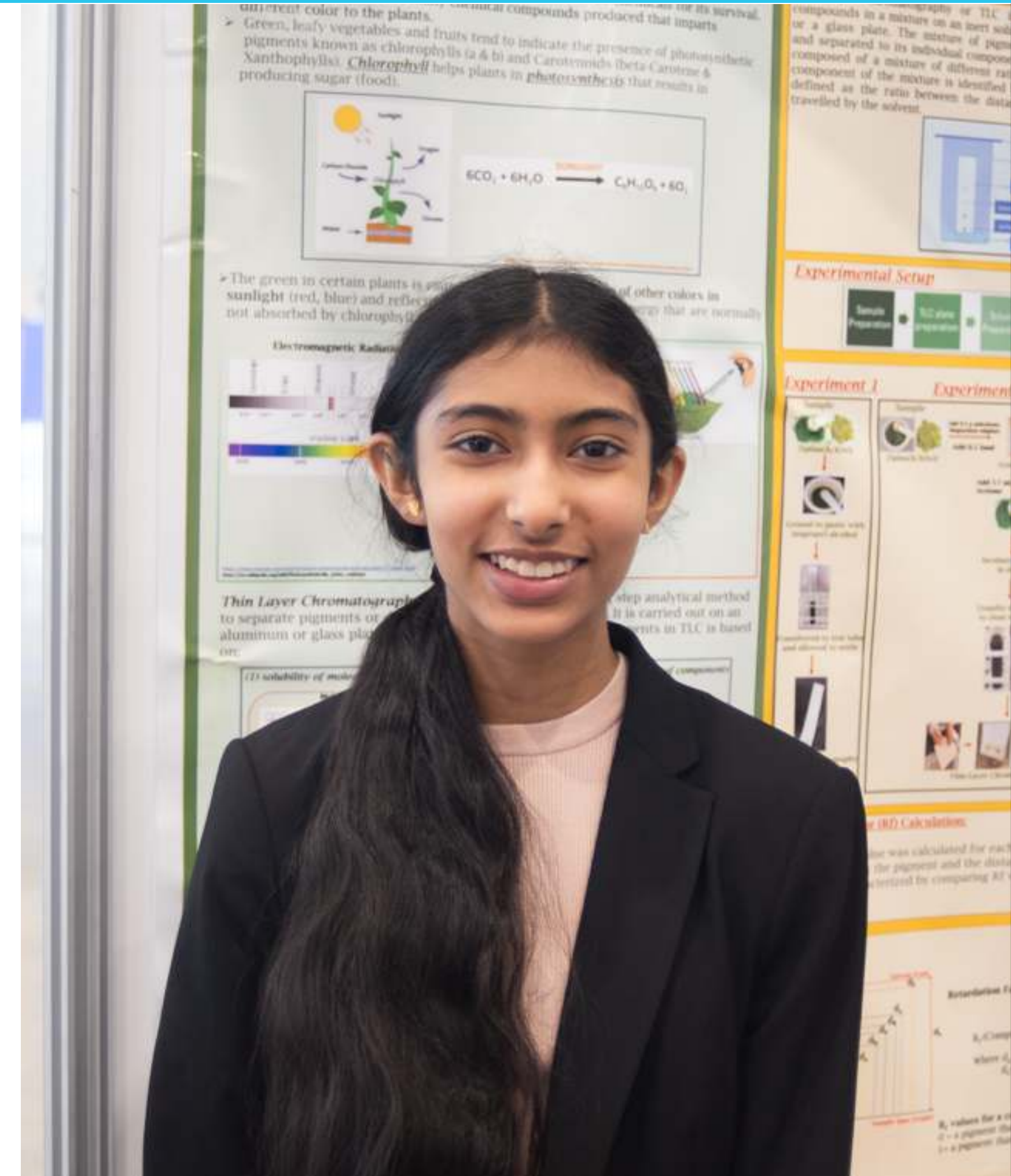
Prix d'excellence - bronze

Junior

## Aditi Ramanarayan

Separation of Pigments from Spinach Leaves and Kiwi Fruit by Thin Layer Chromatography

Edmonton - Alberta







**Excellence Award - Bronze**  
**Prix d'excellence - bronze**

Junior

# Zavier Simard

**VAWT to WATT: Capturing Wind Energy on Cars**

Sudbury - Ontario







**Excellence Award - Bronze**  
**Prix d'excellence - bronze**  
Junior

# Kristina Tannert

**From Oil Spills to Algae Thrills**

Central Interior BC – British Columbia







**Excellence Award - Bronze**

**Prix d'excellence - bronze**

Junior

# Suhandan Thangadurai

**Now You See Me Too**

Calgary Youth – Alberta







**Excellence Award - Bronze**

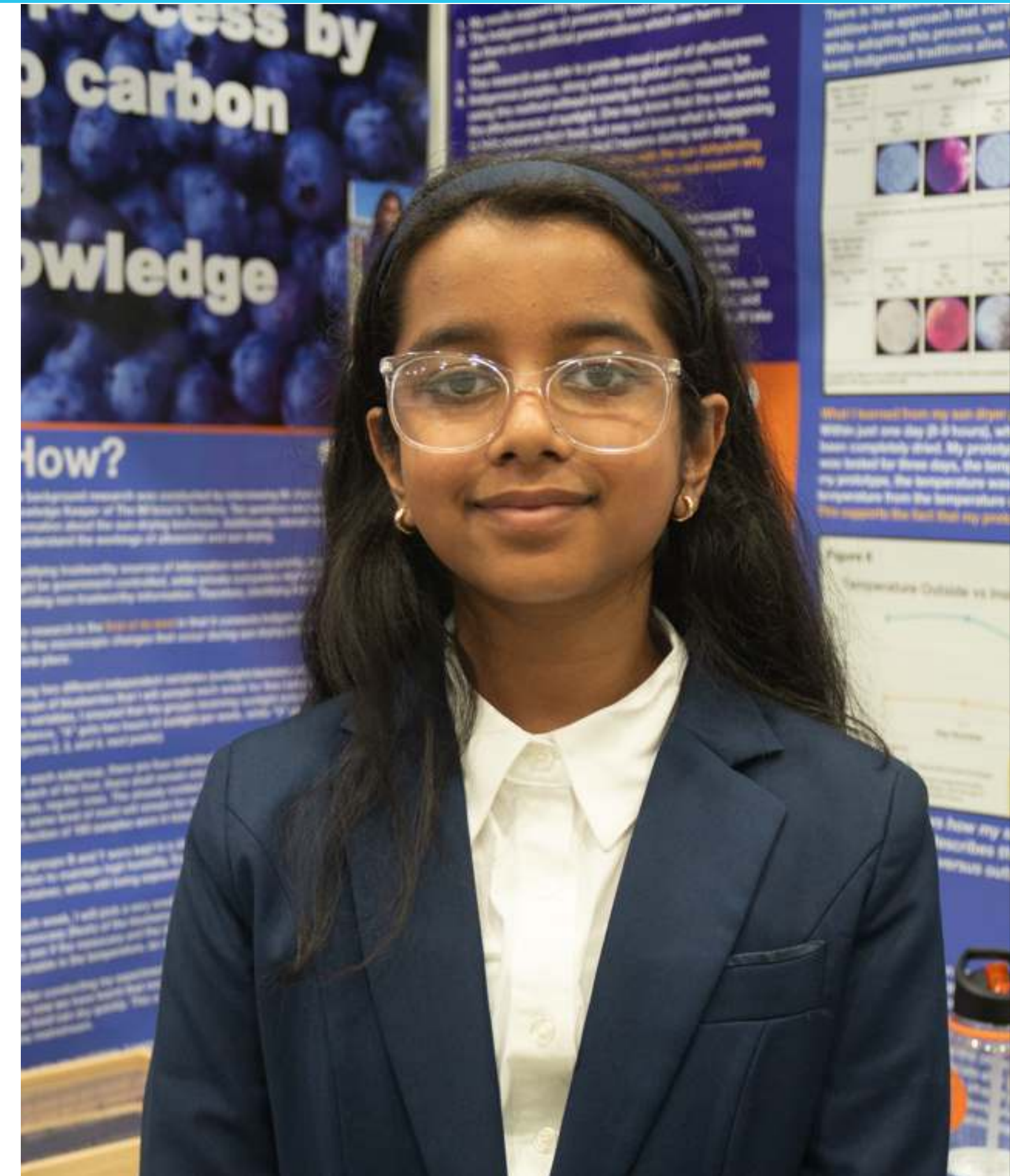
**Prix d'excellence - bronze**

Junior

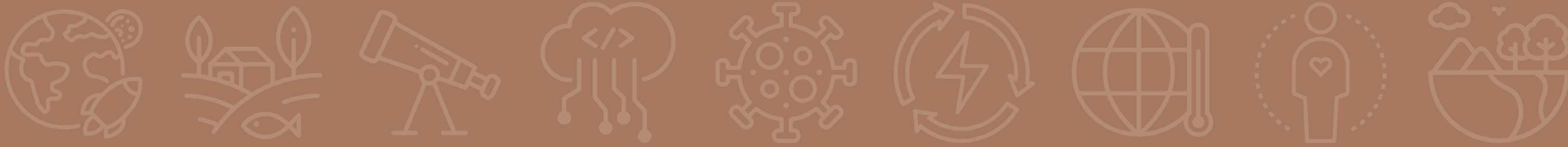
## **Saanvi Vishwakarma**

**Microscopic Investigation of Indigenous Food Preservation Technique**

Strait – Nova Scotia







**Excellence Award - Bronze**

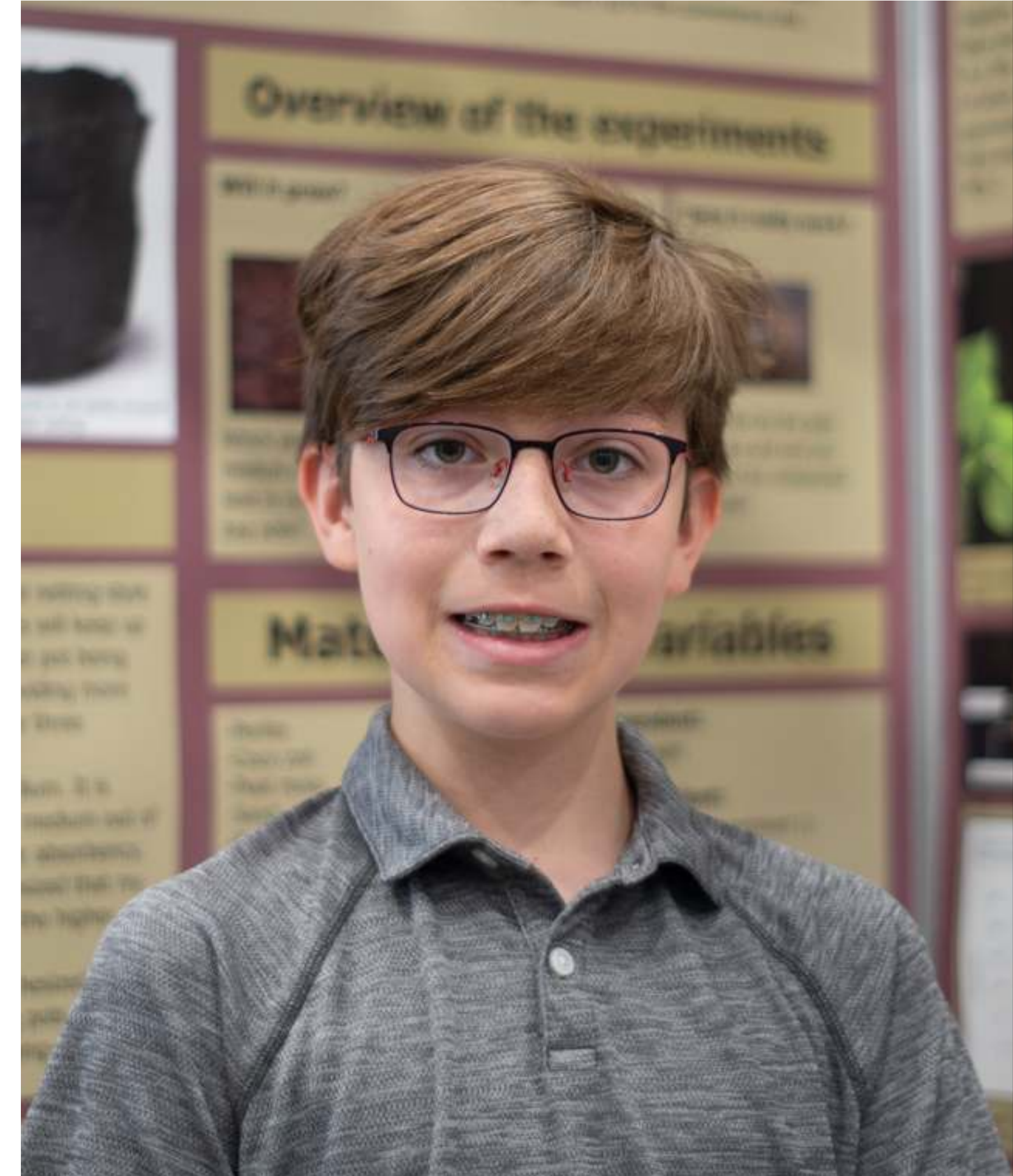
**Prix d'excellence - bronze**

Junior

## **Wesley Wilding**

**Lettuce Compost Together: Exploring Alternatives to Hydroponics Pots**

Niagara – Ontario





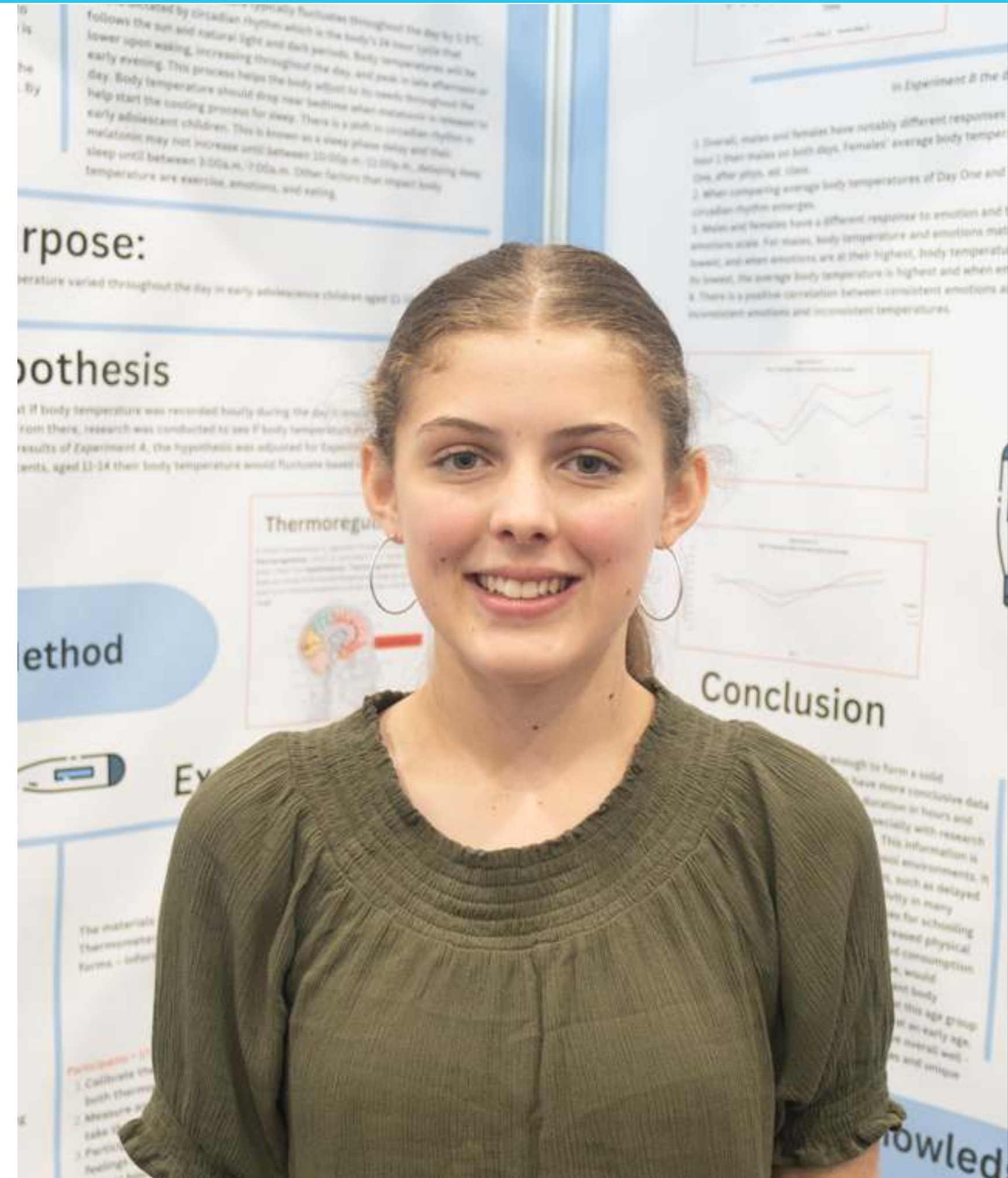


**Excellence Award - Bronze**  
**Prix d'excellence - bronze**  
Junior

# Makenna Wilson

**Body Temperature**

Bluewater - Ontario







**Excellence Award - Bronze**

**Prix d'excellence - bronze**

Junior

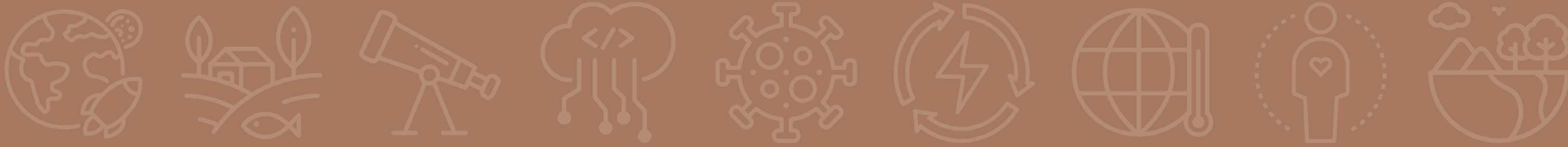
## **Sylvan Zheng**

**Soaring With the Birds: Biomimicking the Avian Wing to Improve the Performance of Modern Aircraft**

Calgary Youth – Alberta







**Excellence Award - Bronze**

**Prix d'excellence - bronze**

Intermediate / Intermédiaire

## **Finn Adamson**

**Pain Science and the Peak-End Rule**

Vancouver Island - British Columbia





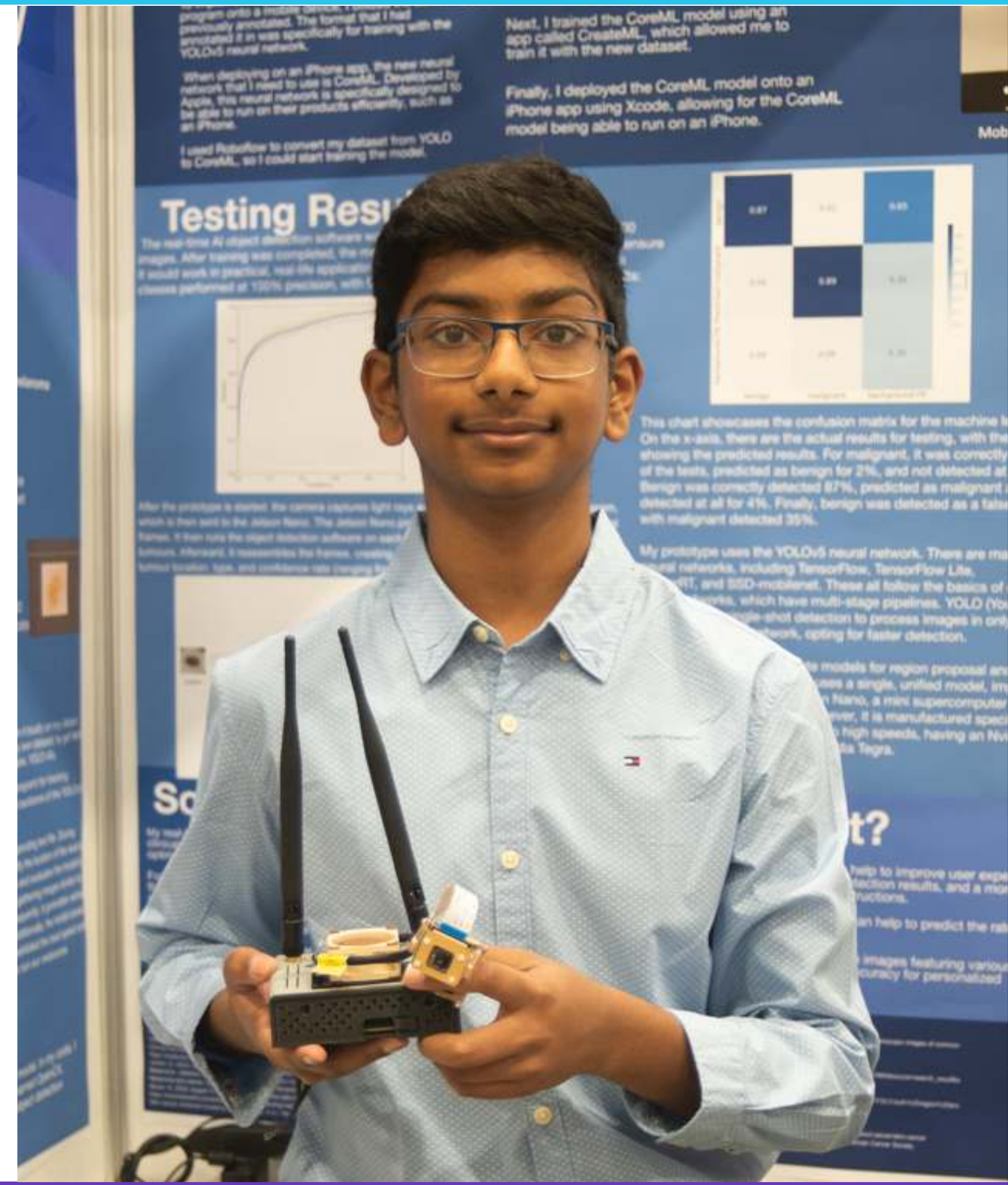


**Excellence Award - Bronze**  
**Prix d'excellence - bronze**  
Intermediate / Intermédiaire

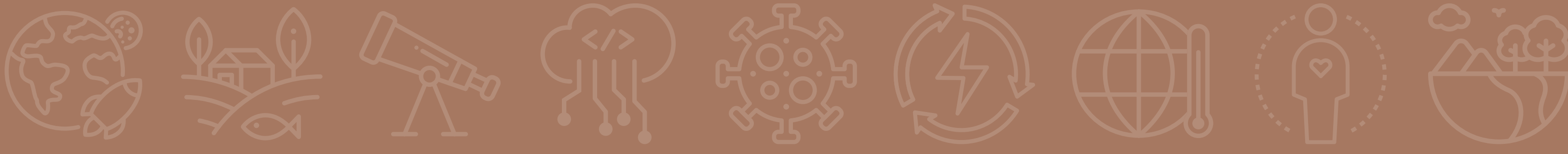
**Joel Amaldas**

**The Skin Screener: an AI Detector for Melanoma Skin Cancer**

Calgary Youth – Alberta







**Excellence Award - Bronze**

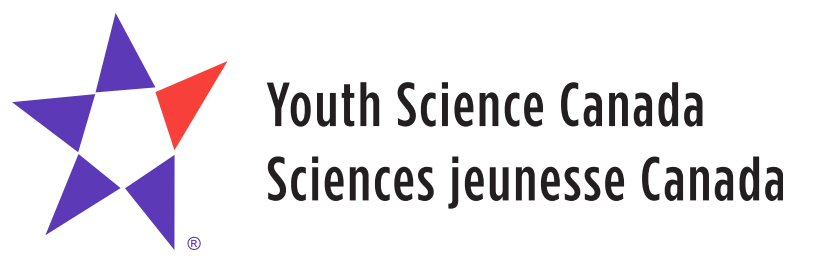
**Prix d'excellence - bronze**

Intermediate / Intermédiaire

# Shayan Awan

## NeuroSpectrum: A Brainwave-Powered Vision Enhancement Device

Wood Buffalo - Alberta







**Excellence Award - Bronze**

**Prix d'excellence - bronze**

Intermediate / Intermédiaire

## **Kaitlyn Chan**

**Predicting Surgical Patient Outcomes**

Vancouver Island - British Columbia







**Excellence Award - Bronze**

**Prix d'excellence - bronze**

Intermediate / Intermédiaire

## Brian Chang

**Conversion of Food Waste to Energy: Scaled Up from Saskatoon to Canada**

Saskatoon – Saskatchewan







**Excellence Award - Bronze**

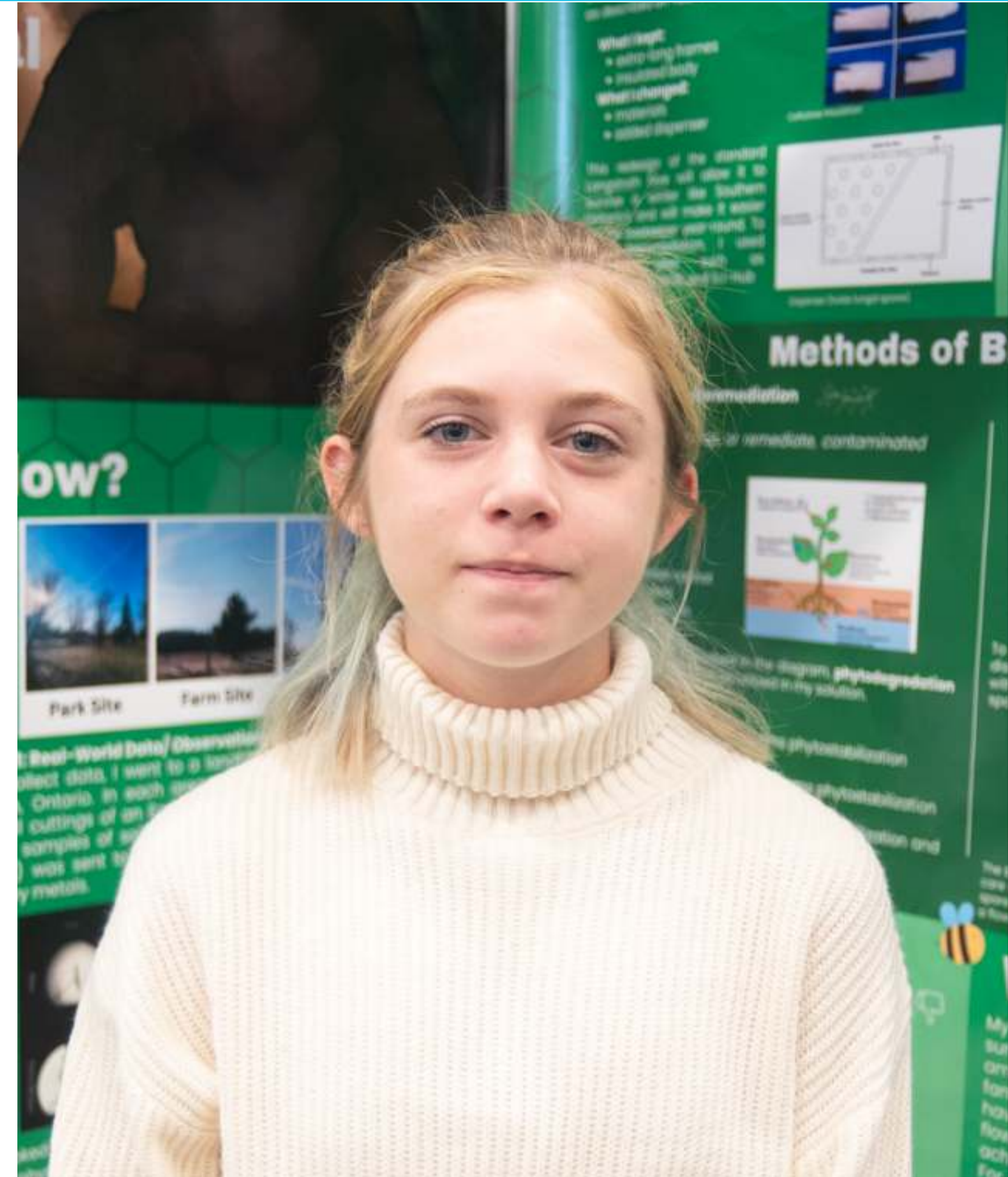
**Prix d'excellence - bronze**

Intermediate / Intermédiaire

**Lyla Chiasson**

**Seep and Destroy**

Rideau-St. Lawrence – Ontario







Excellence Award - Bronze

Prix d'excellence - bronze

Intermediate / Intermédiaire

## Kevin Cornell

Carbon-Negative Electricity: Generating Electricity from the Combustion of Scrap Metal

South-East New Brunswick – New Brunswick







**Excellence Award - Bronze**

**Prix d'excellence - bronze**

Intermediate / Intermédiaire

**Kylie Dysart**  
**Claire Linklater**

**Human Impacts on the South Indian Lake Ecosystem**

Frontier Schools – Manitoba







**Excellence Award - Bronze**

**Prix d'excellence - bronze**

Intermediate / Intermédiaire

# **Shanika-Skye Einish-Nattawappio** **Alyson Einish-Tooma**

**The Effect of Consuming Nicotine Vapes on Human Health and Lifestyle: An Investigative Study**

Aboriginal Québec Autochtone – Québec







**Excellence Award - Bronze**

**Prix d'excellence - bronze**

Intermediate / Intermédiaire

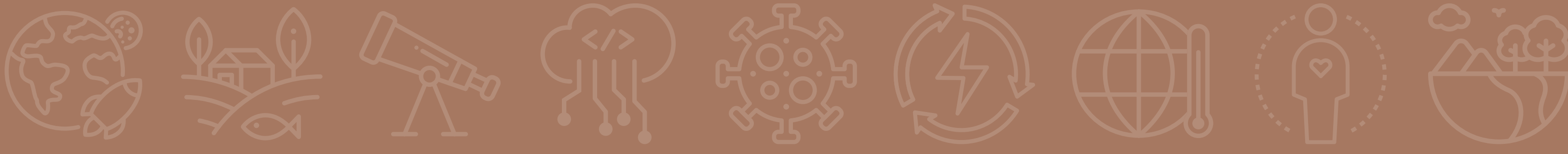
# Annaliese Froehler

**Hands-On Healing: Exploring Sustainable Rehabilitation Possibilities Using VR Hand Tracking**

East Kootenay – British Columbia







**Excellence Award - Bronze**  
**Prix d'excellence - bronze**  
Intermediate / Intermédiaire

# Malek Hammoud

**GreenGuardian: Automated Weed Detection and Elimination**

Thames Valley – Ontario







**Excellence Award - Bronze**

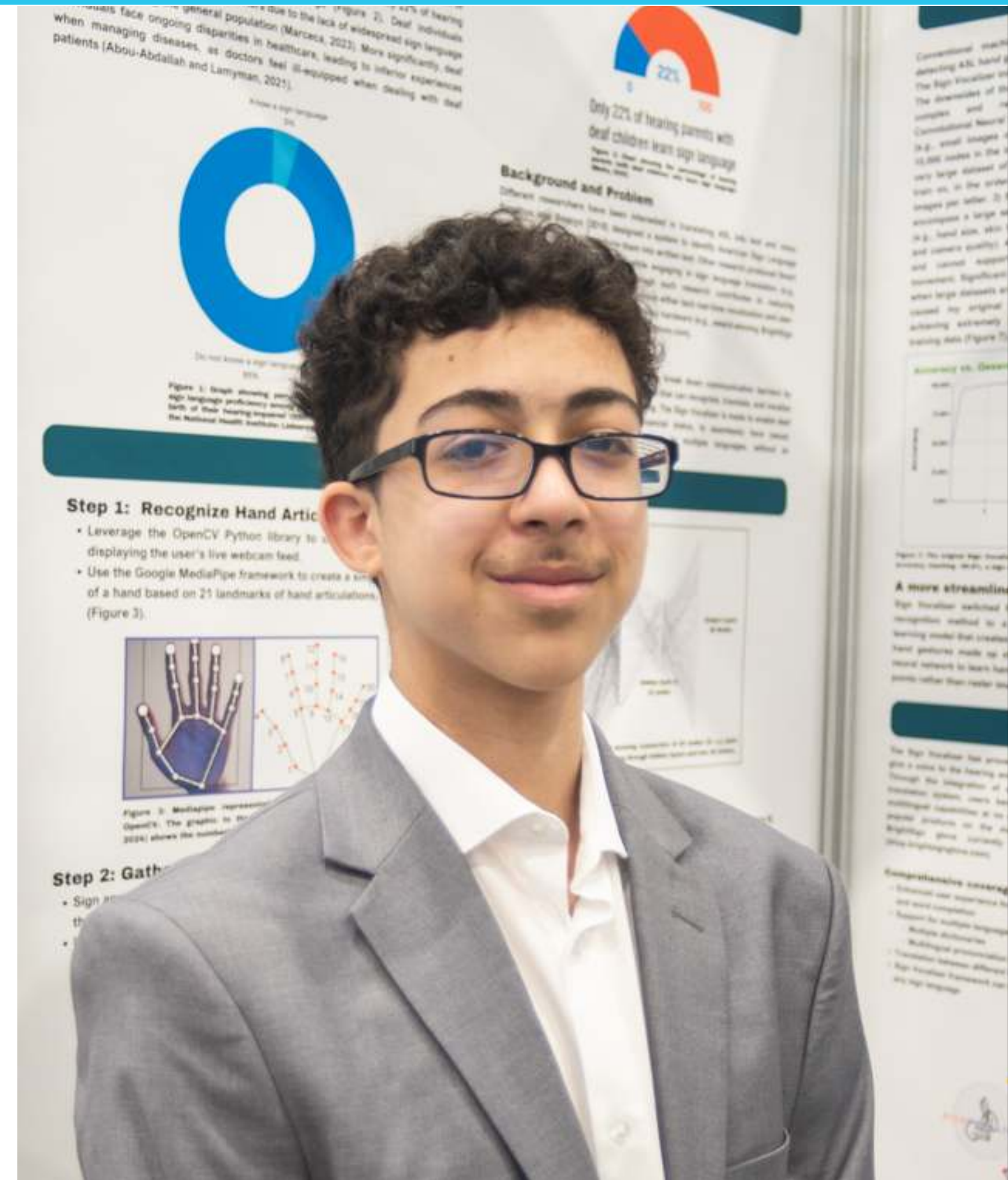
**Prix d'excellence - bronze**

Intermediate / Intermédiaire

# Sammy Hawari

**Sign Vocalizer: Elevating Non-Verbal Communication**

Waterloo-Wellington – Ontario







**Excellence Award - Bronze**

**Prix d'excellence - bronze**

Intermediate / Intermédiaire

## Ben Kawa

**Driver Wake Up 2.0: A Compact Standalone Device**

Sudbury - Ontario







**Excellence Award - Bronze**

**Prix d'excellence - bronze**

Intermediate / Intermédiaire

## Visisht Kodali

**WoundSense**

South Fraser – British Columbia







**Excellence Award - Bronze**

**Prix d'excellence - bronze**

Intermediate / Intermédiaire

## Solomon Kogan

**Effect of a Cryohelmet on Memory and Attention**

Simcoe County - Ontario







**Excellence Award - Bronze**

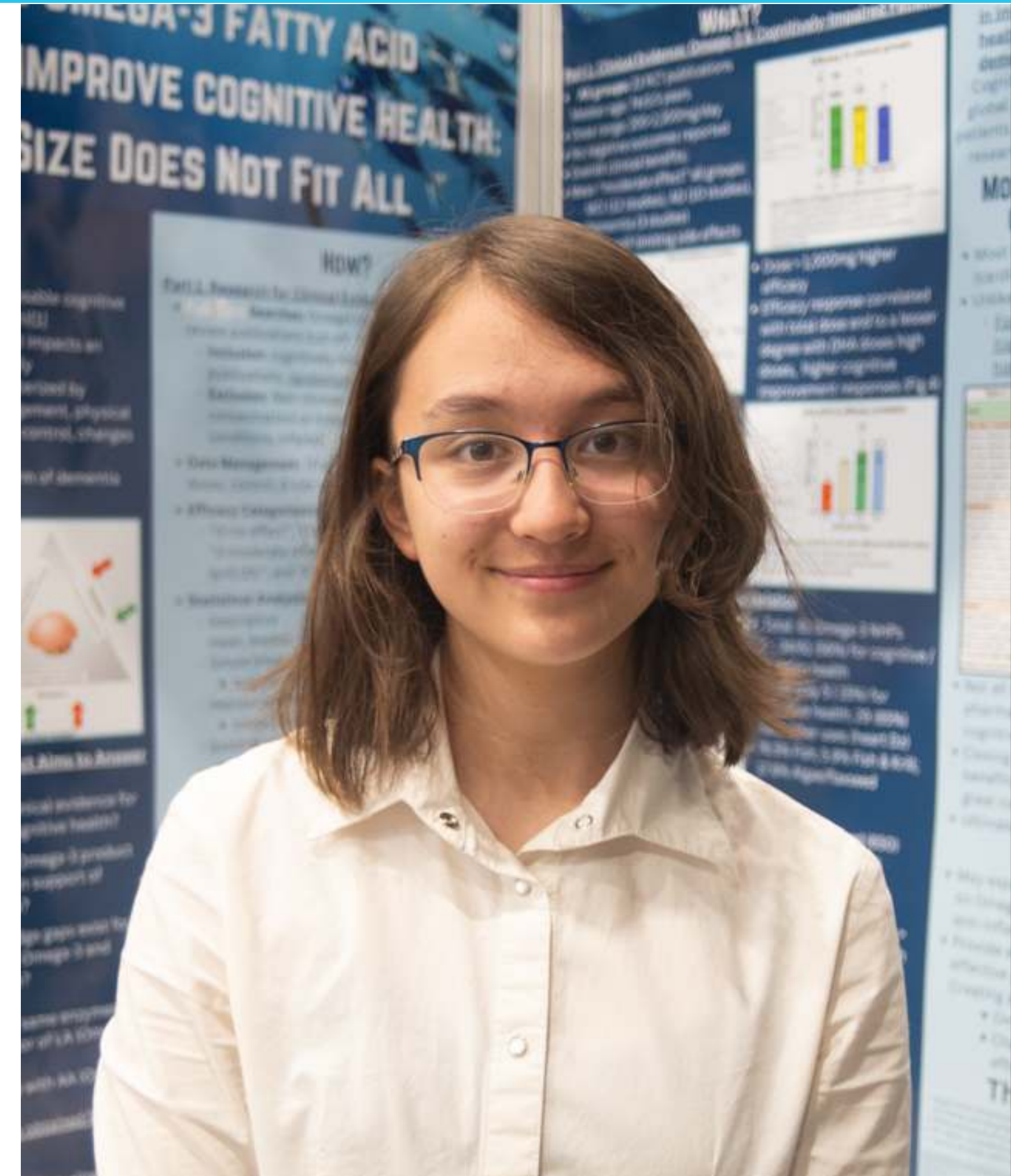
**Prix d'excellence - bronze**

Intermediate / Intermédiaire

## **Alina Kotchetkov**

**Omega-3: the Building Blocks for Brain Health**

Simcoe County – Ontario







**Excellence Award - Bronze**

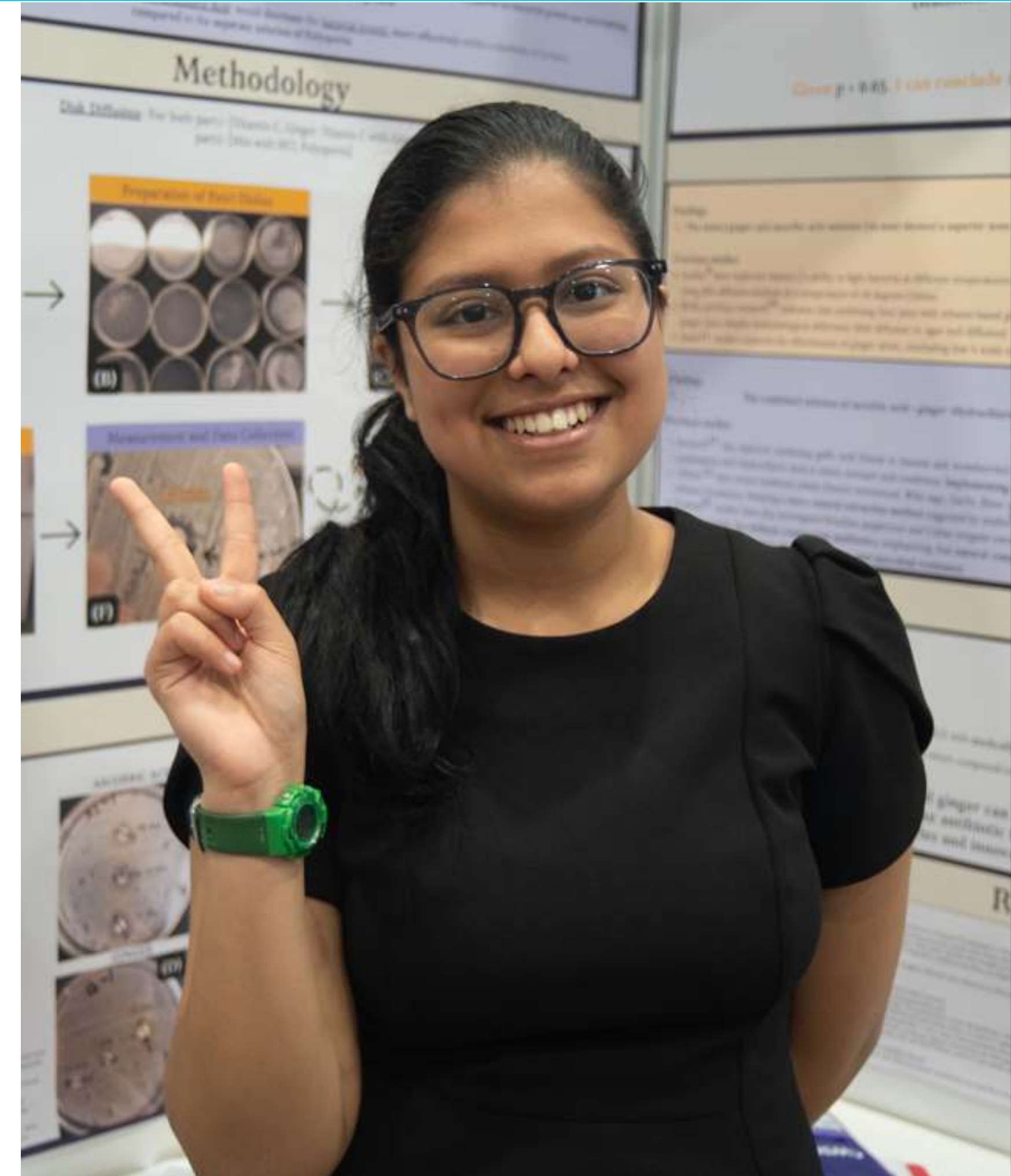
**Prix d'excellence - bronze**

Intermediate / Intermédiaire

## Sreya Kurup

**Investigating the impact of natural antibiotics on bacteria**

South Fraser – British Columbia







**Excellence Award - Bronze**

**Prix d'excellence - bronze**

Intermediate / Intermédiaire

## Avalon Lively

**Mycorrhizal Medicine: Do Mutualistic Fungi Enrich Forest Health?**

Halifax – Nova Scotia





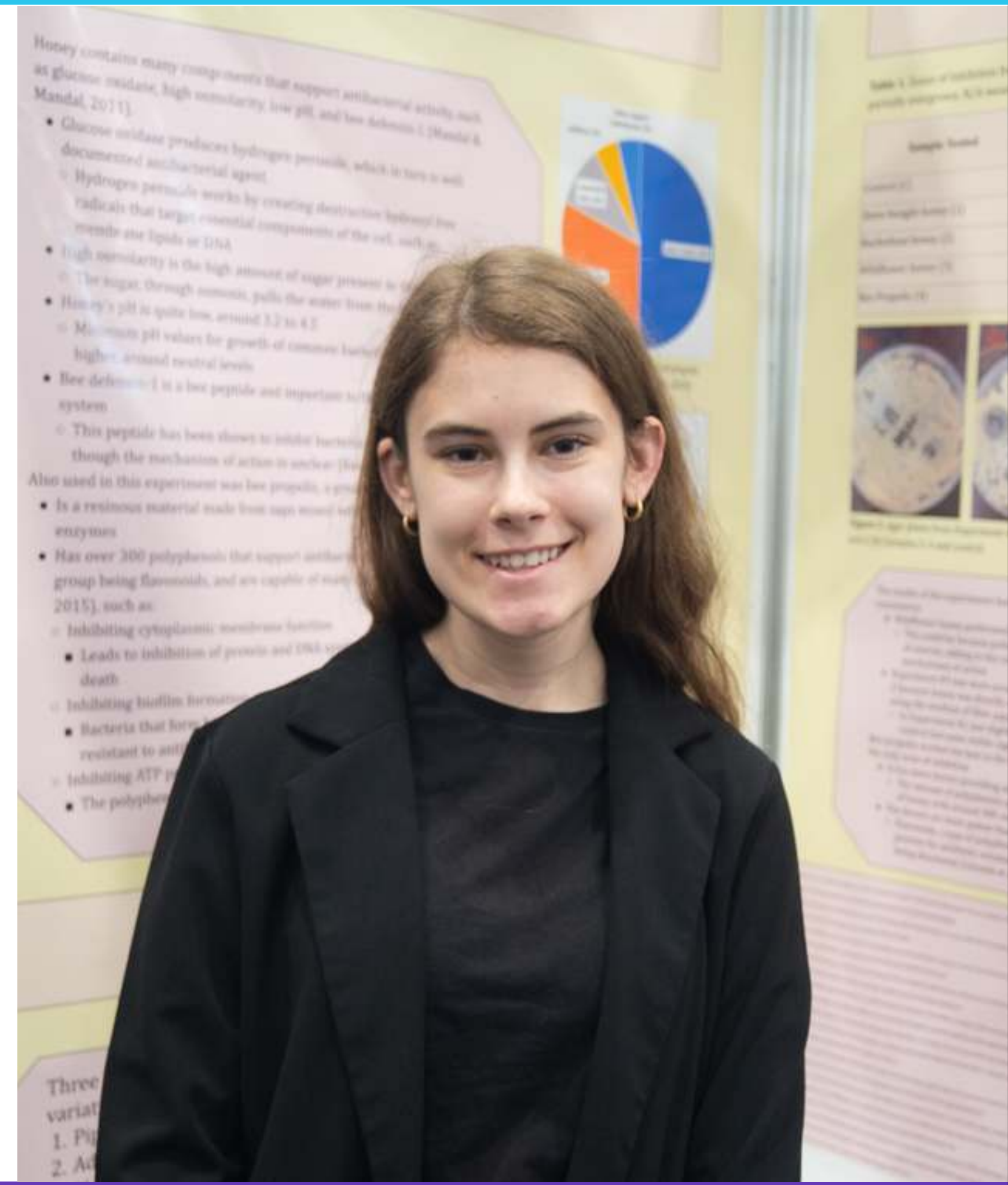


**Excellence Award - Bronze**  
**Prix d'excellence - bronze**  
Intermediate / Intermédiaire

# Persephone Mills

**The Effectiveness of Honey and Bee Propolis as an Antibacterial Agent**

Northwestern Ontario - Ontario







**Excellence Award - Bronze**

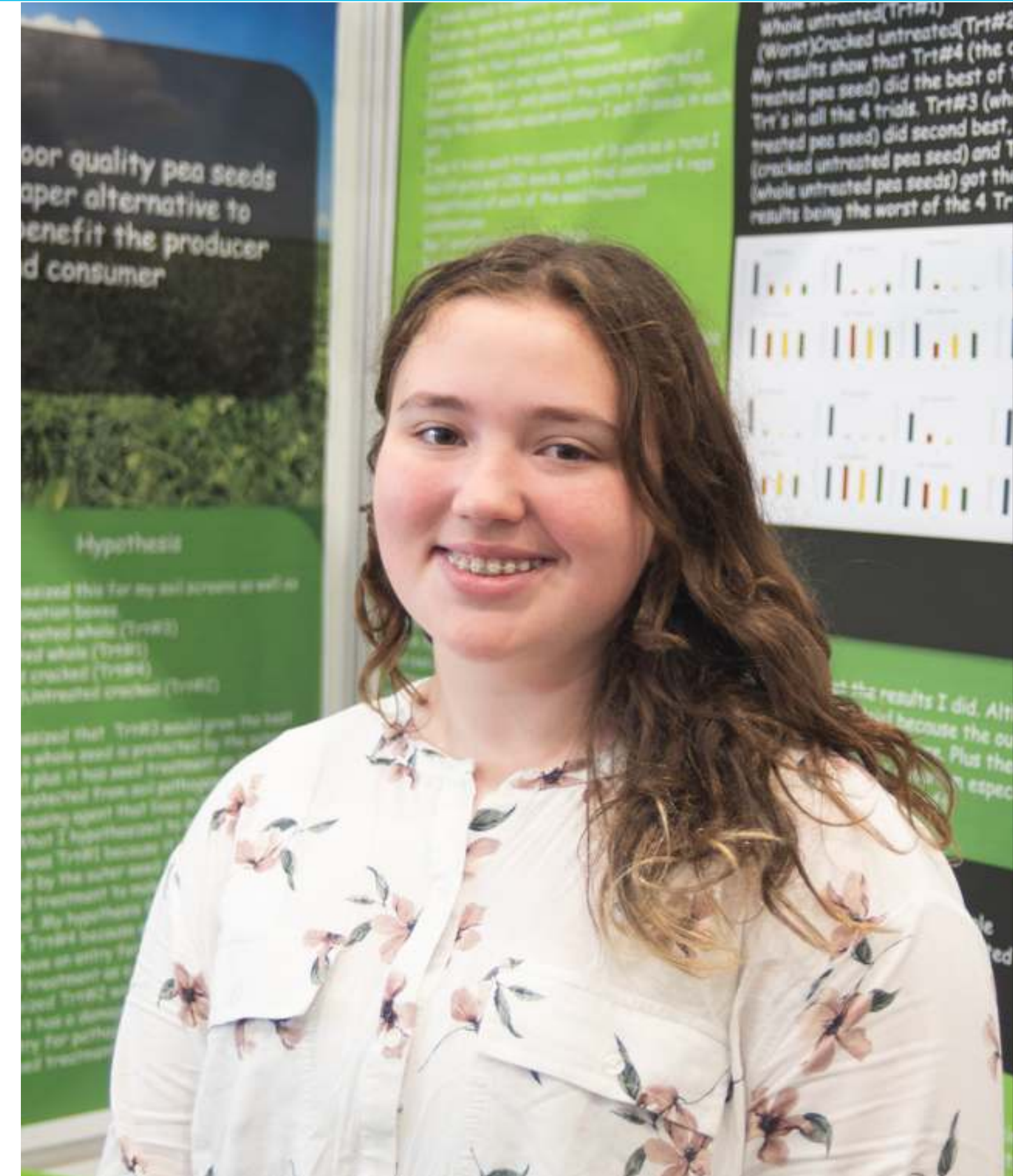
**Prix d'excellence - bronze**

Intermediate / Intermédiaire

## Isabella Pozniak

**Do seed treatments matter?**

Peace Country - Alberta







**Excellence Award - Bronze**

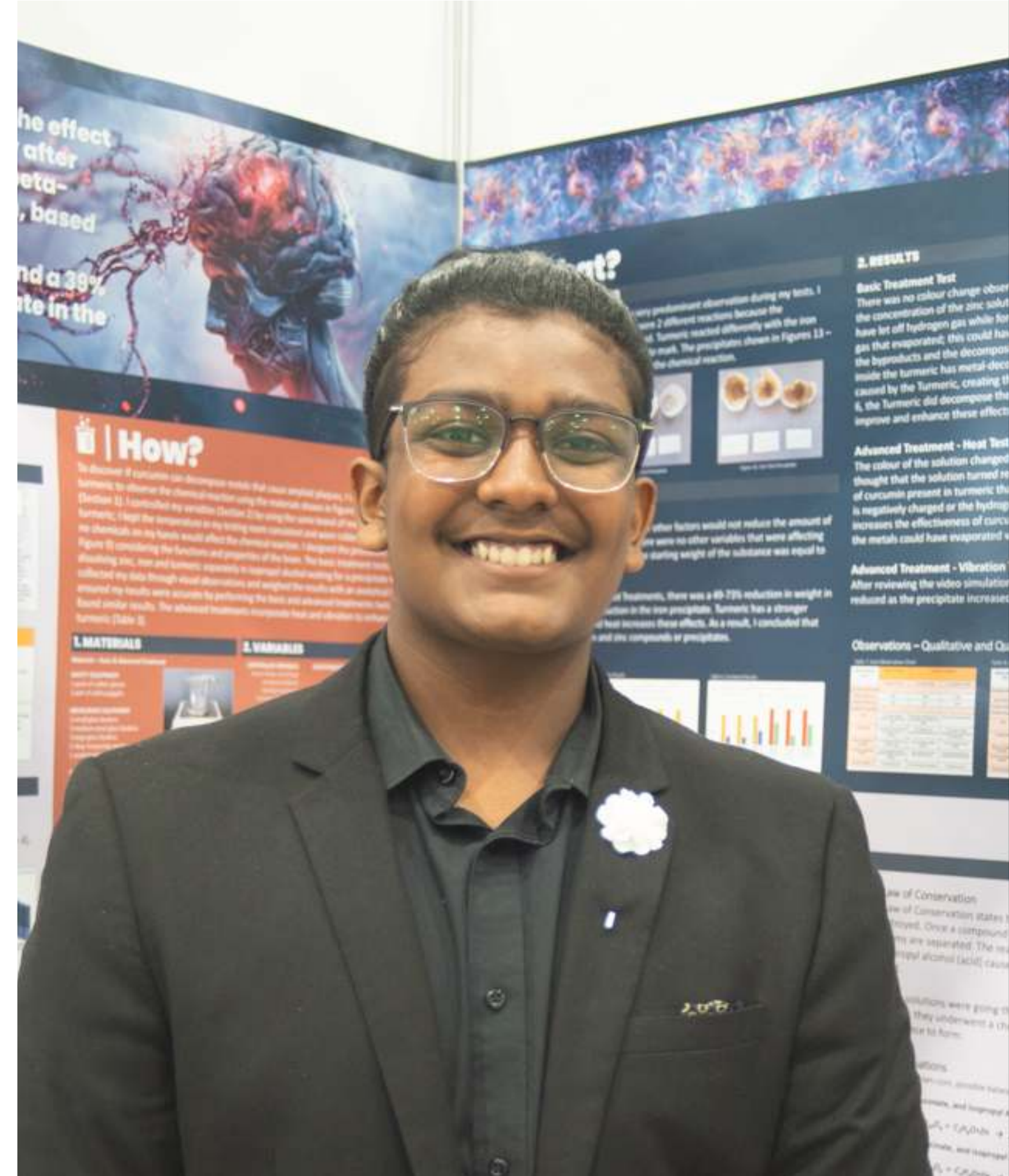
**Prix d'excellence - bronze**

Intermediate / Intermédiaire

# Reuel Ramalingam

**Turmeric; the solution to CTE?: Reducing the production of amyloid plaques in the brain after TBIs**

Durham – Ontario







**Excellence Award - Bronze**  
**Prix d'excellence - bronze**  
Intermediate / Intermédiaire

# Melia Roberts

**The Mould War: Chemical vs. Natural Mould Inhibitors**

Cape Breton - Nova Scotia







**Excellence Award - Bronze**  
**Prix d'excellence - bronze**  
Intermediate / Intermédiaire

## Raneem Salah

**The Eye Spy Scanner; The Window to Your Health**

Ottawa - Ontario







**Excellence Award - Bronze**

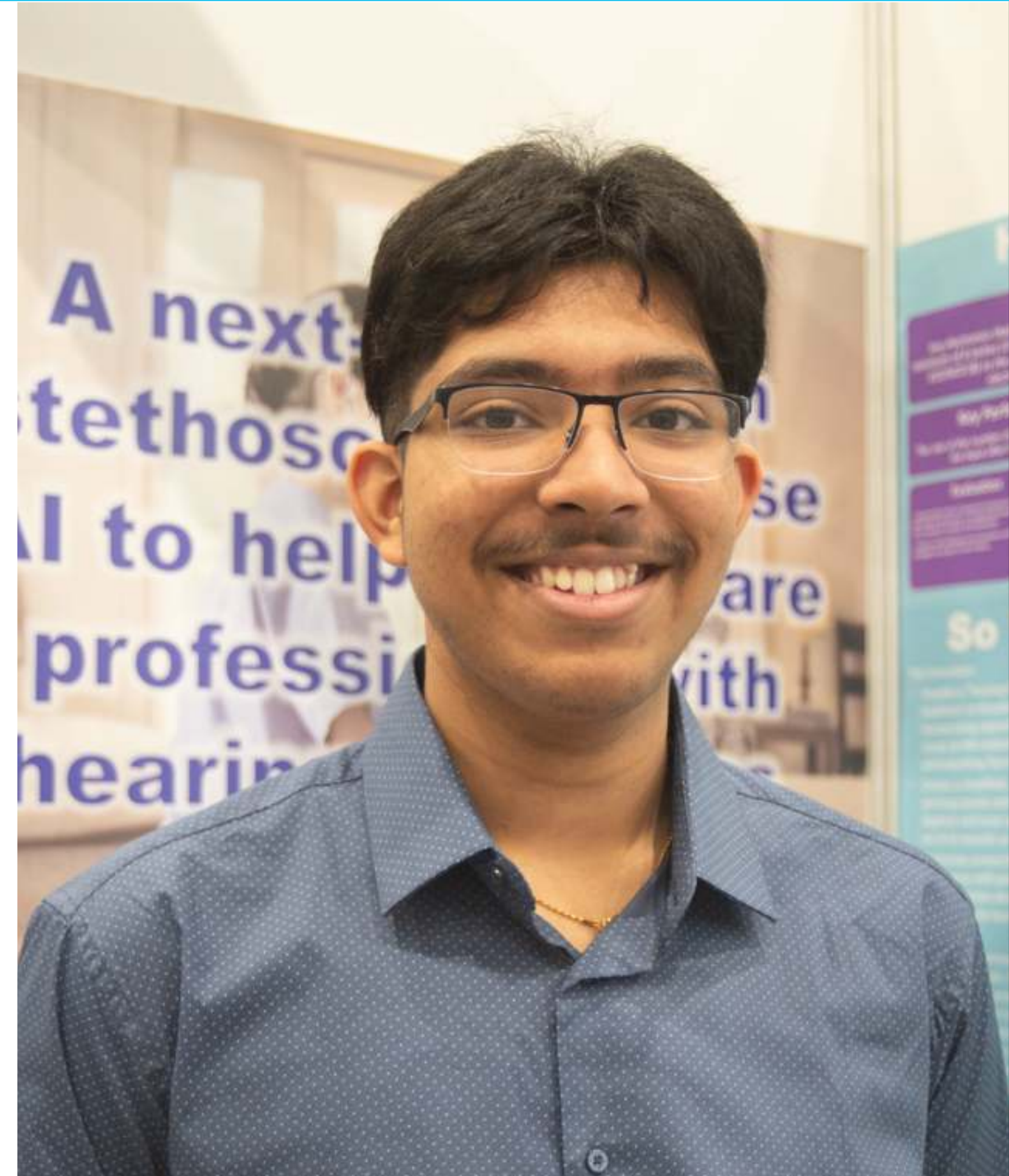
**Prix d'excellence - bronze**

Intermediate / Intermédiaire

## **Rakshan Saravanan**

**The Electrocorpulgraph: Can AI change auscultation?**

Bay Area - Ontario







**Excellence Award - Bronze**  
**Prix d'excellence - bronze**  
Intermediate / Intermédiaire

## Giya Savsani

**Highway Harvest: Determining Efficient Ways to Harness Renewable Energy on Highways**

North Bay - Ontario







**Excellence Award - Bronze**

**Prix d'excellence - bronze**

Intermediate / Intermédiaire

**Seol So**

**The Third Eye - the new approach for Visually Impaired People to Navigate Websites**

Quinte - Ontario







**Excellence Award - Bronze**

**Prix d'excellence - bronze**

Intermediate / Intermédiaire

## **Katelynn Standell**

**Is Your Happiness Killing You?**

Southeast Alberta – Alberta







**Excellence Award - Bronze**  
**Prix d'excellence - bronze**  
Intermediate / Intermédiaire

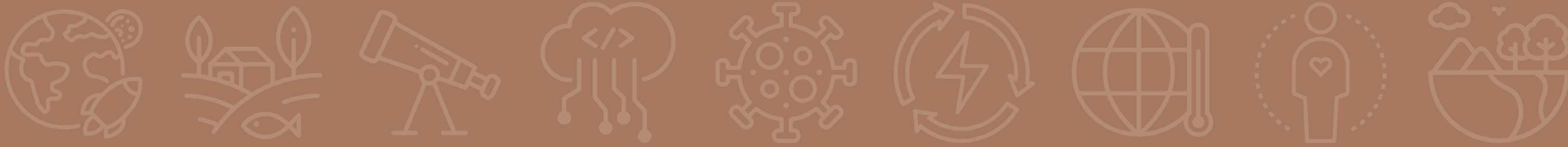
# Maiara Costa Telmer

**The Future of Composites**

Vancouver Island - British Columbia







**Excellence Award - Bronze**

**Prix d'excellence - bronze**

Intermediate / Intermédiaire

## **Daniil Tyurin**

**On The Use of Micro-Scale Piezoelectric Crystals and Their Ultrasound Wave Backscatter in BCIs**

Calgary Youth - Alberta



Youth Science Canada  
Sciences jeunesse Canada







**Excellence Award - Bronze**

**Prix d'excellence - bronze**

Intermediate / Intermédiaire

## **Kavishi Udumullage**

**Battling the Beast: Biocontrol interventions against *Fusarium graminearum* to control FHB Disease**

Manitoba Schools Science Symposium – Manitoba







**Excellence Award - Bronze**

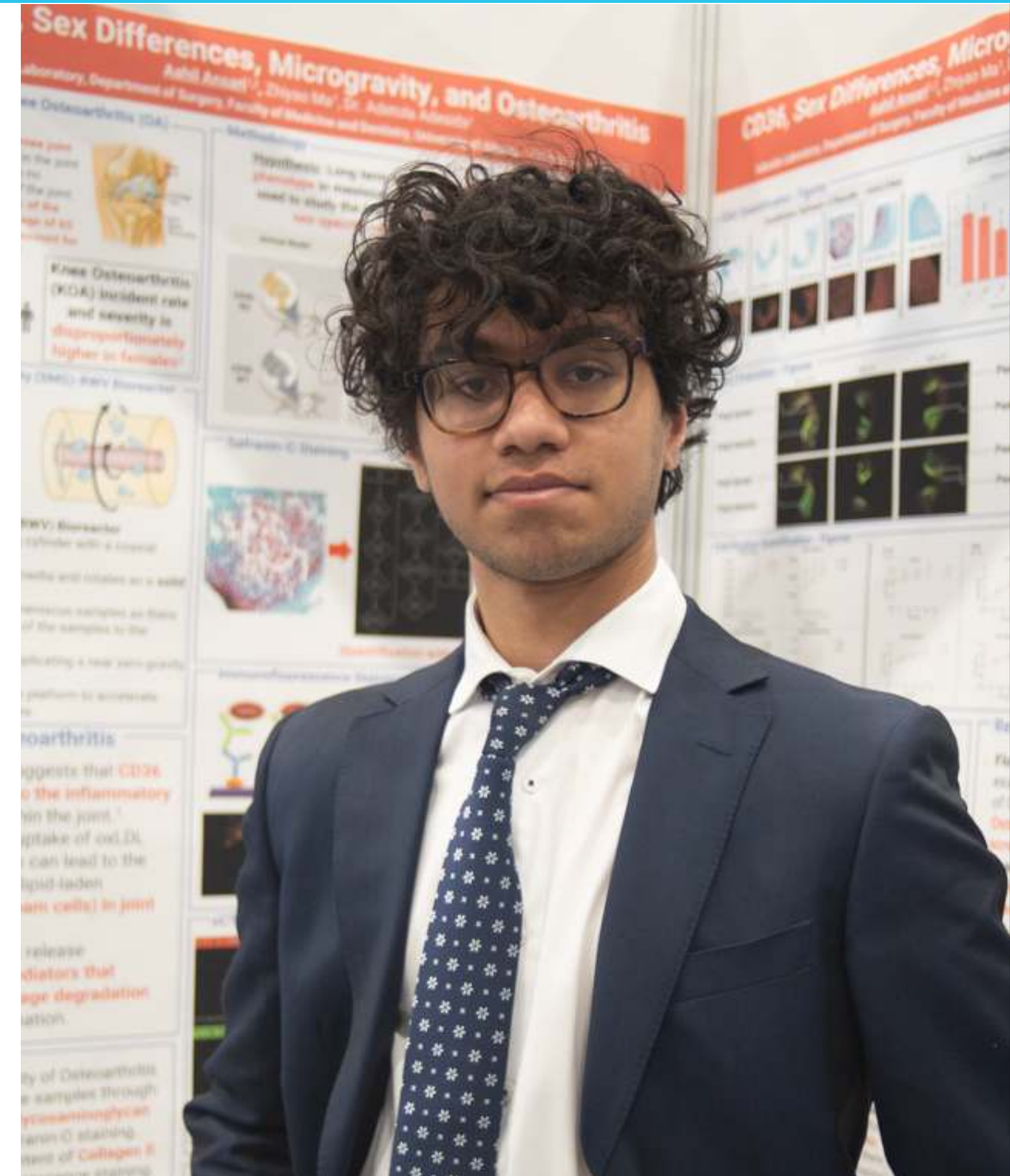
**Prix d'excellence - bronze**

Senior / Sénior

## Aahil Ansari

**CD36, Sex Differences, Microgravity, and Osteoarthritis**

Edmonton - Alberta







**Excellence Award - Bronze**

**Prix d'excellence - bronze**

Senior / Sénior

# **Braden Baumann Tessa Todd**

**Learning About Learning**

Saskatchewan Chinook – Saskatchewan







**Excellence Award - Bronze**

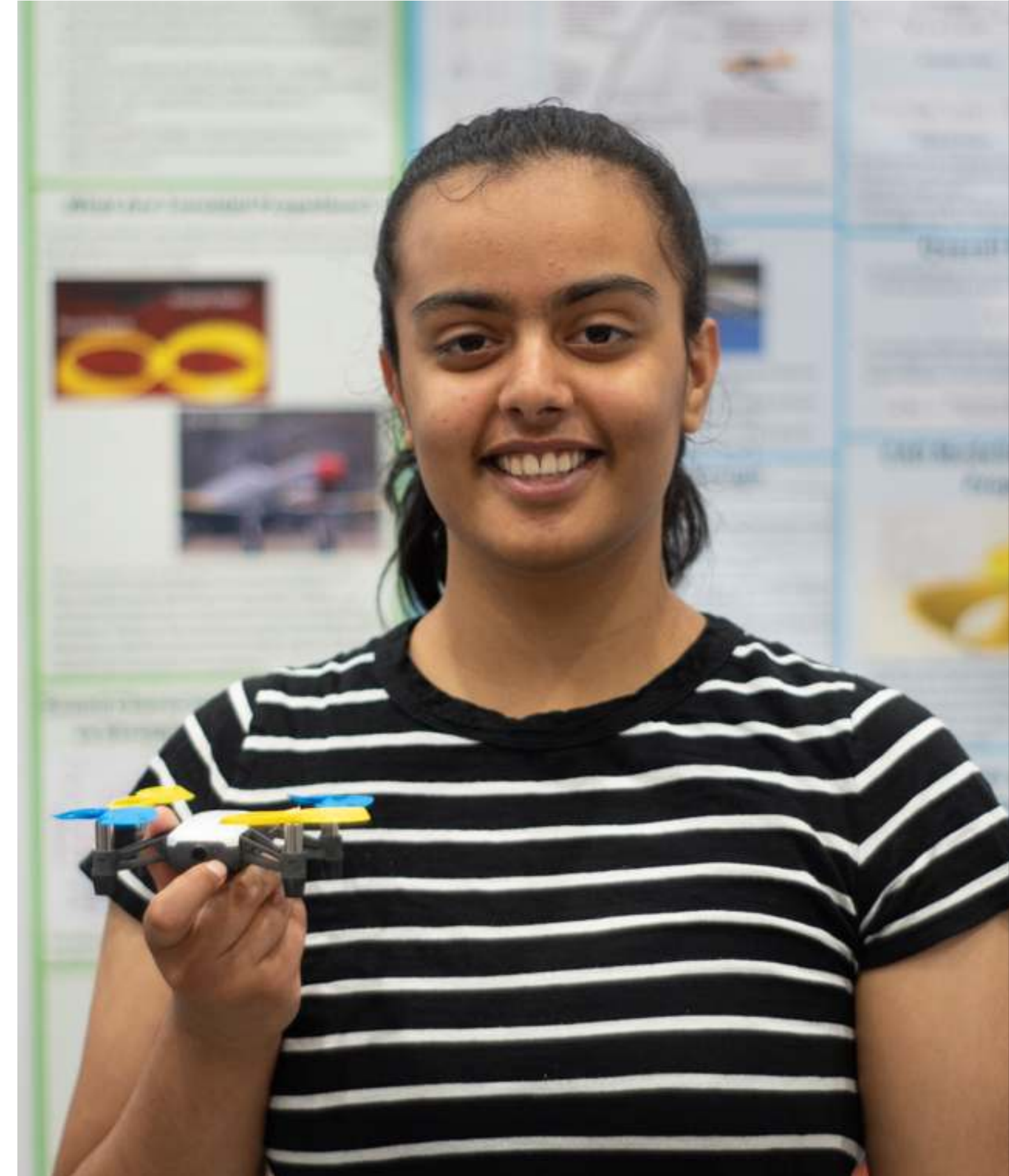
**Prix d'excellence - bronze**

Senior / Sénior

## **Amani Kaur Bhullar**

**Analysis of Toroidal Propeller Sound Characteristics & Efficiency**

Ottawa – Ontario







**Excellence Award - Bronze**

**Prix d'excellence - bronze**

Senior / Sénior

## **Kamryn Binns**

**Nutrient Solutions in Hydroponic Gardens**

Cape Breton – Nova Scotia





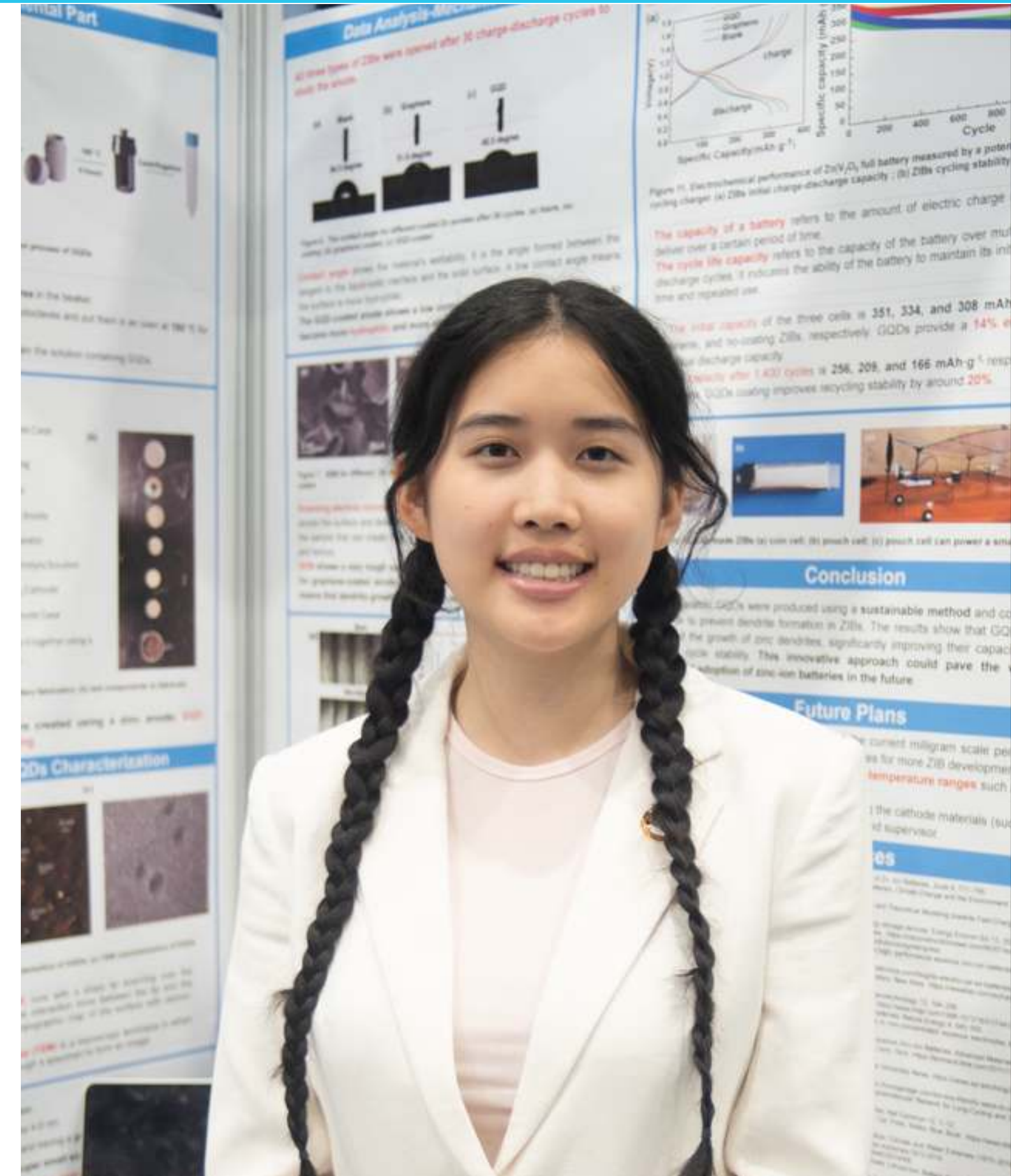


**Excellence Award - Bronze**  
**Prix d'excellence - bronze**  
Senior / Sénior

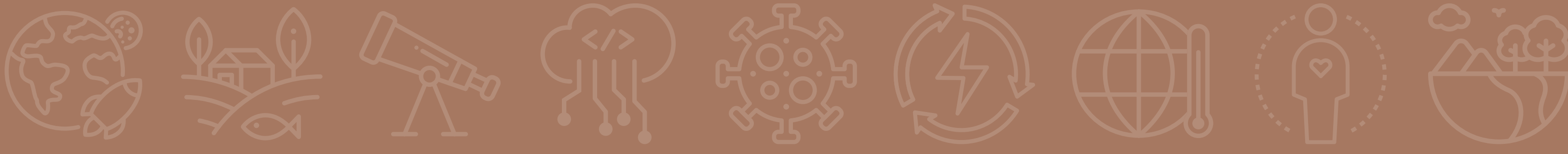
**Anna Chen**

**Graphene Quantum Dots for Dendrite-Free Zinc-Ion Batteries**

Waterloo-Wellington – Ontario







**Excellence Award - Bronze**  
**Prix d'excellence - bronze**  
Senior / Sénior

# Jason Cheng

**Cleaner Sponges, Greener Planet**  
Vancouver Island - British Columbia





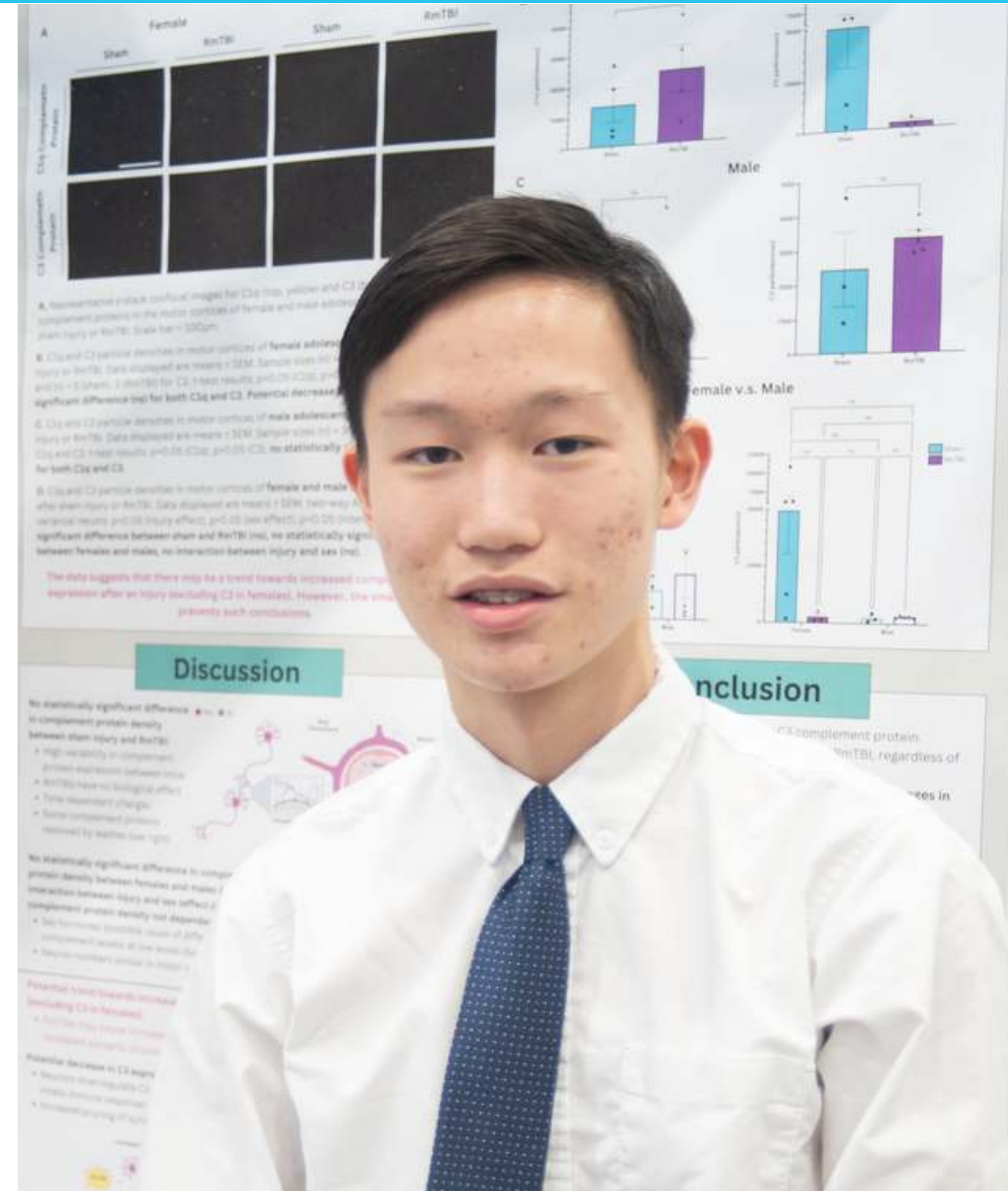


**Excellence Award - Bronze**  
**Prix d'excellence - bronze**  
Senior / Sénior

# Cooper Choi

## Effect of Repeated Concussions on Complement Protein Expression in Adolescent Brains

Calgary Youth - Alberta







**Excellence Award - Bronze**

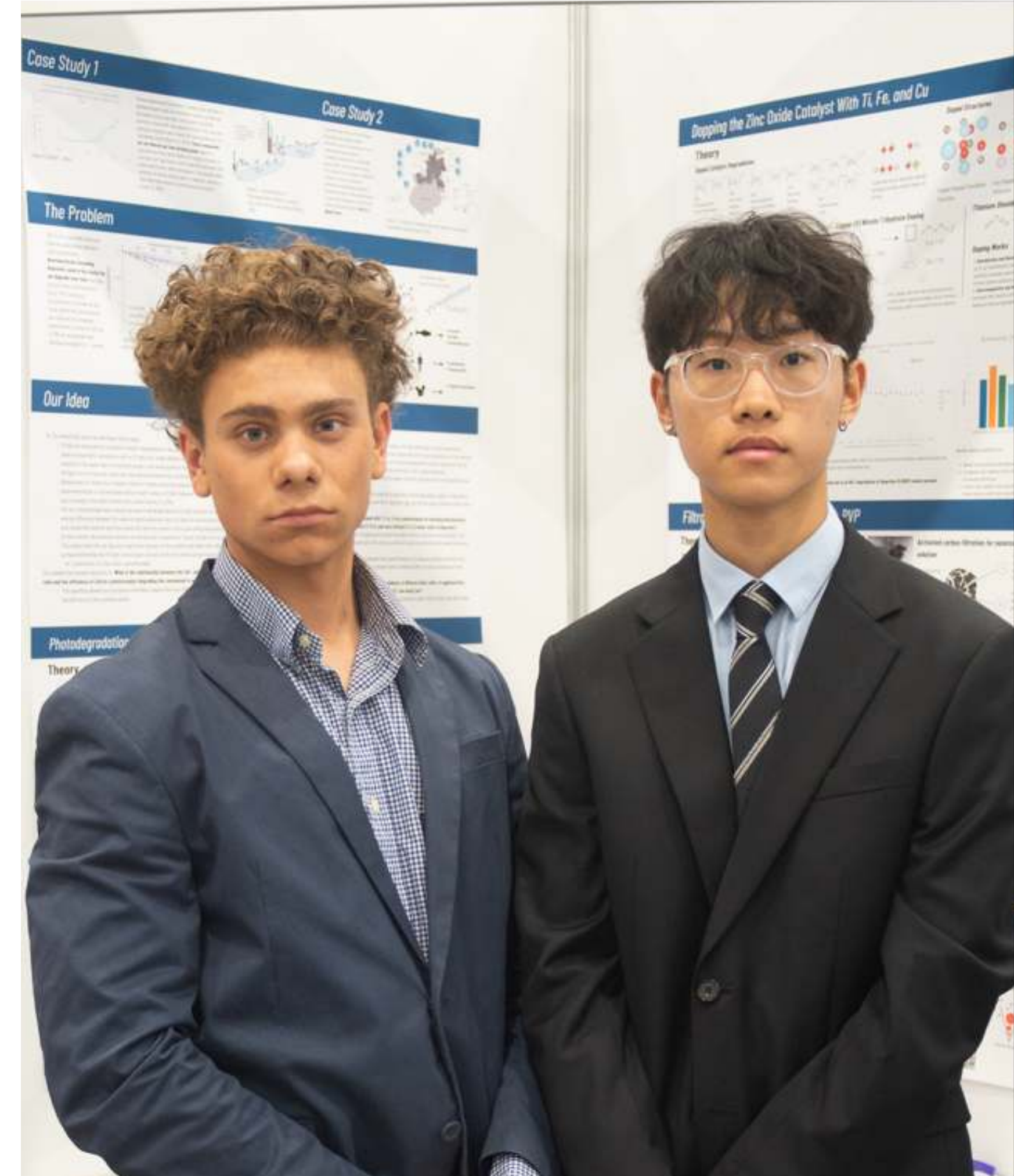
**Prix d'excellence - bronze**

Senior / Sénior

# **Dennis Golubev** **Justin Yu**

**A Novel Approach to Wastewater Treatment**

Fraser Valley – British Columbia







**Excellence Award - Bronze**

**Prix d'excellence - bronze**

Senior / Sénior

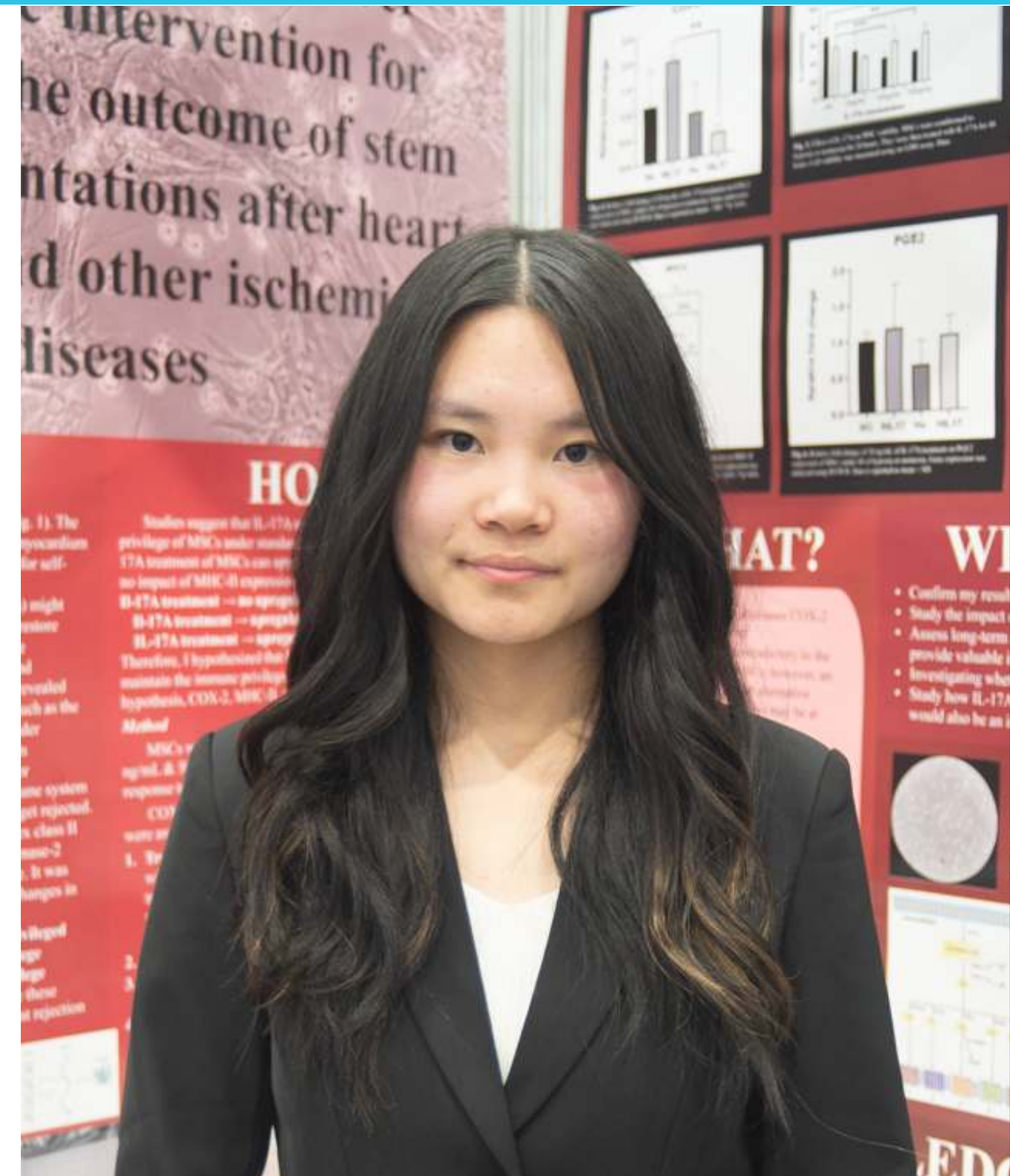
## Anqi Guan

**Can IL-17A help Maintain the Immune Privilege of Mesenchymal Stem Cells under Hypoxia?**

Winnipeg Schools – Manitoba



Youth Science Canada  
Sciences jeunesse Canada







**Excellence Award - Bronze**

**Prix d'excellence - bronze**

Senior / Sénior

## **Ava Haynes**

**Observing and Culturing Cyanobacteria**

Saskatchewan First Nations – Saskatchewan







**Excellence Award - Bronze**

**Prix d'excellence - bronze**

Senior / Sénior

# **Nuttanon Jarnpho** **Chavapon Rungrittpanyo**

**Biodegradable Printed Circuit Board from Rice Straw Binding with Hyphae from Grey Oyster Mushroom**

Thailand







**Excellence Award - Bronze**

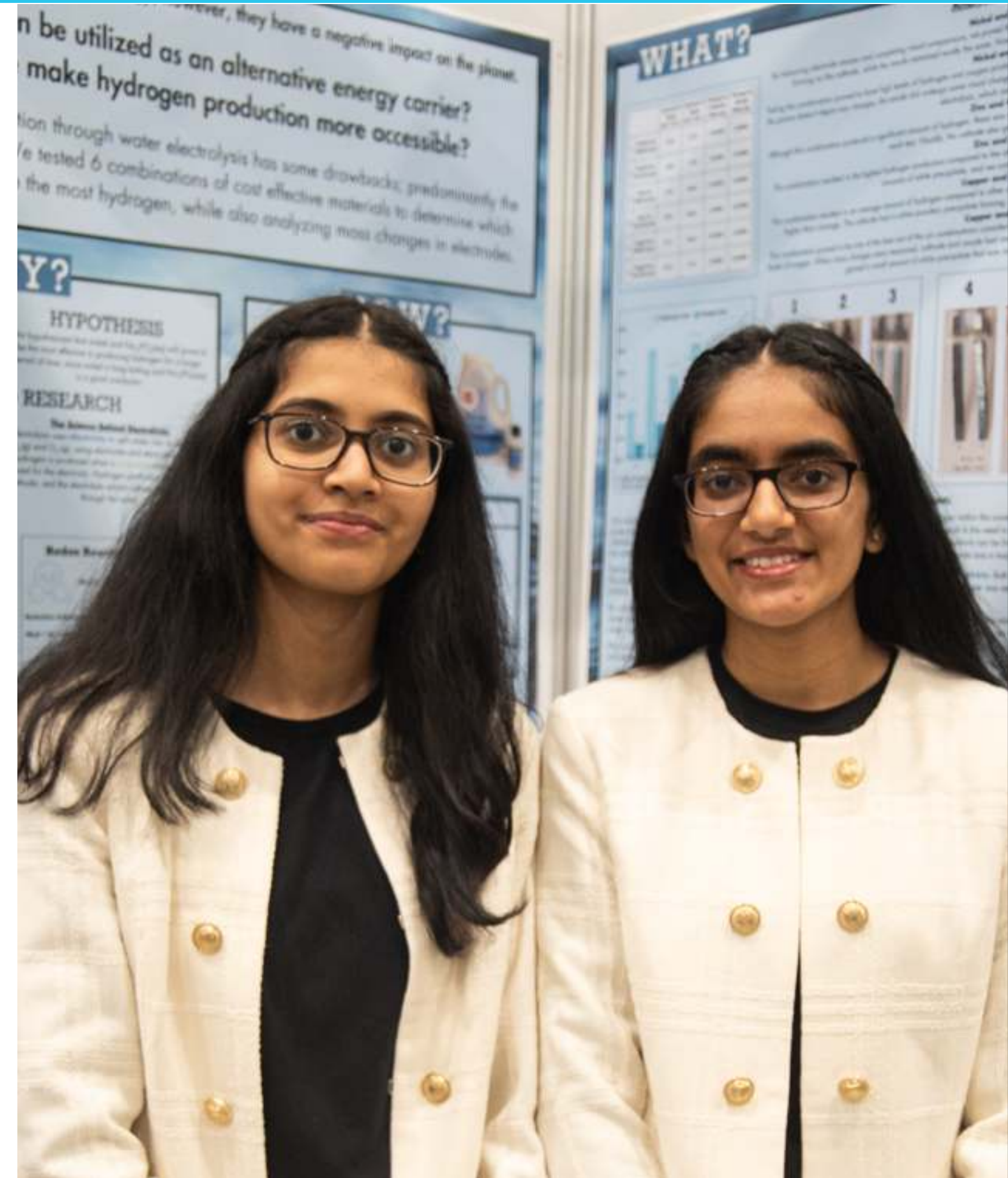
**Prix d'excellence - bronze**

Senior / Sénior

**Tanya Jivani**  
**Lalithya Raavi**

**Fuelling the Future: Investigating Cost Efficient Methods of Hydrogen Production**

Wood Buffalo – Alberta







**Excellence Award - Bronze**  
**Prix d'excellence - bronze**

Senior / Sénior

# Khaleel Khaki Mohammadmahdi Shahhaidari

**AutoShield 2.0: The Dual-Defense System For All Vehicles**

York - Ontario







**Excellence Award - Bronze**

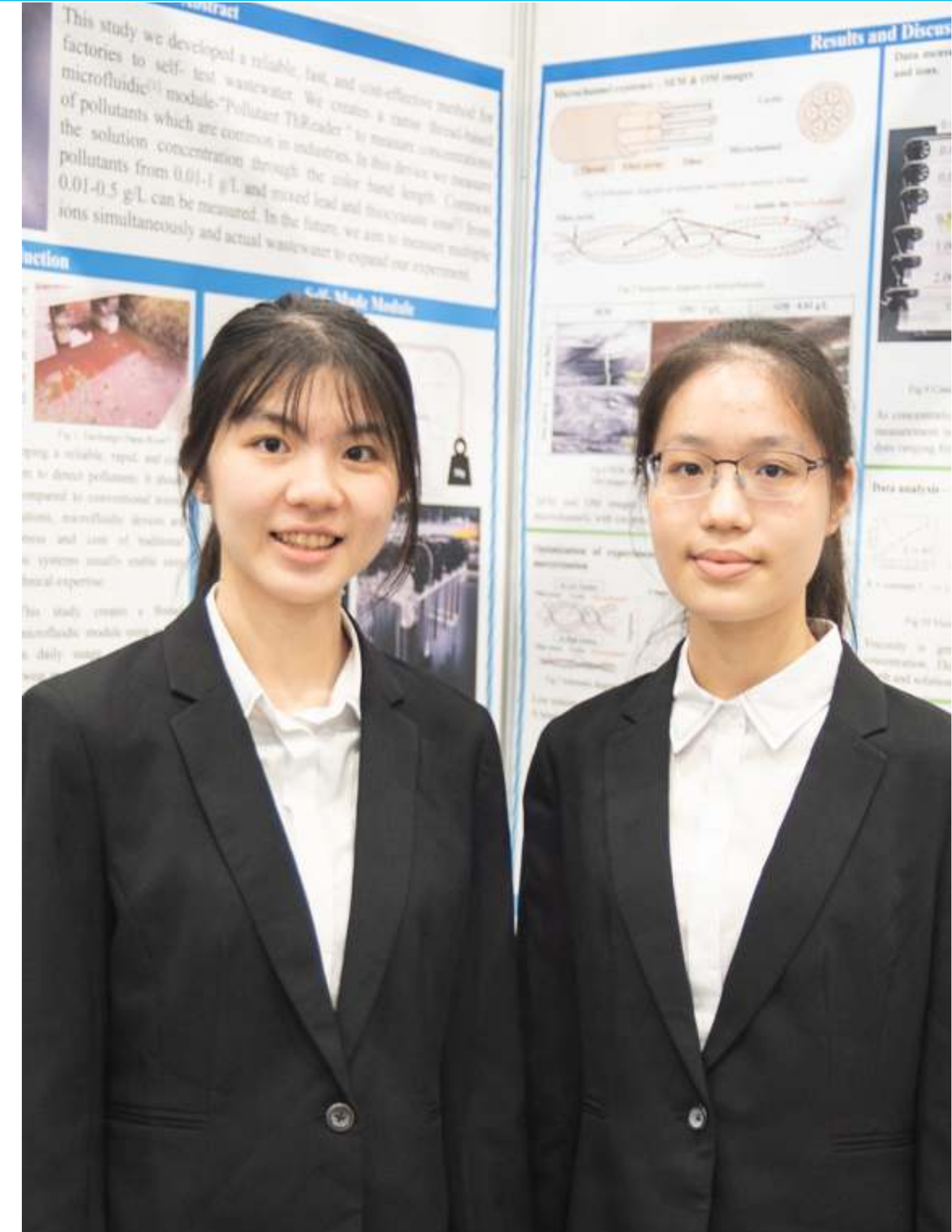
**Prix d'excellence - bronze**

Senior / Sénior

**Chia Yi Lee**  
**Pei Jung Sung**

**Pollutant ThReader: Ramie Thread-based Microfluidic Reader of Common Pollutant Concentration**

Taiwan, R.O.C.







**Excellence Award - Bronze**

**Prix d'excellence - bronze**

Senior / Sénior

## Richard Lee

**Is Bigger Better?**

Vancouver Island - British Columbia



Youth Science Canada  
Sciences jeunesse Canada







**Excellence Award - Bronze**

**Prix d'excellence - bronze**

Senior / Sénior

## Jonathan Leung

**Comparing Spider Diversity between 2 Farming Communities & Assessing Alpha, Beta & Gamma Diversities**

Greater Vancouver – British Columbia







**Excellence Award - Bronze**

**Prix d'excellence - bronze**

Senior / Sénior

## **Karys Littlejohns**

**Investigating trace drug prevalence in public recreational spaces using ion mobility spectrometry**

Simcoe County – Ontario







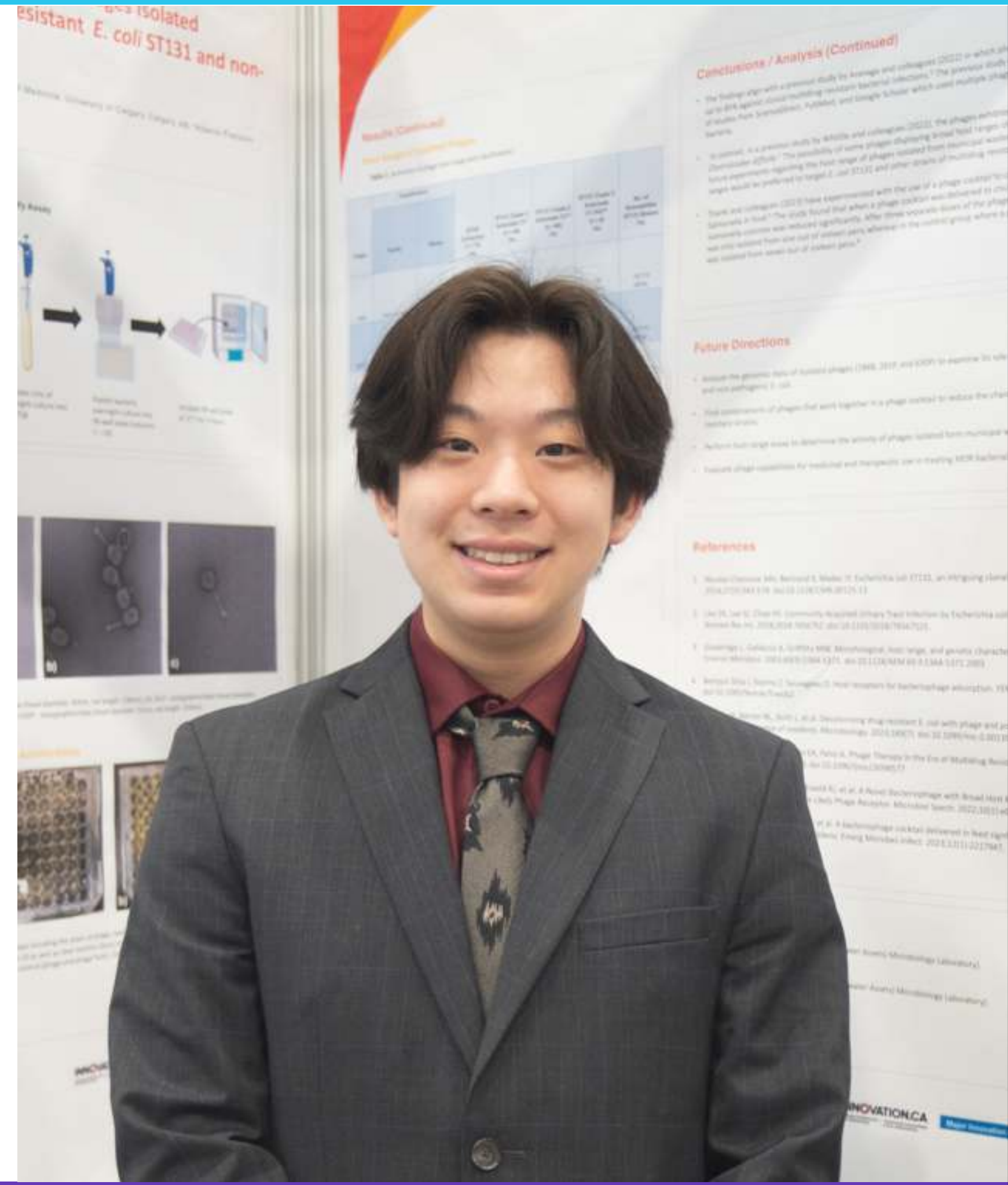
**Excellence Award - Bronze**  
**Prix d'excellence - bronze**

Senior / Sénior

**Vincent Liu**

**Can Bacteriophages Isolated from Municipal Wastewater Lyse Multi-drug Resistant E. coli ST131**

Calgary Youth - Alberta







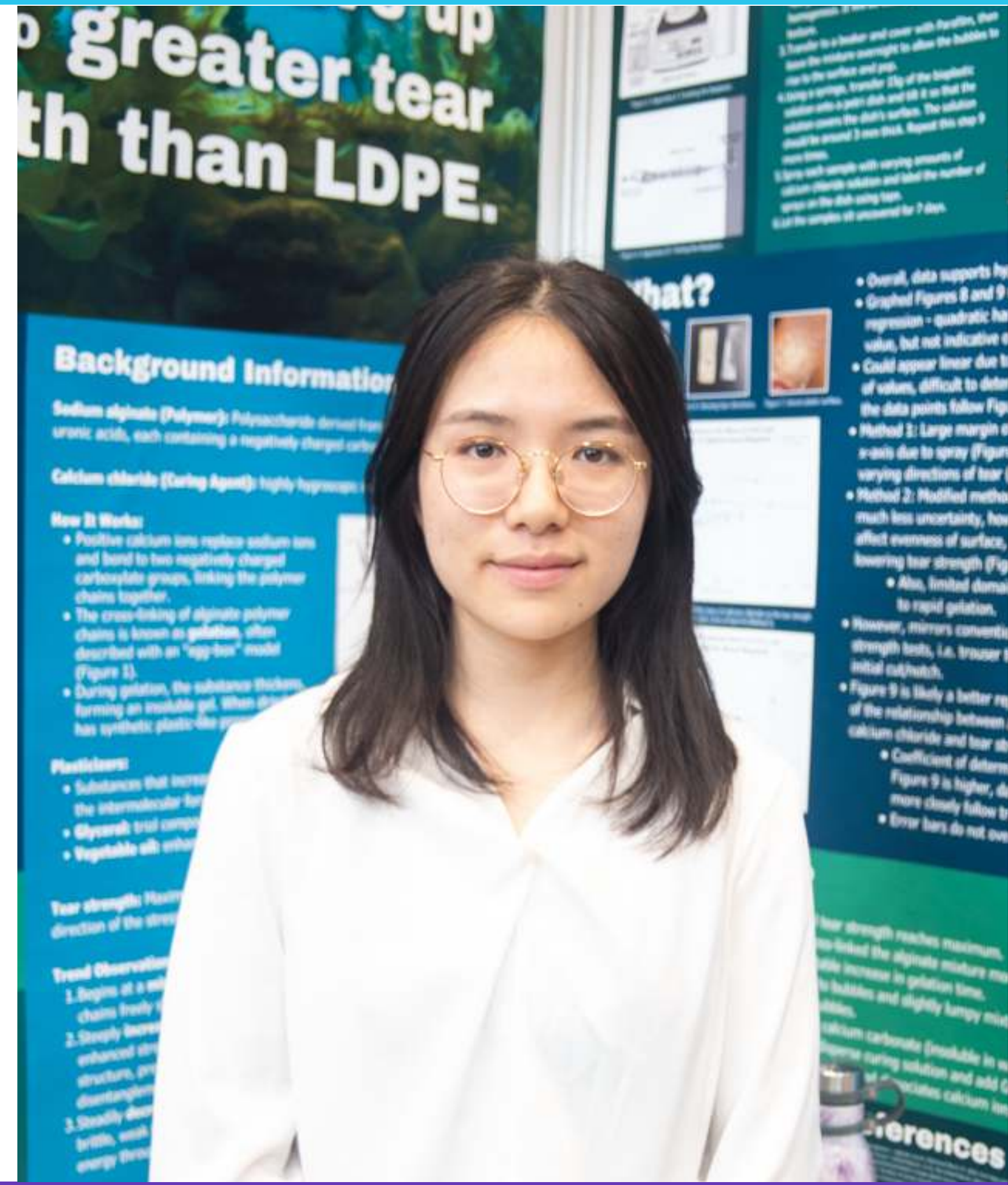
**Excellence Award - Bronze**  
**Prix d'excellence - bronze**

Senior / Sénior

**Jialin Luo**

**Bioplastics: The Strength of Calcium Alginate**

Frontenac, Lennox & Addington – Ontario







**Excellence Award - Bronze**  
**Prix d'excellence - bronze**

Senior / Sénior

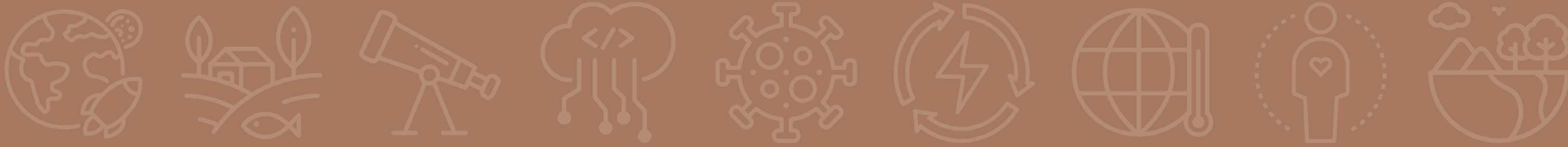
# Mapalo Mushoriwa

**The Effect of Climate Conditions and Cadmium Uptake in Wheat**

Saskatchewan Chinook – Saskatchewan







**Excellence Award - Bronze**  
**Prix d'excellence - bronze**

Senior / Sénior

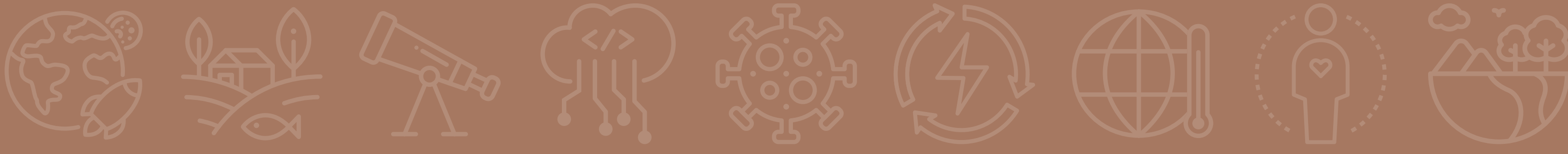
## Hadiya Omer

**Examining Apical Area Dynamics in Distal Cell Development: Drosophila Model Approach**

Winnipeg Schools – Manitoba







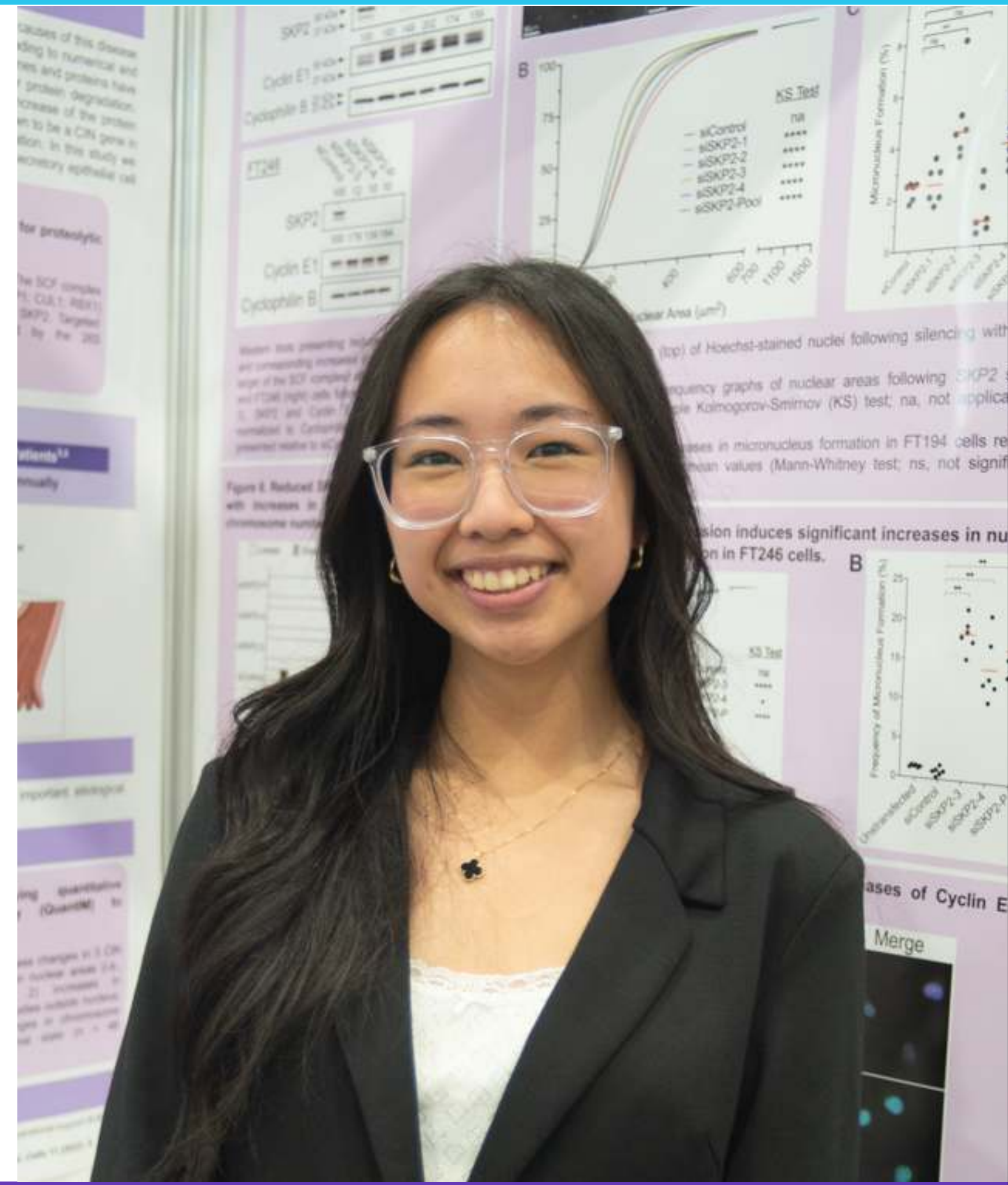
**Excellence Award - Bronze**  
**Prix d'excellence - bronze**

Senior / Sénior

# Stephanie Palma

**Loss of SKP2 Induces Chromosome Instability in Tubo-Ovarian Context**

Manitoba Schools Science Symposium – Manitoba







**Excellence Award - Bronze**

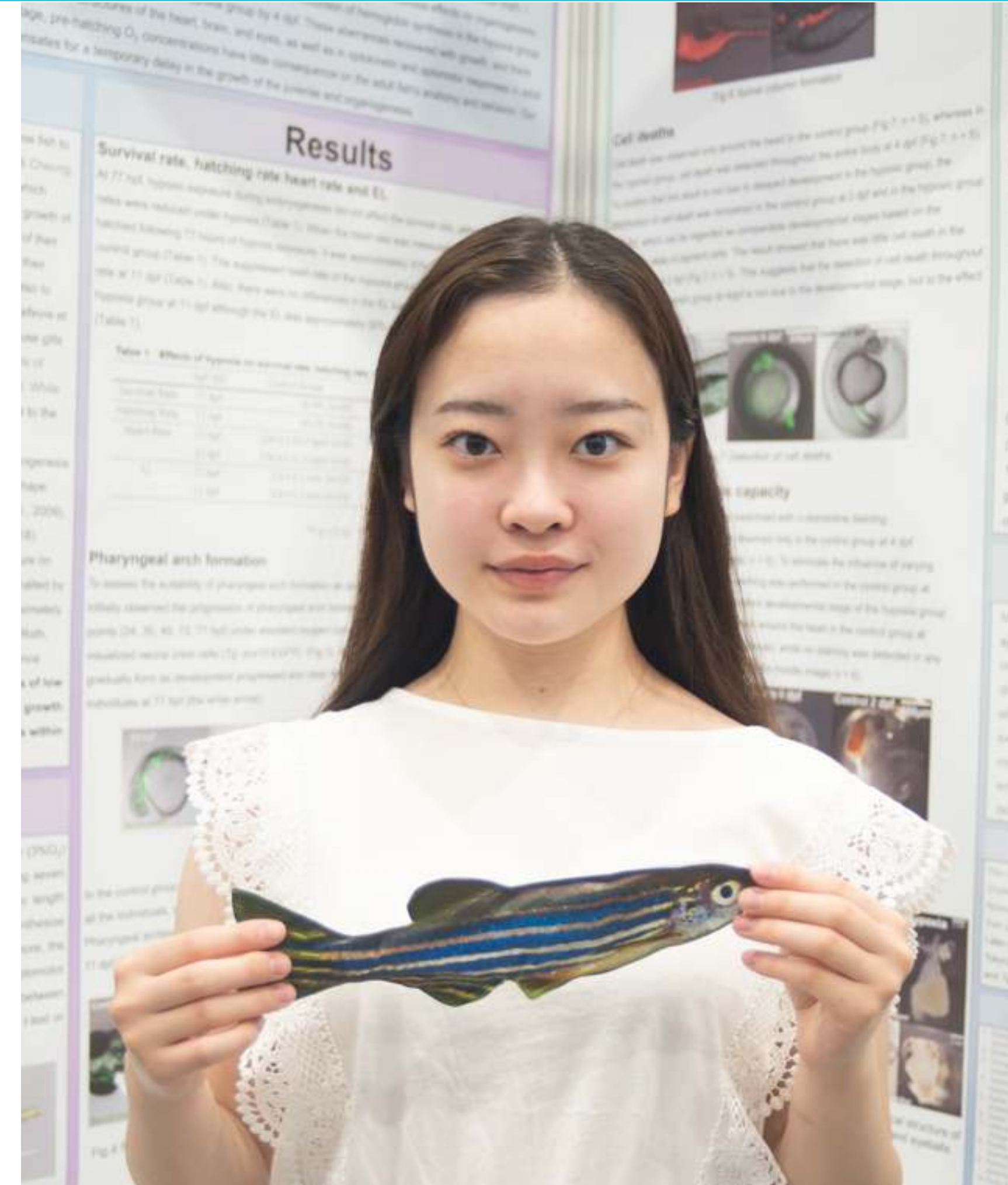
**Prix d'excellence - bronze**

Senior / Sénior

# Saeko Sakuraba

**Effects of low oxygen conditions during embryogenesis on growth in zebrafish**

Ottawa - Ontario







**Excellence Award - Bronze**

**Prix d'excellence - bronze**

Senior / Sénior

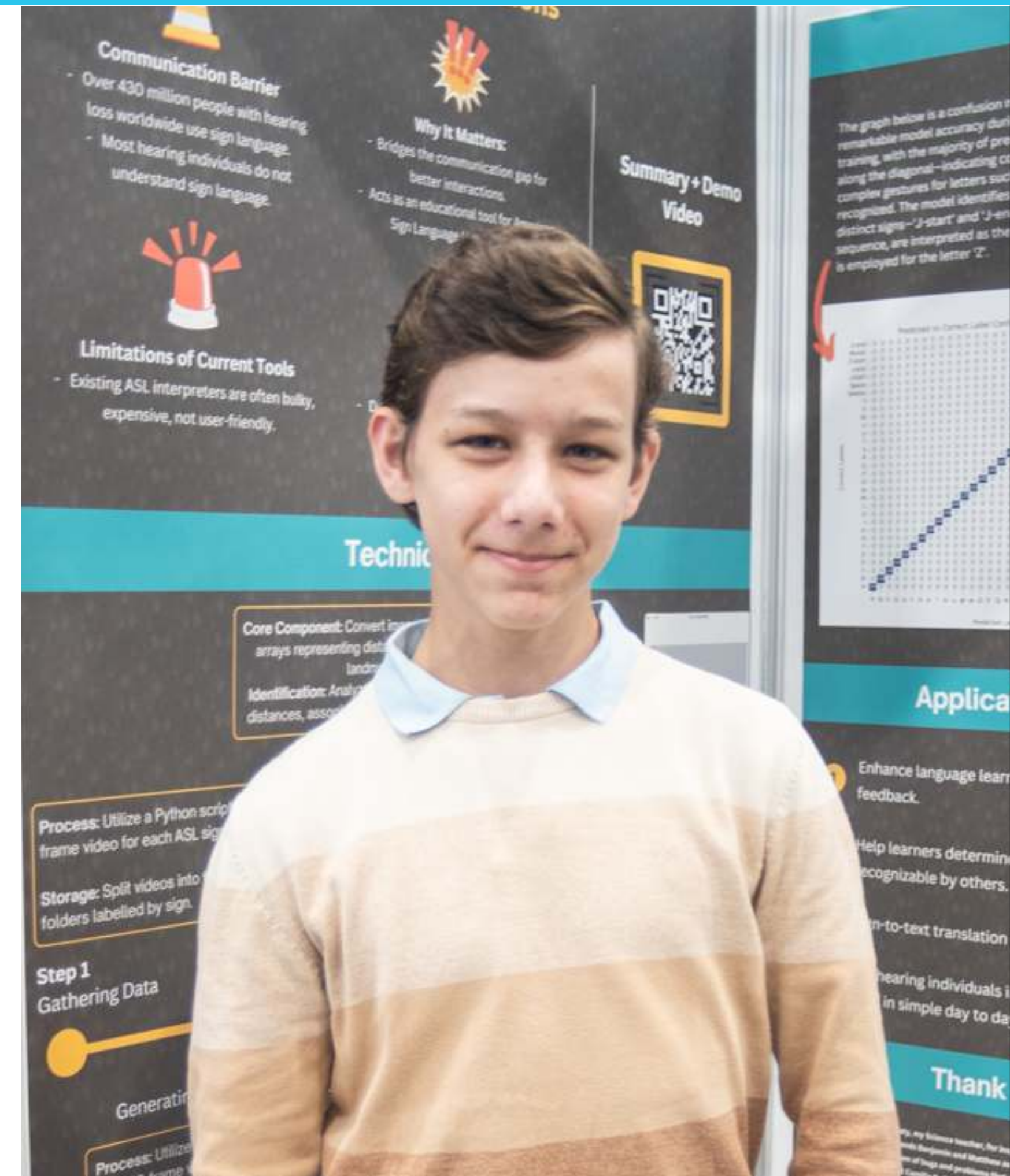
## Stoyan Sendov

**Real-time American Sign Language Alphabet Interpreter**

Thames Valley – Ontario



Youth Science Canada  
Sciences jeunesse Canada







**Excellence Award - Bronze**

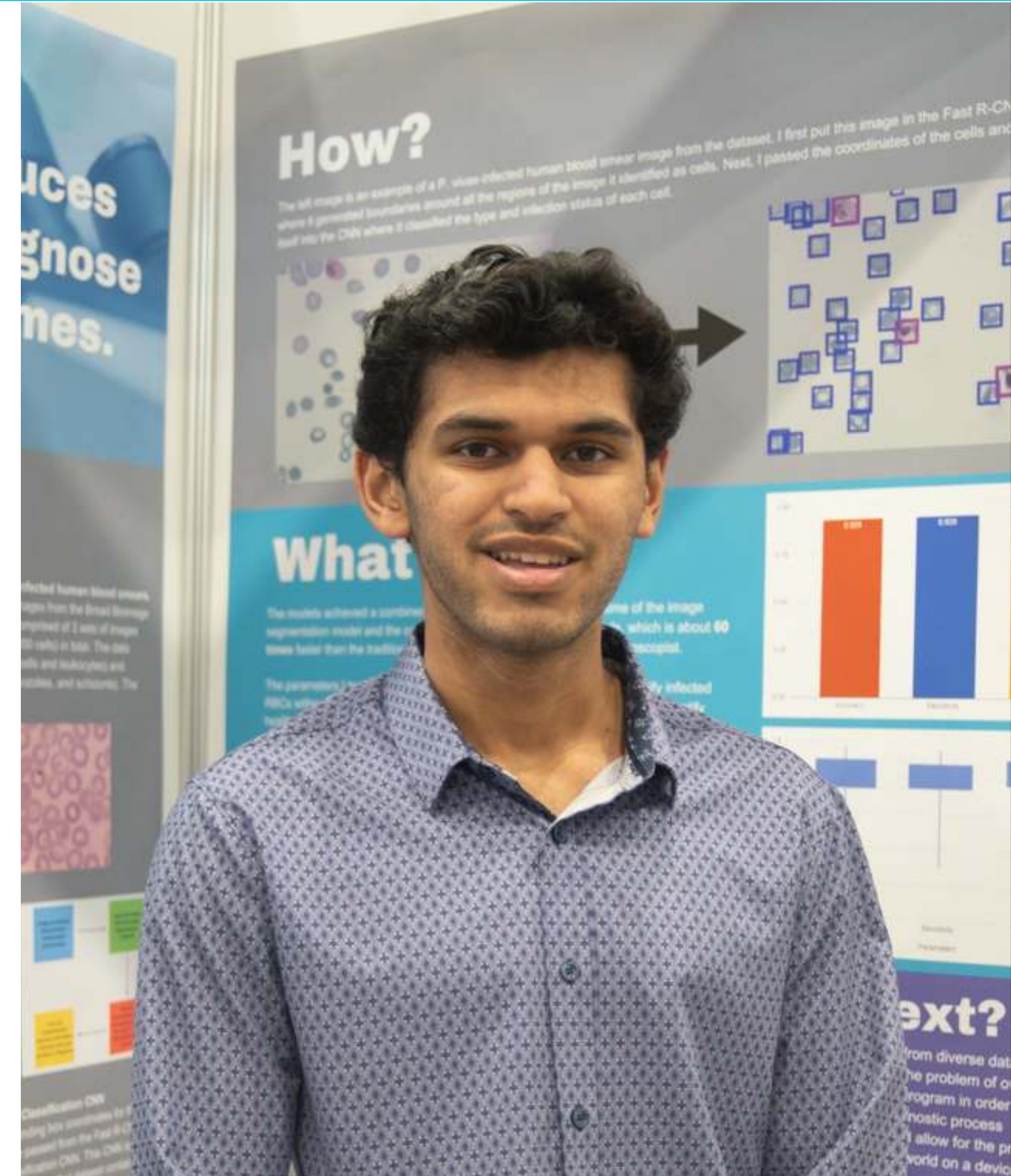
**Prix d'excellence - bronze**

Senior / Sénior

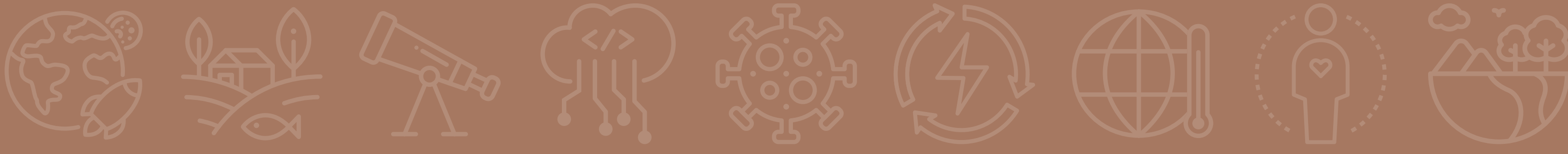
## Parth Sheth

**From Pixels to Diagnosis: Neural Network-Based Malaria Detection**

Calgary Youth – Alberta





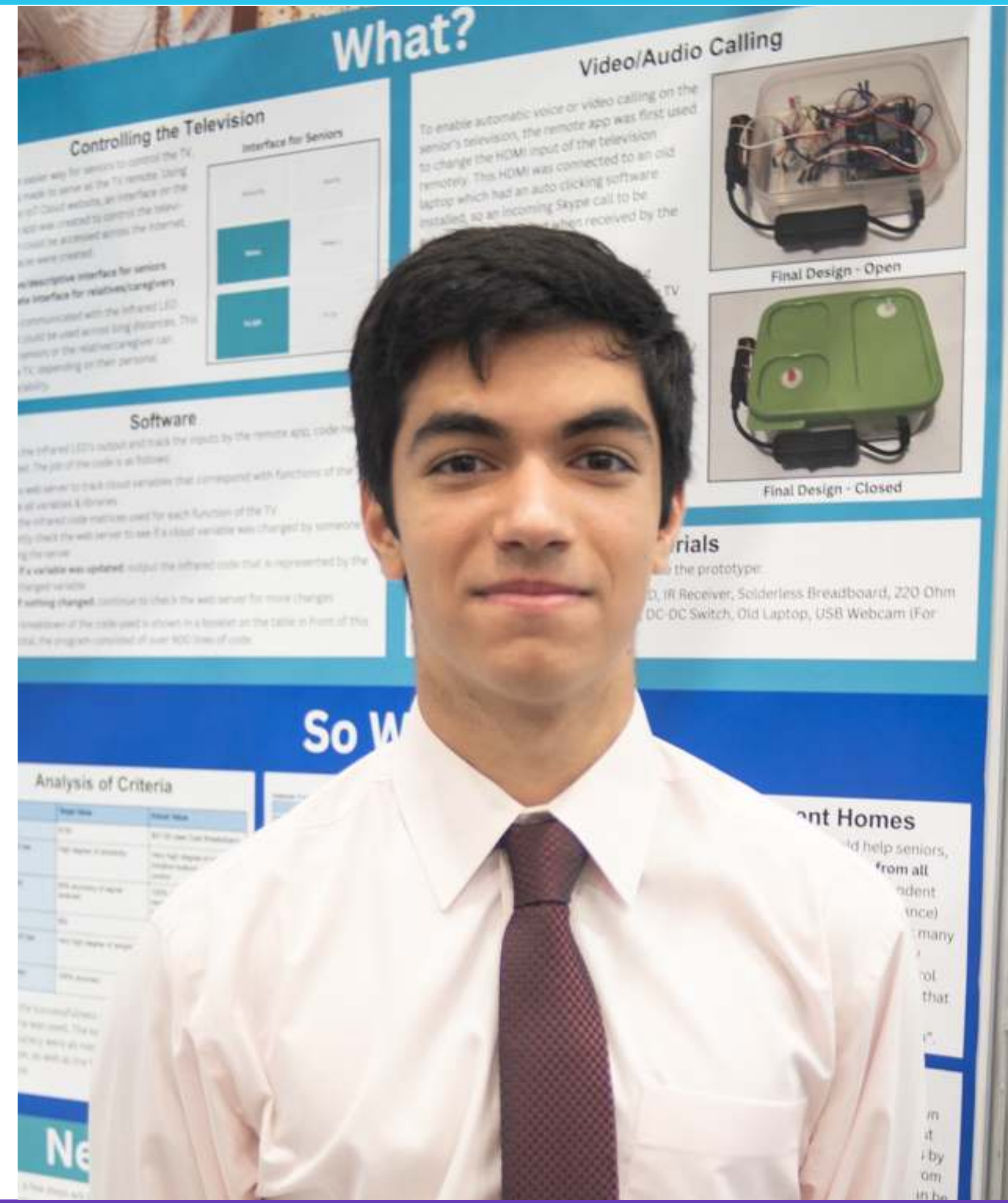


**Excellence Award - Bronze**  
**Prix d'excellence - bronze**  
Senior / Sénior

# Cyrus Shobeir

**A Smarter TV: Promoting Independent Living for Seniors Using Technology**

Simcoe County – Ontario







**Excellence Award - Bronze**

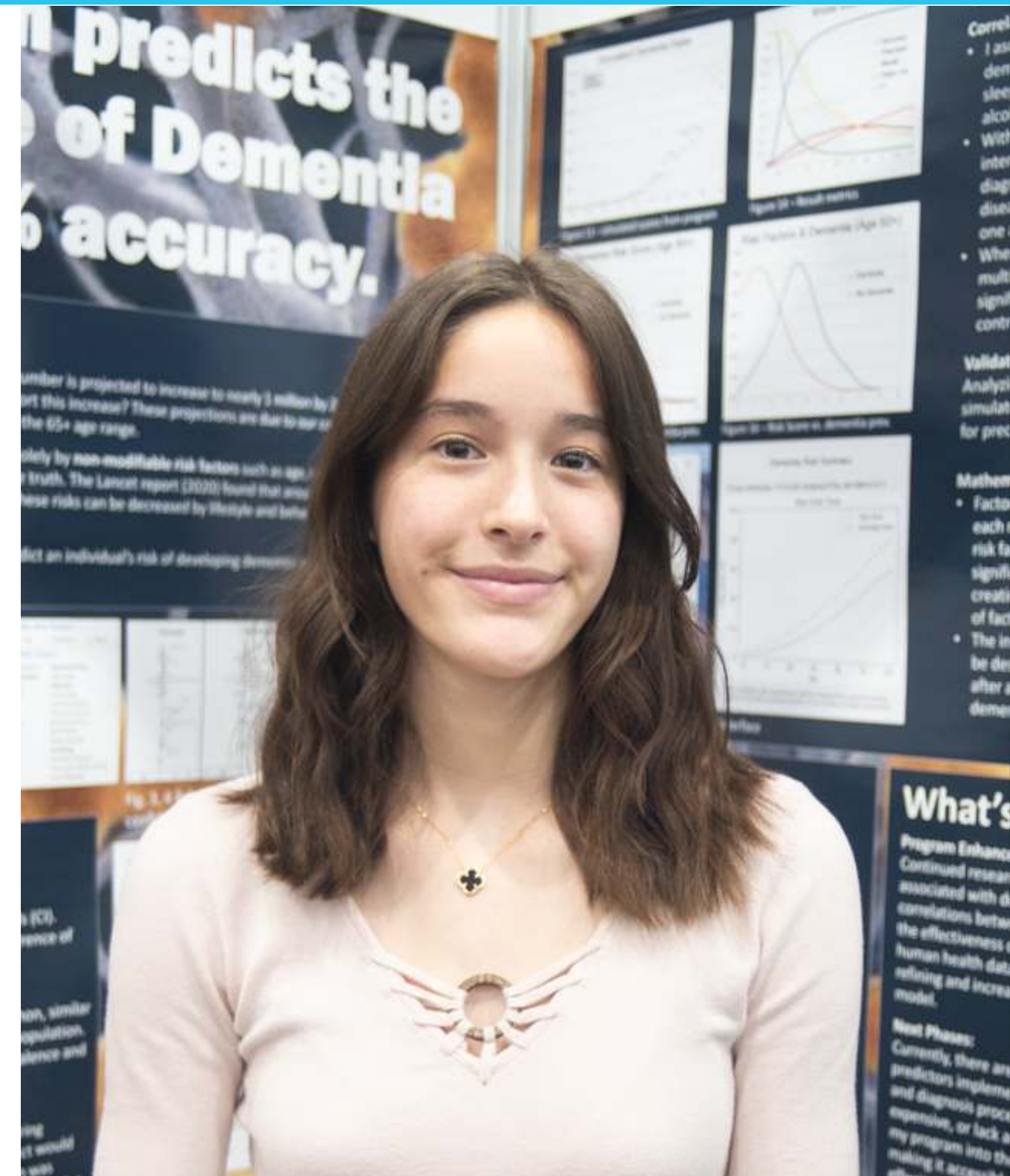
**Prix d'excellence - bronze**

Senior / Sénior

## Ella Strachan

**Dementia - Calculating Your Risk**

Winnipeg Schools – Manitoba







**Excellence Award - Bronze**

**Prix d'excellence - bronze**

Senior / Sénior

## Alexia Tomasello

**Biomimétisme à la rescousse des océans, une filtration innovante inspirée du requin-pilierin**

Districts francophones du N.-B. – New Brunswick





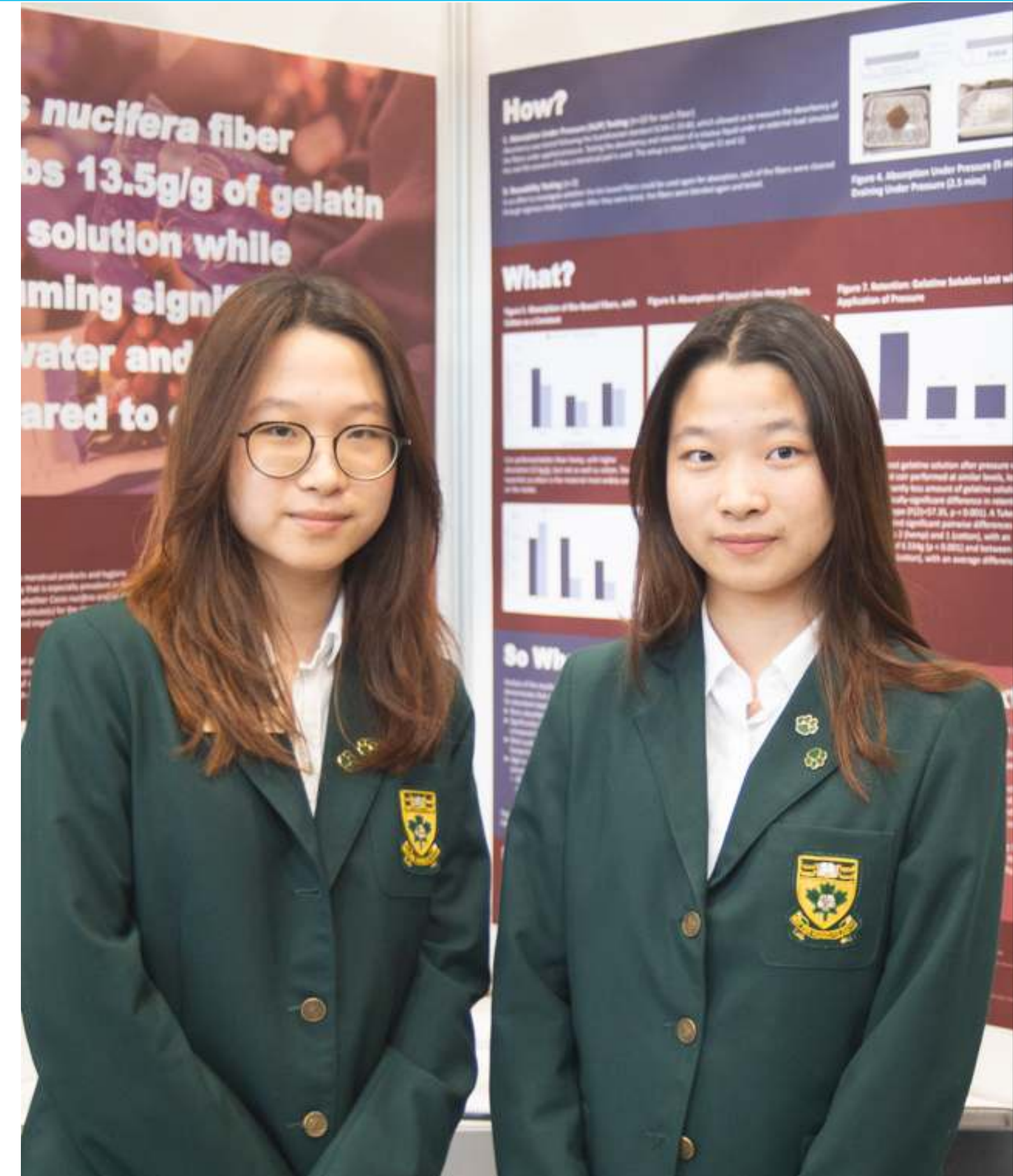


**Excellence Award - Bronze**  
**Prix d'excellence - bronze**  
Senior / Sénior

**Clare Wang**  
**Bella Wang**

**A Substitute for Absorbent Layers in Menstrual Pads: Cocos Nucifera & Cannabis sativa L. Fiber**

Greater Vancouver – British Columbia







**Excellence Award - Bronze**

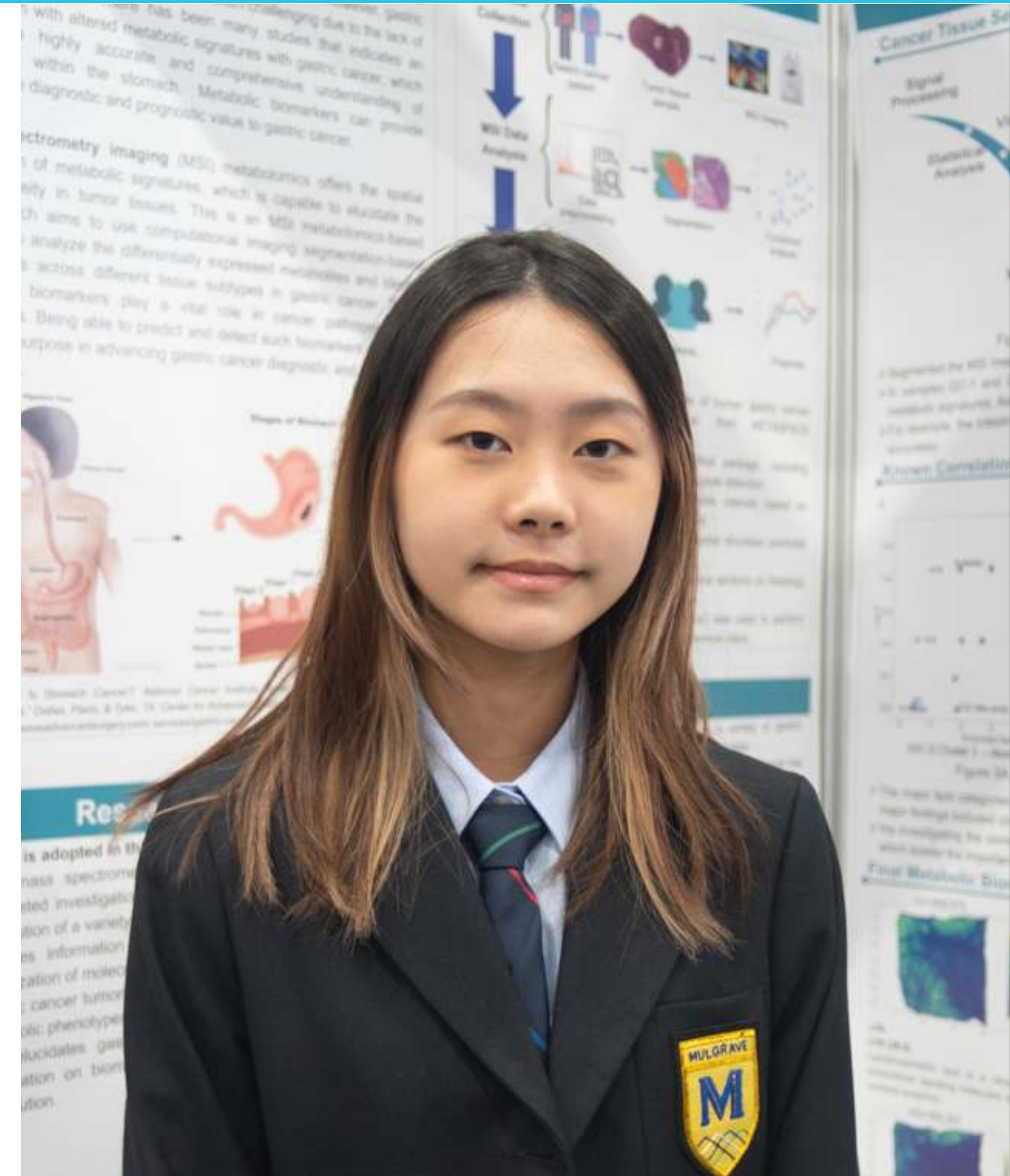
**Prix d'excellence - bronze**

Senior / Sénior

## Flora Wang

**Mass Spectrometry Imaging Metabolomics Reveals the Metabolic Spatial Heterogeneity in Gastric Cancer**

Greater Vancouver – British Columbia







**Excellence Award - Bronze**

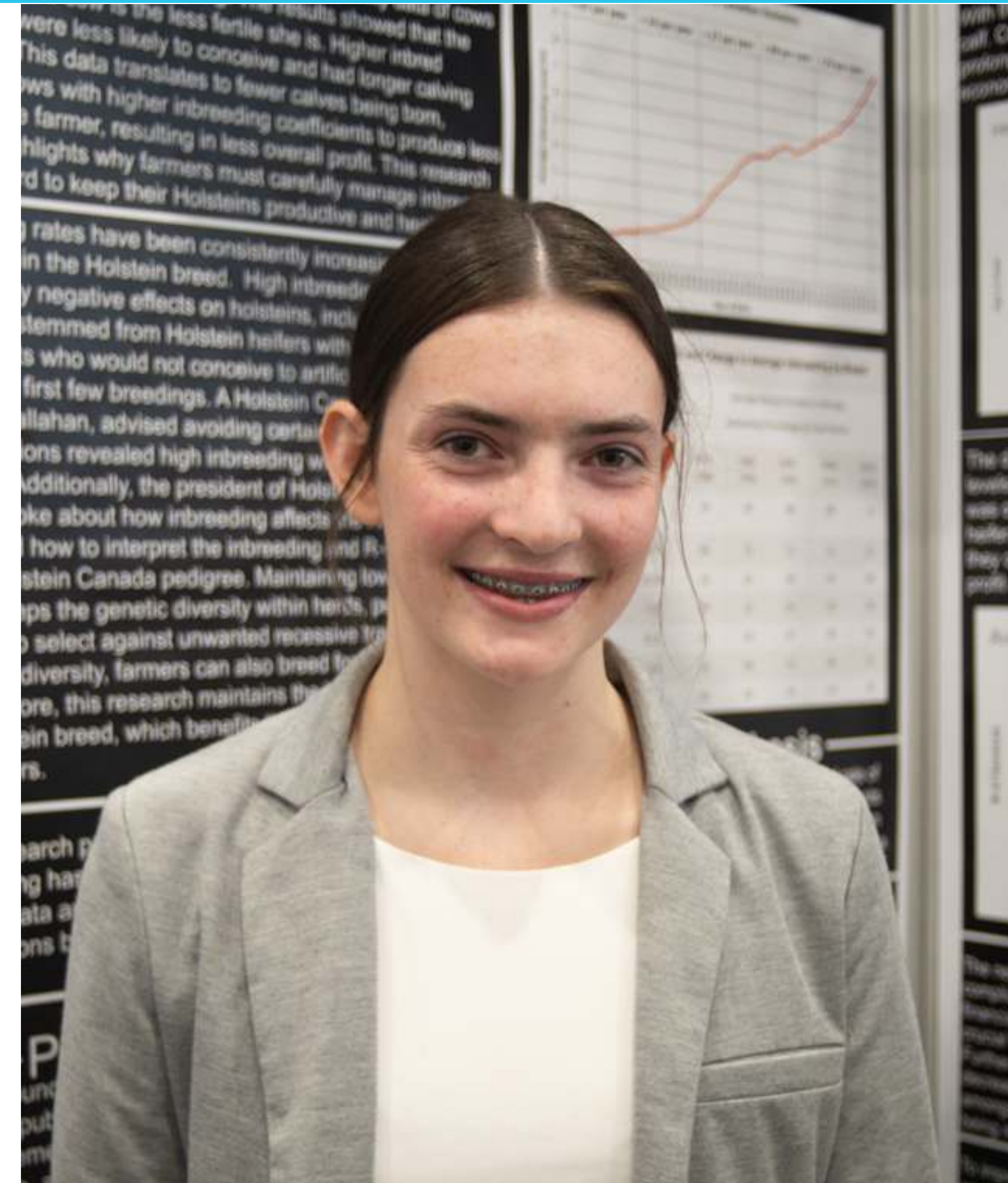
**Prix d'excellence - bronze**

Senior / Sénior

## Charlotte Woodhouse

**Dairy Dilemma: The Fertility Fallout of Inbreeding in Holsteins**

Bluewater – Ontario







Excellence Award - Bronze

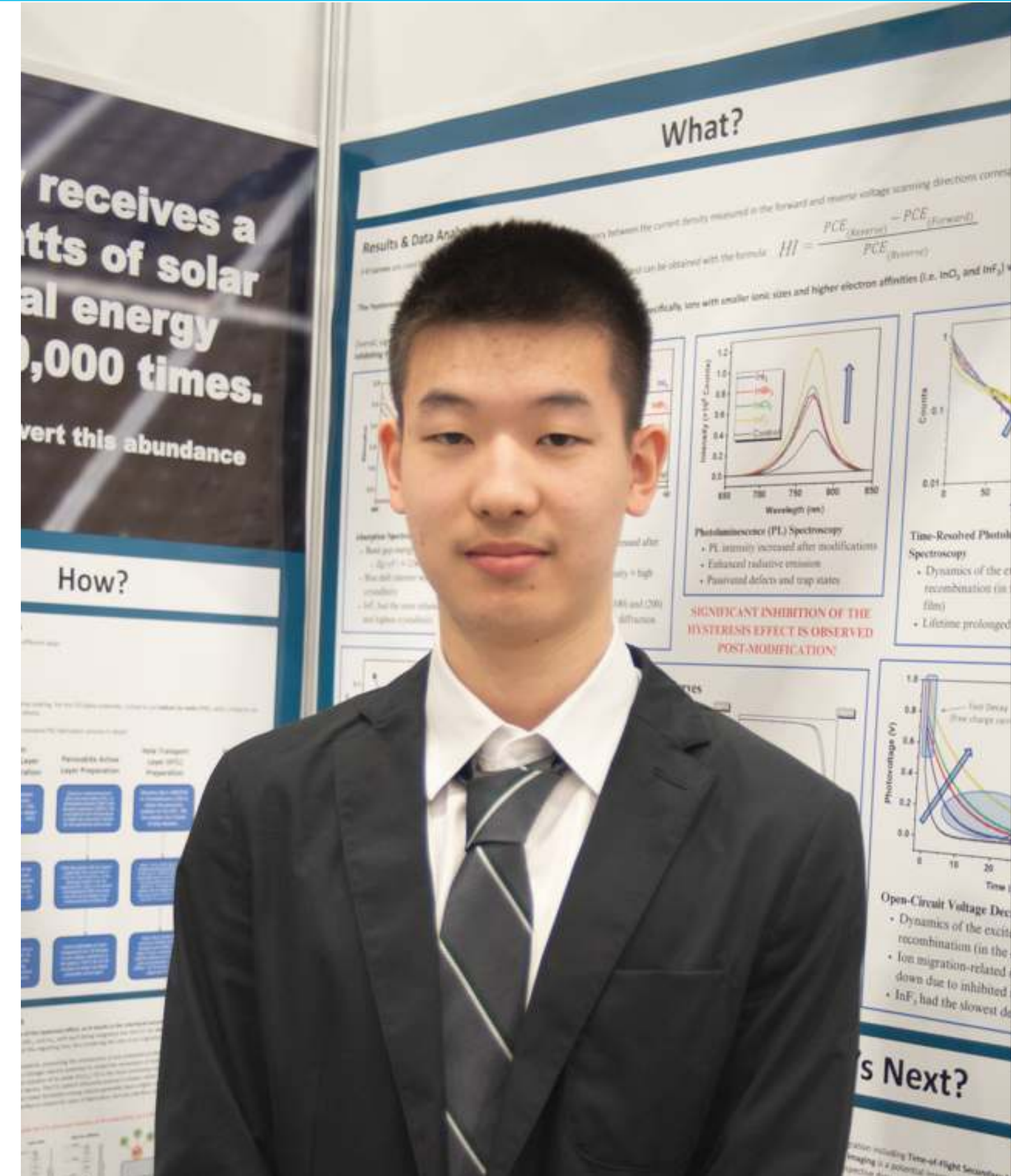
Prix d'excellence - bronze

Senior / Sénior

**Victor Xu**

Hysteresis Inhibition for Performance Improvement via Halide Engineering in Perovskite Solar Cells

Toronto - Ontario







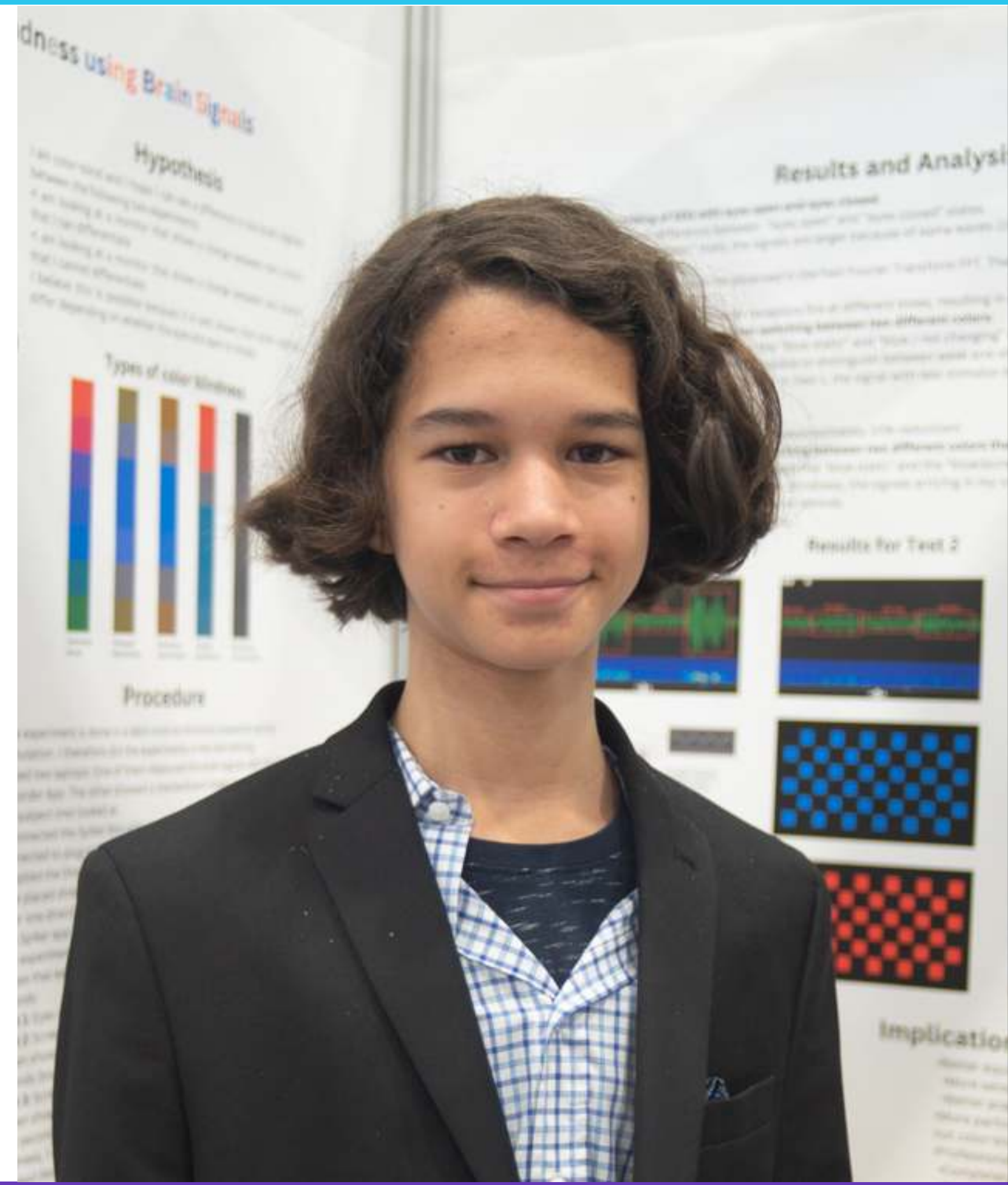
**Excellence Award - Silver**  
**Prix d'excellence - argent**

Junior

# Yohann Abraham-Erhart

**Detecting Color-Blindness using Brain Signals**

Réseau Technoscience – Québec







**Excellence Award - Silver**  
**Prix d'excellence - argent**

Junior

# Ananth Arunkumar

**RipeNet: Using Machine Learning to Help the Colourblind**

Waterloo-Wellington - Ontario







**Excellence Award - Silver**  
**Prix d'excellence - argent**

Junior

# Anne Bowman

**The Battle for Our Lakes: Phosphorus vs. Activated Charcoal**

Simcoe County - Ontario







**Excellence Award - Silver**  
**Prix d'excellence - argent**

Junior

**Emmersyn da Mata**  
**Hailee Marshall**

**Weighting On Your Menstrual Cycle**

Frontier Schools – Manitoba







**Excellence Award - Silver**  
**Prix d'excellence - argent**  
Junior

**Isaac Di Cresce**

**Asparagus Pee Genetically**

Winnipeg Schools – Manitoba







**Excellence Award - Silver  
Prix d'excellence - argent**

Junior

**Riley Edmunds**

**Breaking The Ice: Measuring the Environmental Impacts of Road Ice Removal Substances**

Lambton County - Ontario







**Excellence Award - Silver**  
**Prix d'excellence - argent**  
Junior

## Justin Guo

**Plastic degradation through a novel Thermal Electro-Fenton System**

Greater Vancouver – British Columbia







**Excellence Award - Silver**  
**Prix d'excellence - argent**  
Junior

# Lilou Lefebvre Olive Passmore

**Faro Mine Disaster**  
Yukon Stikine – Yukon







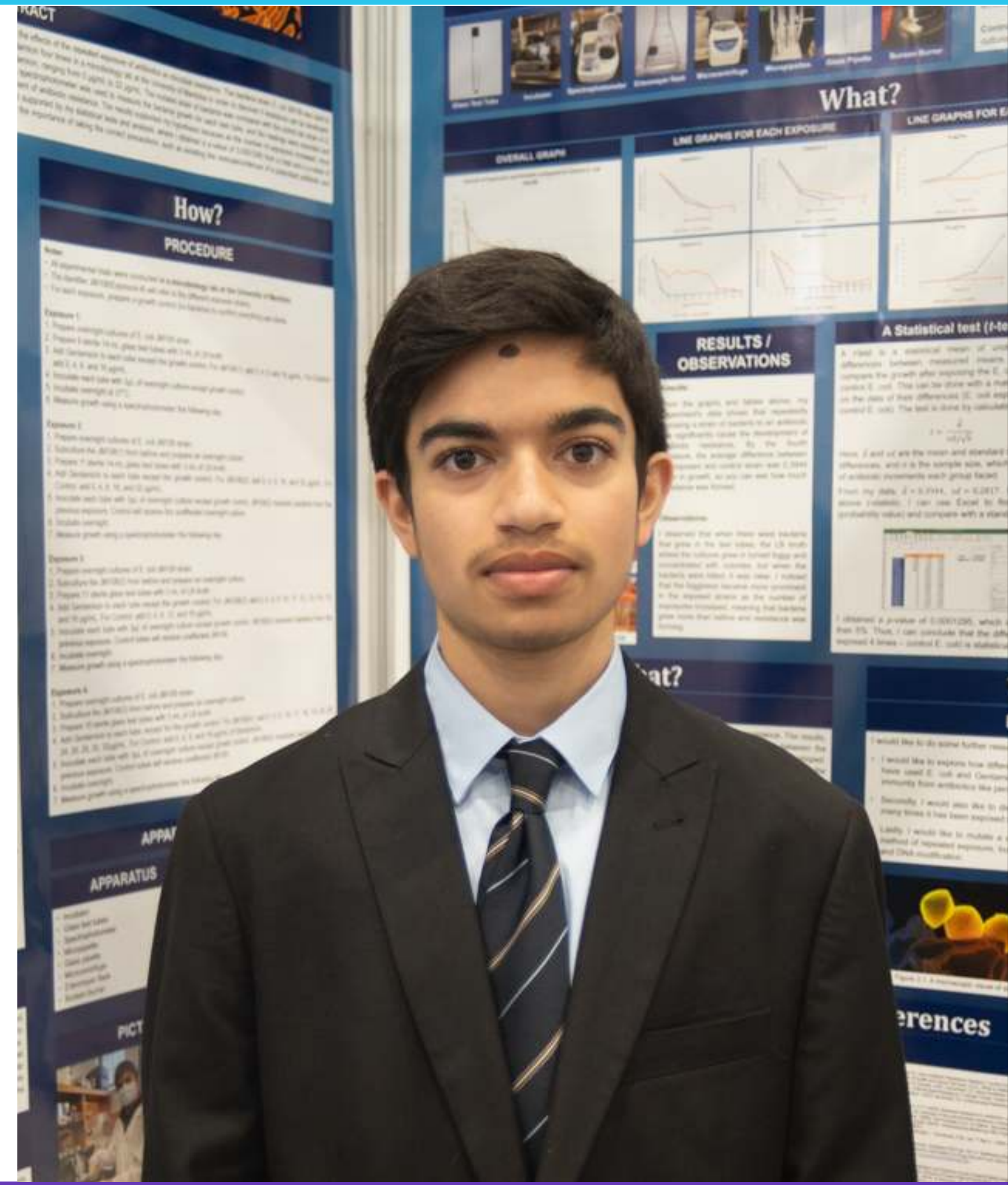
**Excellence Award - Silver**  
**Prix d'excellence - argent**

Junior

# Sourav Mandal

**The Effects of the Repeated Exposure of Antibiotics on Microbial Resistance**

Manitoba Schools Science Symposium – Manitoba







**Excellence Award - Silver**  
**Prix d'excellence - argent**

Junior

**Ariel Mason**  
**Ella McFarland**

**Optimizing Crop Growth with Agrivoltaics**

Calgary Youth - Alberta







**Excellence Award - Silver**  
**Prix d'excellence - argent**  
Junior

## Emily Mineault

**Can teachers differentiate AI writing from student writing?**

Northern British Columbia – British Columbia





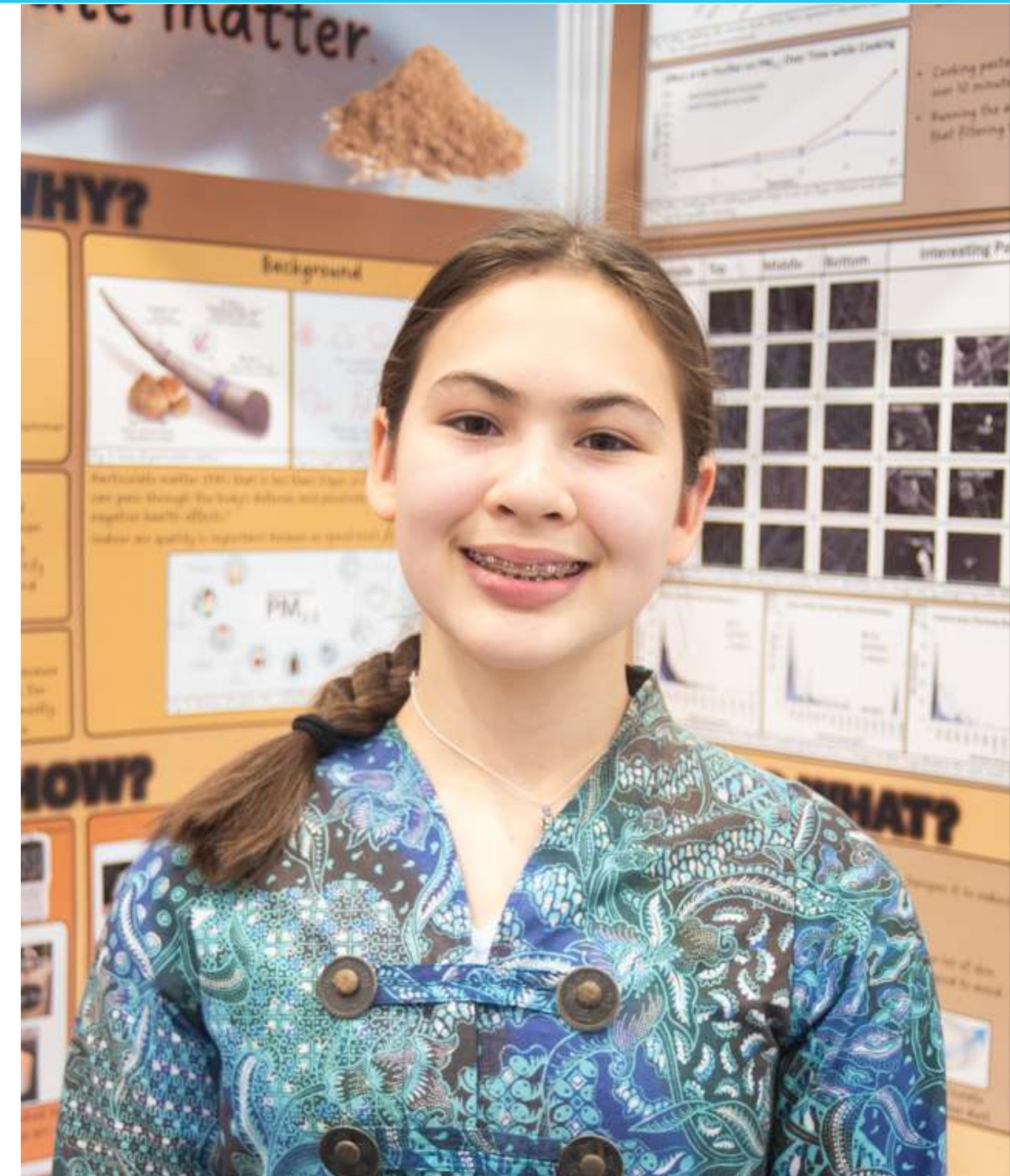


**Excellence Award - Silver**  
**Prix d'excellence - argent**  
Junior

## Emma Murimboh

**Dangerous Dust?**

Annapolis Valley – Nova Scotia







**Excellence Award - Silver**  
**Prix d'excellence - argent**  
Junior

## Amelia Pletsch

**Life on Mars: Germinating Edible Plants in Mars Regolith**

Waterloo-Wellington – Ontario







**Excellence Award - Silver**  
**Prix d'excellence - argent**

Junior

**Daniyal Qazi**  
**Zayn Qazi**

**From Pixels to Predictions: A Deep Learning Method to Detect Pneumonia in Chest X-Ray Images**

Bay Area - Ontario







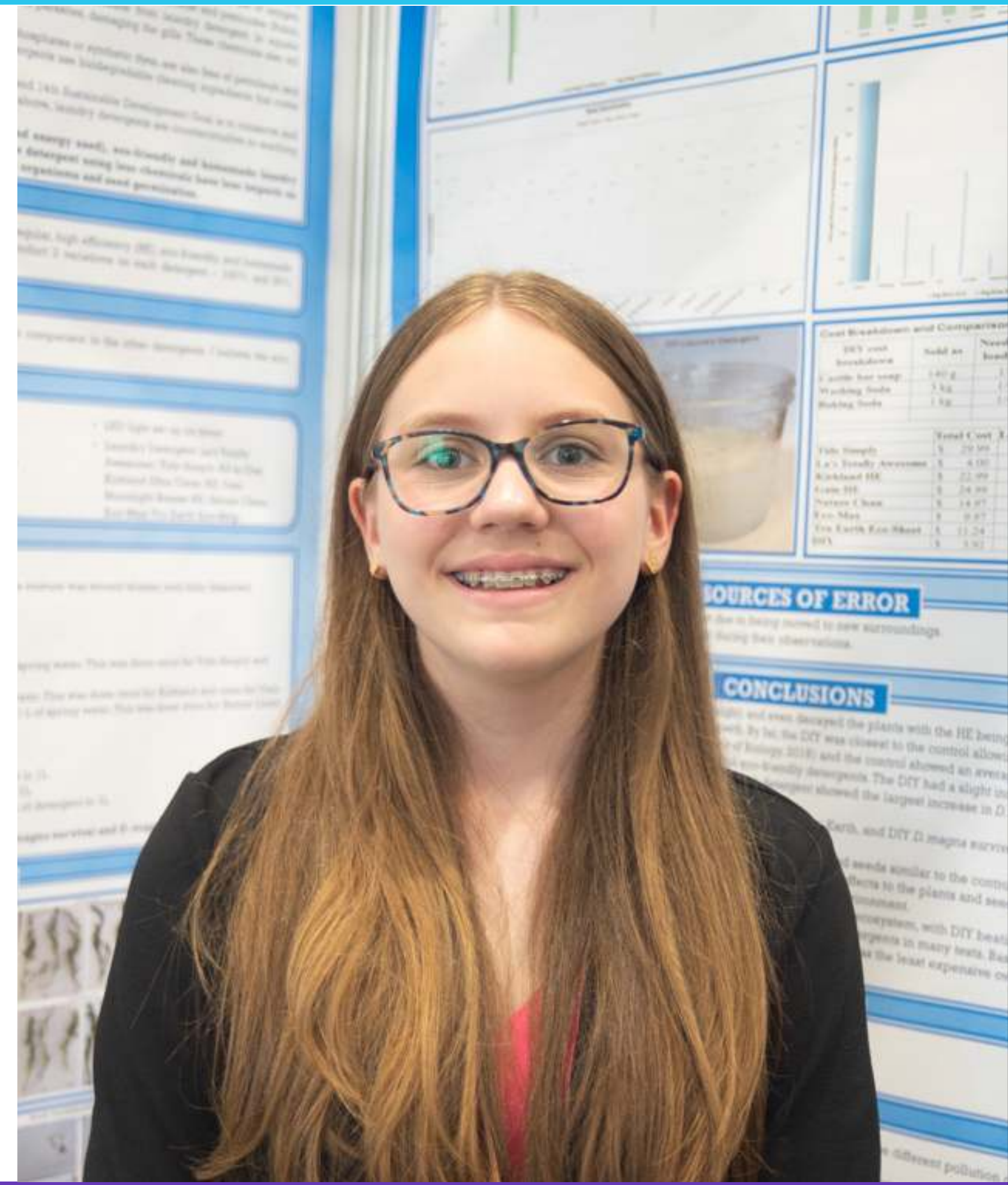
**Excellence Award - Silver**  
**Prix d'excellence - argent**

Junior

**Cyndi Rayson**

**Washing Away The Environment: An Environmental Analysis on Laundry Detergent**

Lambton County - Ontario







**Excellence Award - Silver  
Prix d'excellence - argent**

Junior

**Annika Saini**

**Outdoor respiratory protection “pod” equipped with Stationary & Mobile powered-air purifiers**

Calgary Youth – Alberta





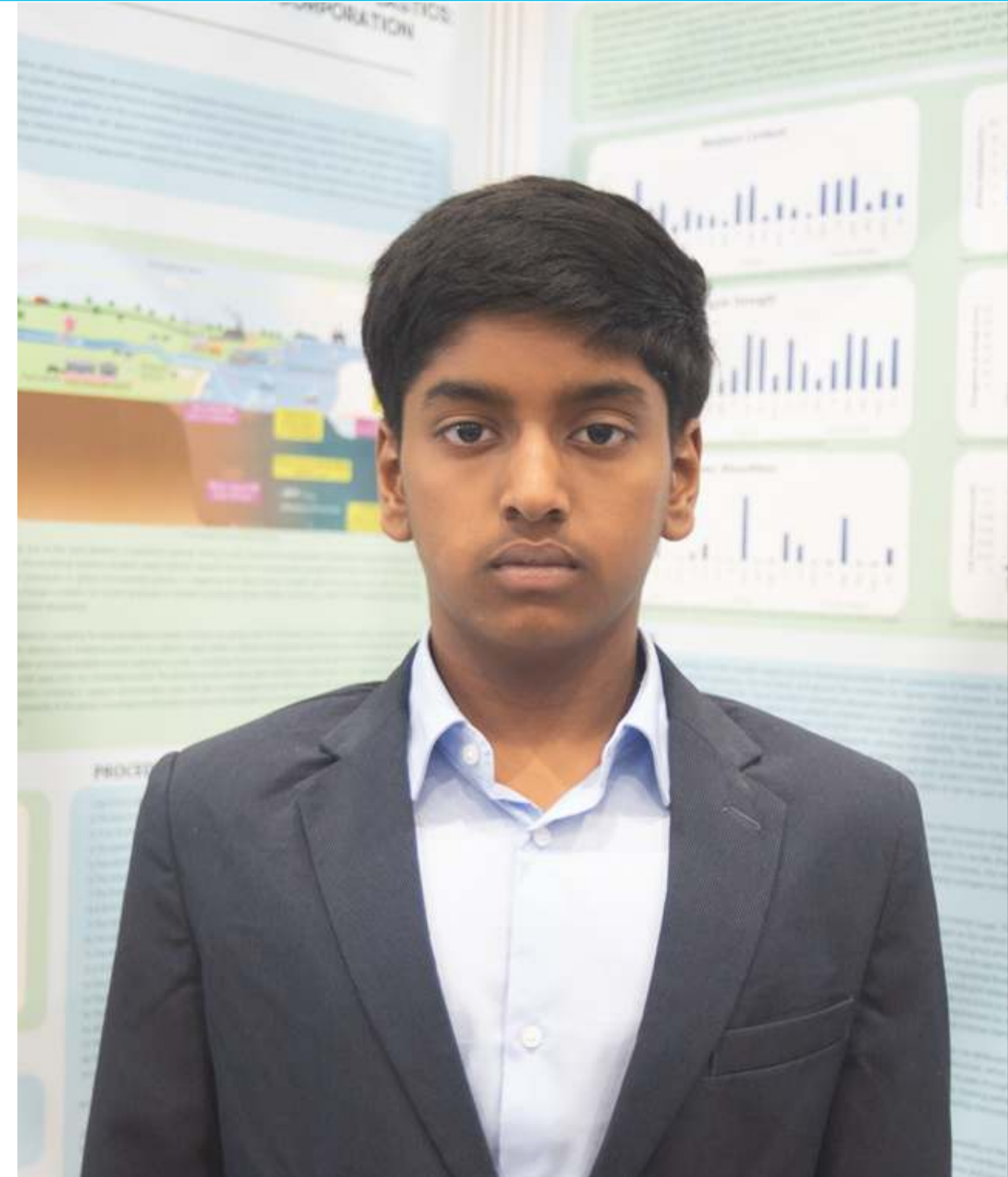


**Excellence Award - Silver**  
**Prix d'excellence - argent**  
Junior

## **Madhav Saravanan**

**Fantastic Bioplastics**

Peel - Ontario







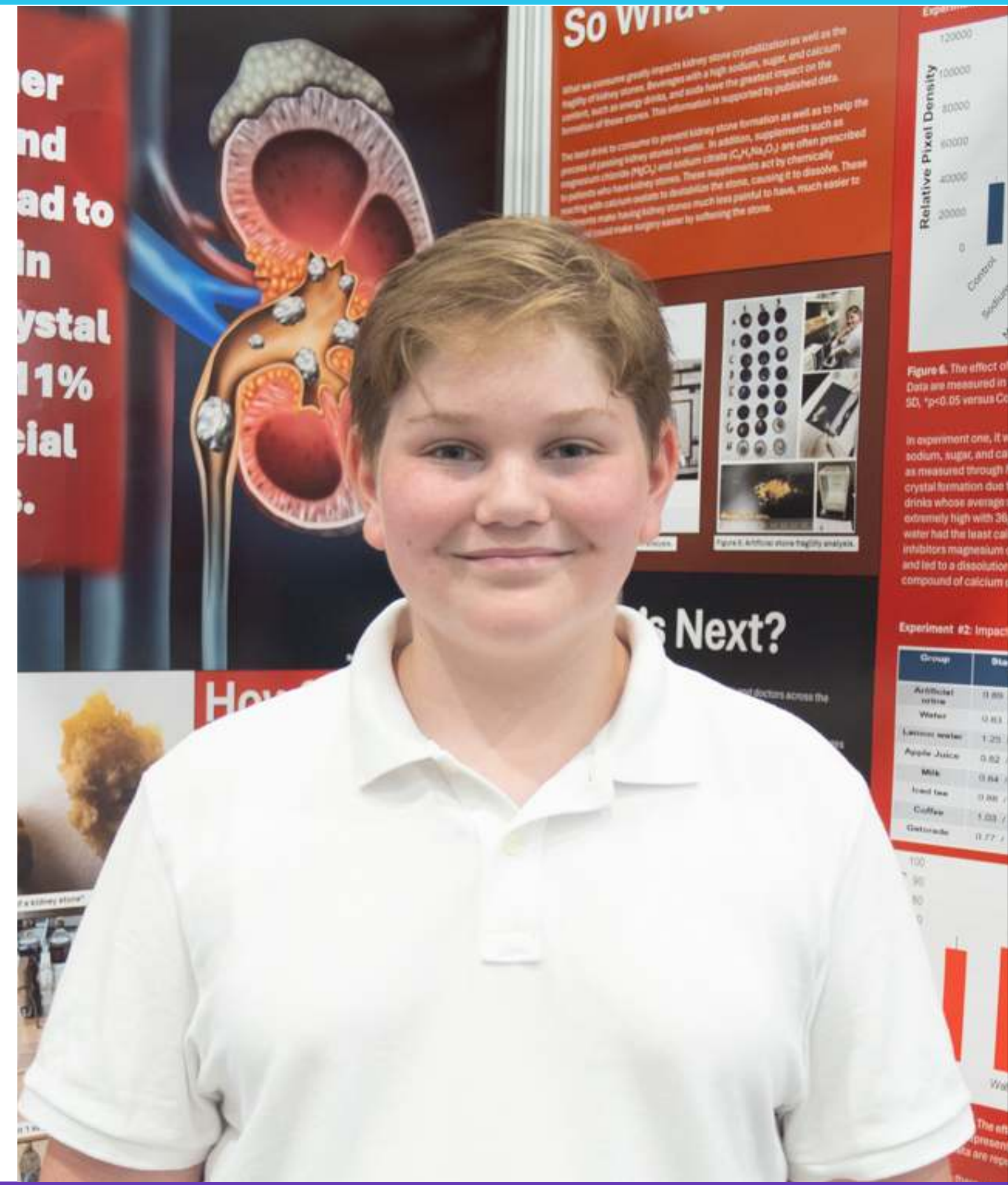
**Excellence Award - Silver  
 Prix d'excellence - argent**

Junior

**Brenden Sener**

**Effect of Common Beverages on Artificial Kidney Stone Growth and Hardness**

Thames Valley – Ontario





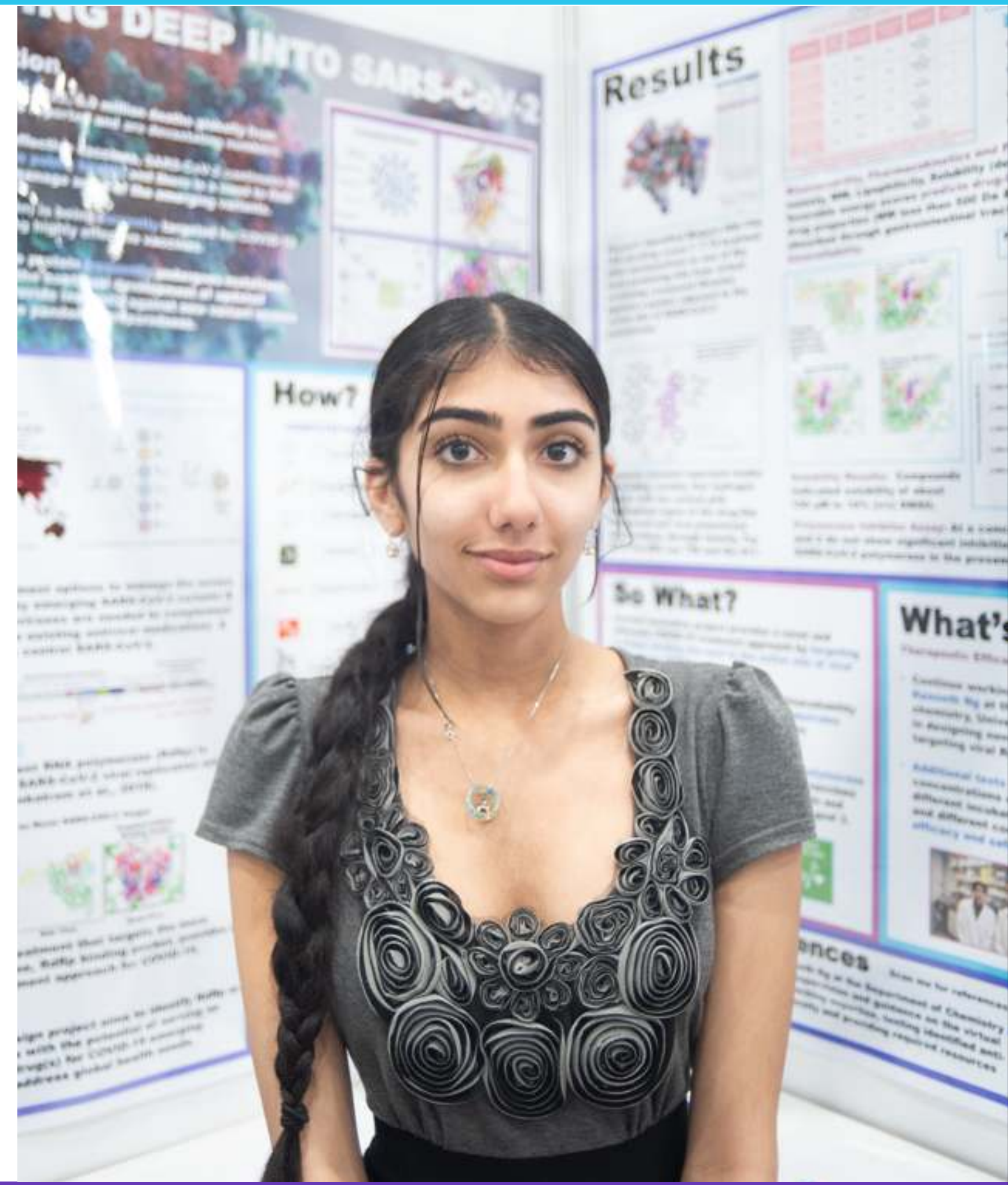


**Excellence Award - Silver**  
**Prix d'excellence - argent**  
Junior

# Sehar Sidhu

**Delving Deep Into SARS-CoV-2**

Windsor - Ontario







**Excellence Award - Silver**  
**Prix d'excellence - argent**  
Junior

# **Kate Thiessen-Clark** **Kiah Thiessen-Clark**

**Soap as a Moisture Loss Barrier**  
Central Interior BC – British Columbia





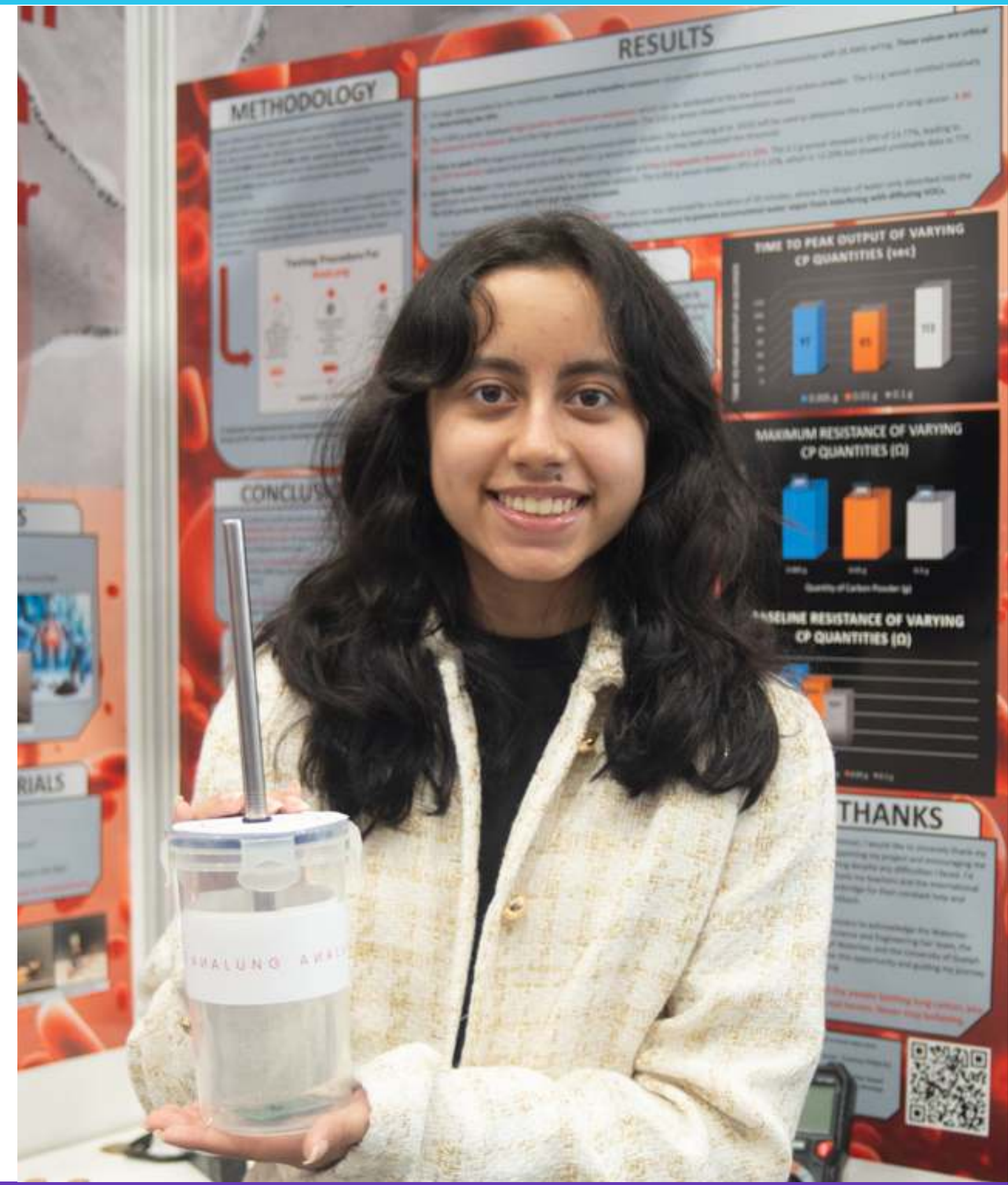


**Excellence Award - Silver**  
**Prix d'excellence - argent**  
Intermediate / Intermédiaire

# Ayesha Abubakr

**AnaLung: A Novel Approach to Lung Cancer Diagnosis**

Waterloo-Wellington – Ontario







**Excellence Award - Silver**  
**Prix d'excellence - argent**  
Intermediate / Intermédiaire

# Abdul Majeed Al Riahi

**SmartSightStick**

Windsor – Ontario







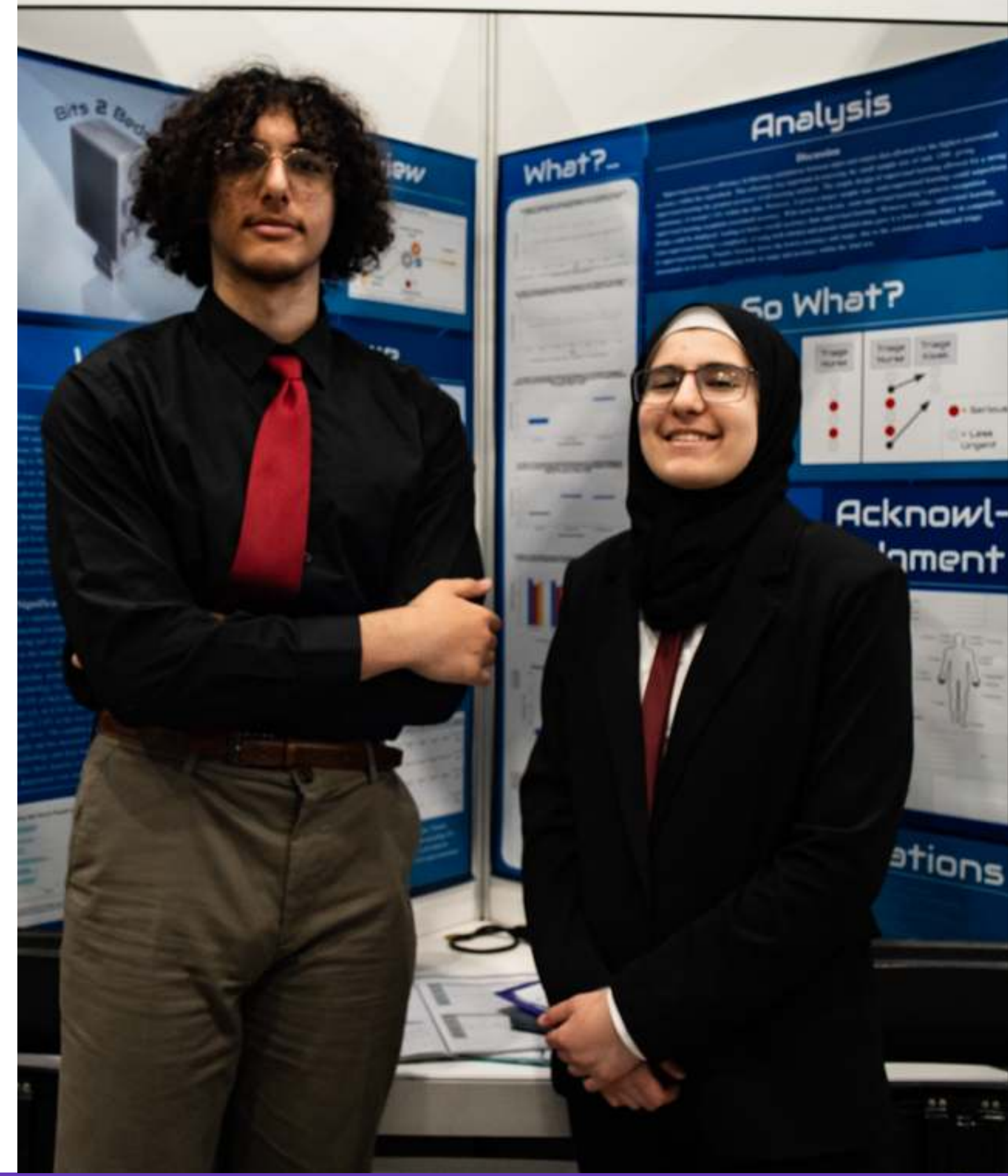
**Excellence Award - Silver**  
**Prix d'excellence - argent**

Intermediate / Intermédiaire

# **Bahaa Al Deen Alsaadi** **Zena Alsaadi**

**Bits to Bedside: An Ingenious Exploration of Machine Learning in Triage Assessments**

Bay Area - Ontario





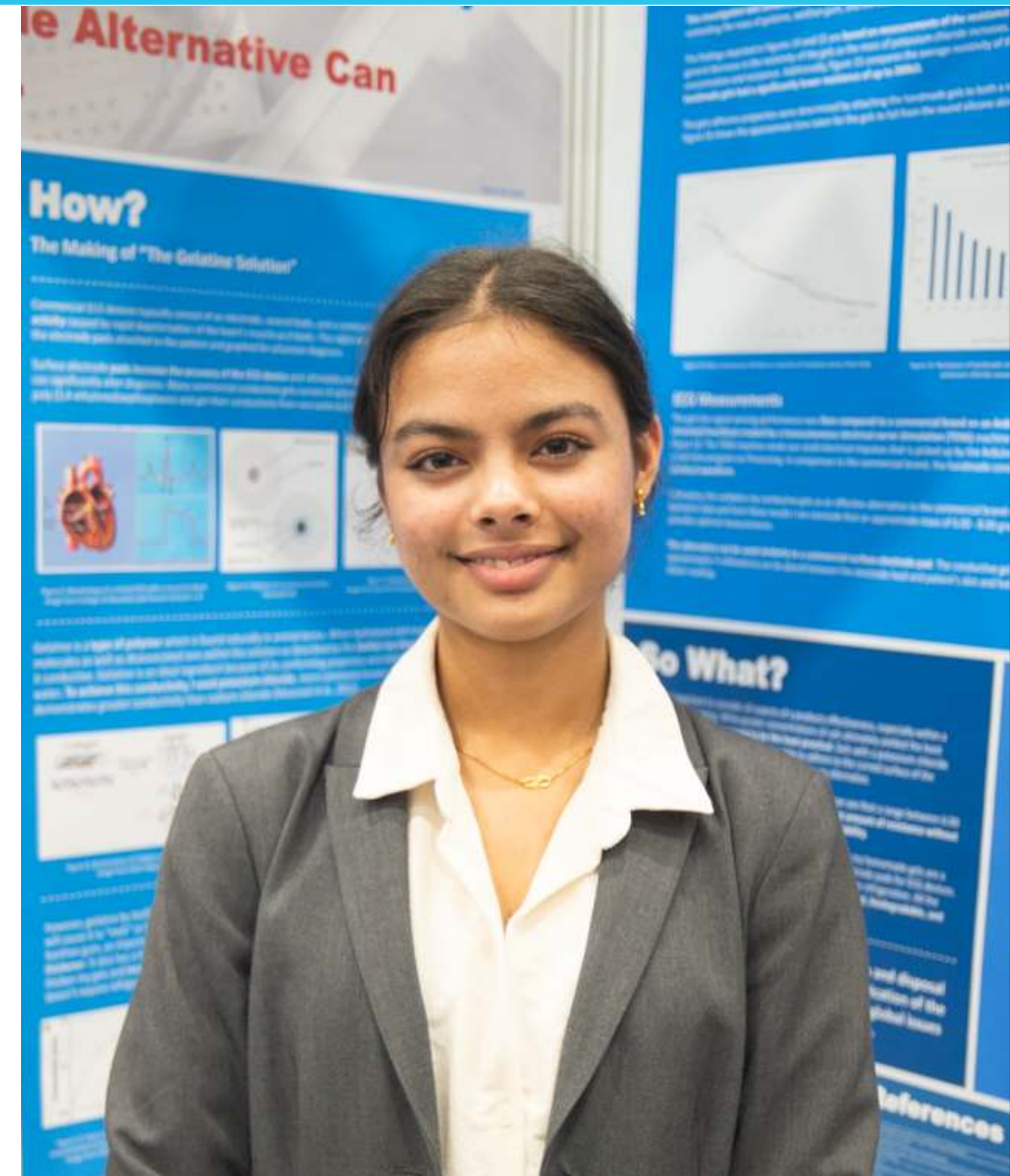


**Excellence Award - Silver**  
**Prix d'excellence - argent**  
Intermediate / Intermédiaire

## Karen Attri

**The Gelatine Solution: An Environmentally Friendly Alternative to Surface Electrode Pads in ECGs**

Calgary Youth - Alberta





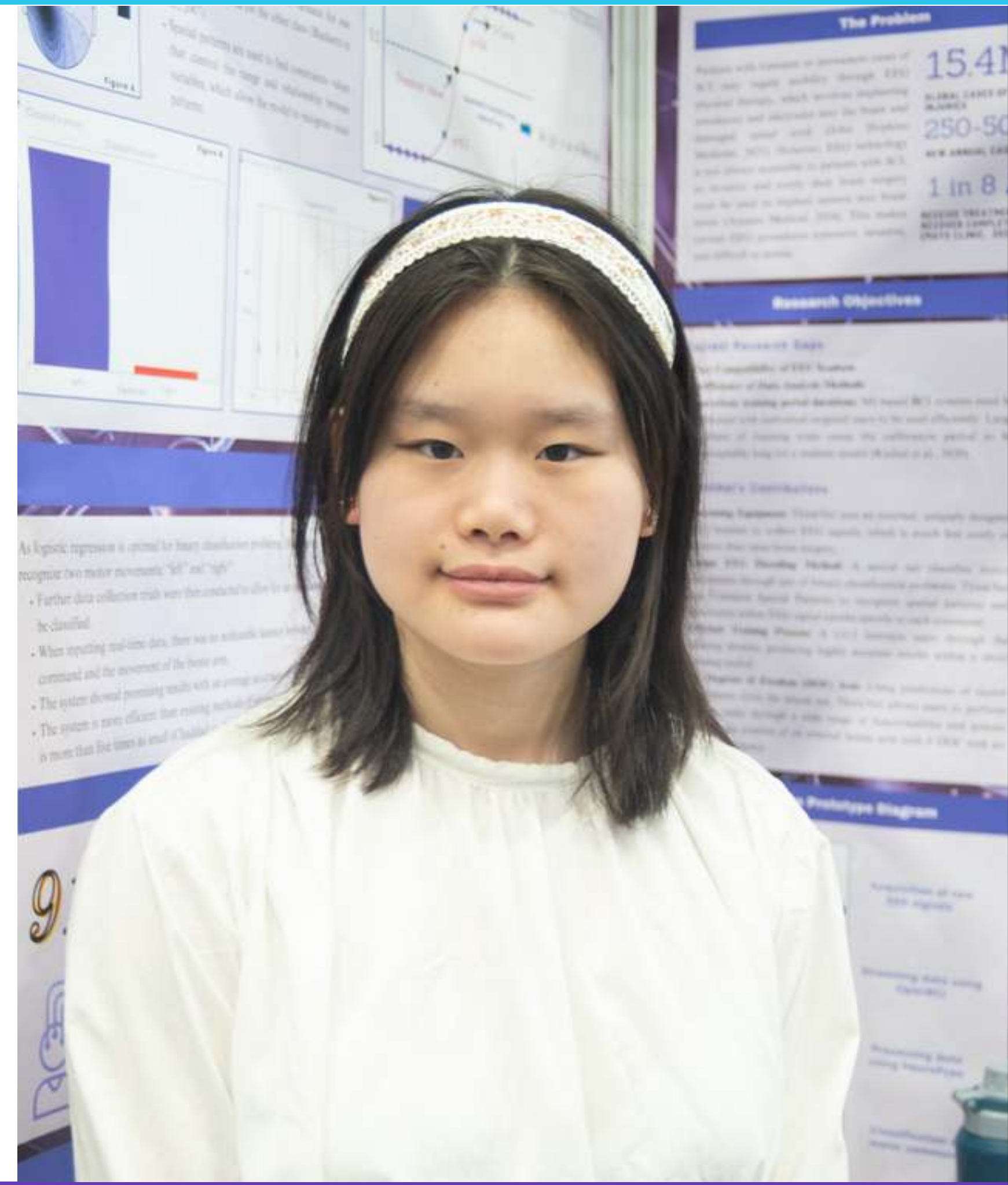


**Excellence Award - Silver**  
**Prix d'excellence - argent**  
Intermediate / Intermédiaire

# Abigail Chan

**ThinkNet: Decoding Brain Waves using an Electroencephalogram controlled BCI**

Waterloo-Wellington – Ontario







**Excellence Award - Silver**  
**Prix d'excellence - argent**  
Intermediate / Intermédiaire

# Audrey Cowen

**Microbes and Molecules: The Key to Abolishing Drug Resistance**

Toronto - Ontario







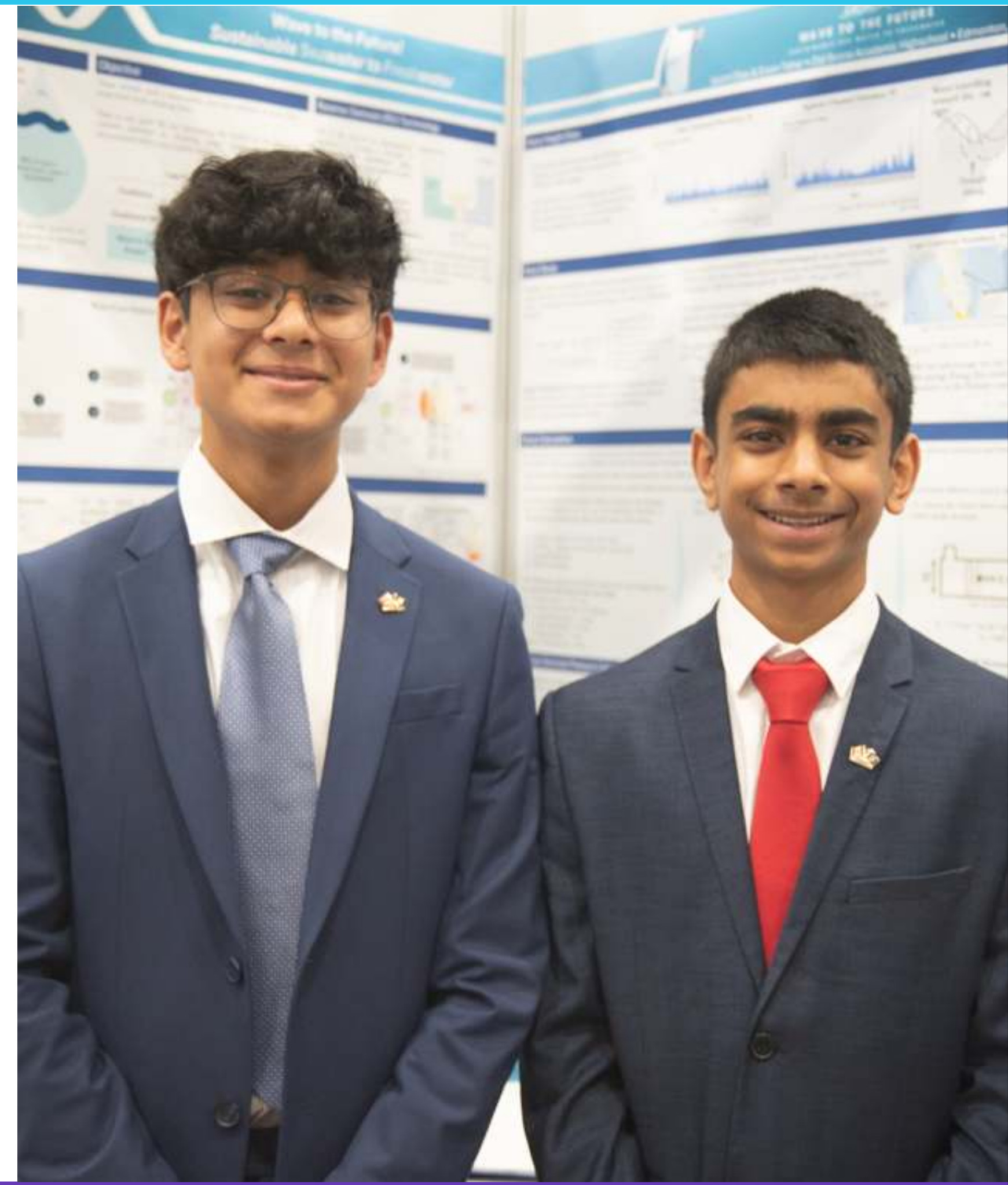
**Excellence Award - Silver**  
**Prix d'excellence - argent**

Intermediate / Intermédiaire

**Aaron Dias**  
**Esam Taher**

**Wave to the Future: Sustainable Seawater to Freshwater**

Edmonton - Alberta







**Excellence Award - Silver**  
**Prix d'excellence - argent**  
Intermediate / Intermédiaire

# Lianna Kruger

**The Sound of Pathology**

Thames Valley – Ontario





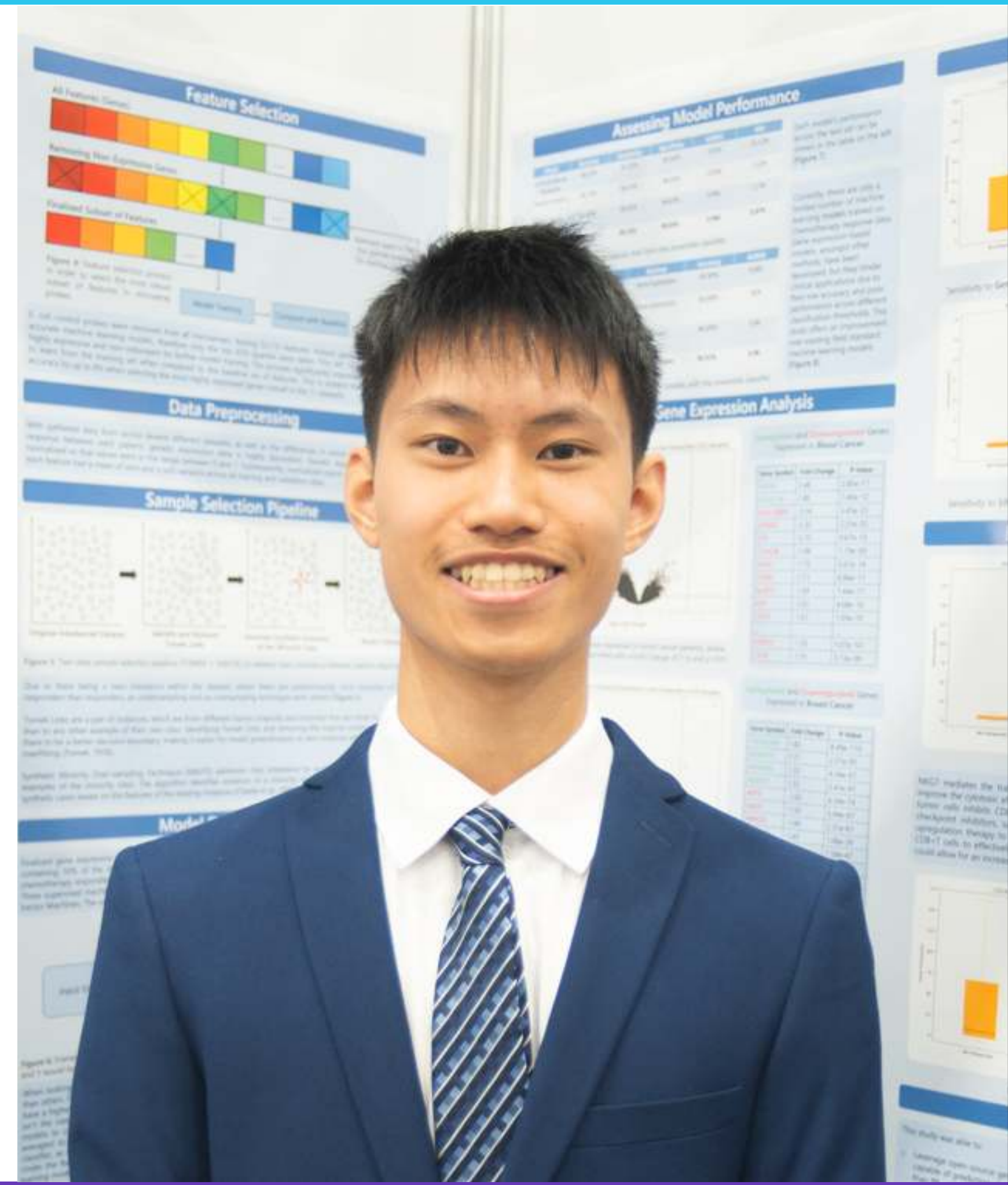


**Excellence Award - Silver**  
**Prix d'excellence - argent**  
Intermediate / Intermédiaire

# Dewey Liang

**Gene Expression-Based Prediction of Chemotherapy Response with Machine Learning**

Greater Vancouver – British Columbia







**Excellence Award - Silver**  
**Prix d'excellence - argent**  
Intermediate / Intermédiaire

## Sarah Murimboh

**Friend or Foe: Evaluating the Toxicity of Natural Pesticides on Springtails**

Annapolis Valley – Nova Scotia







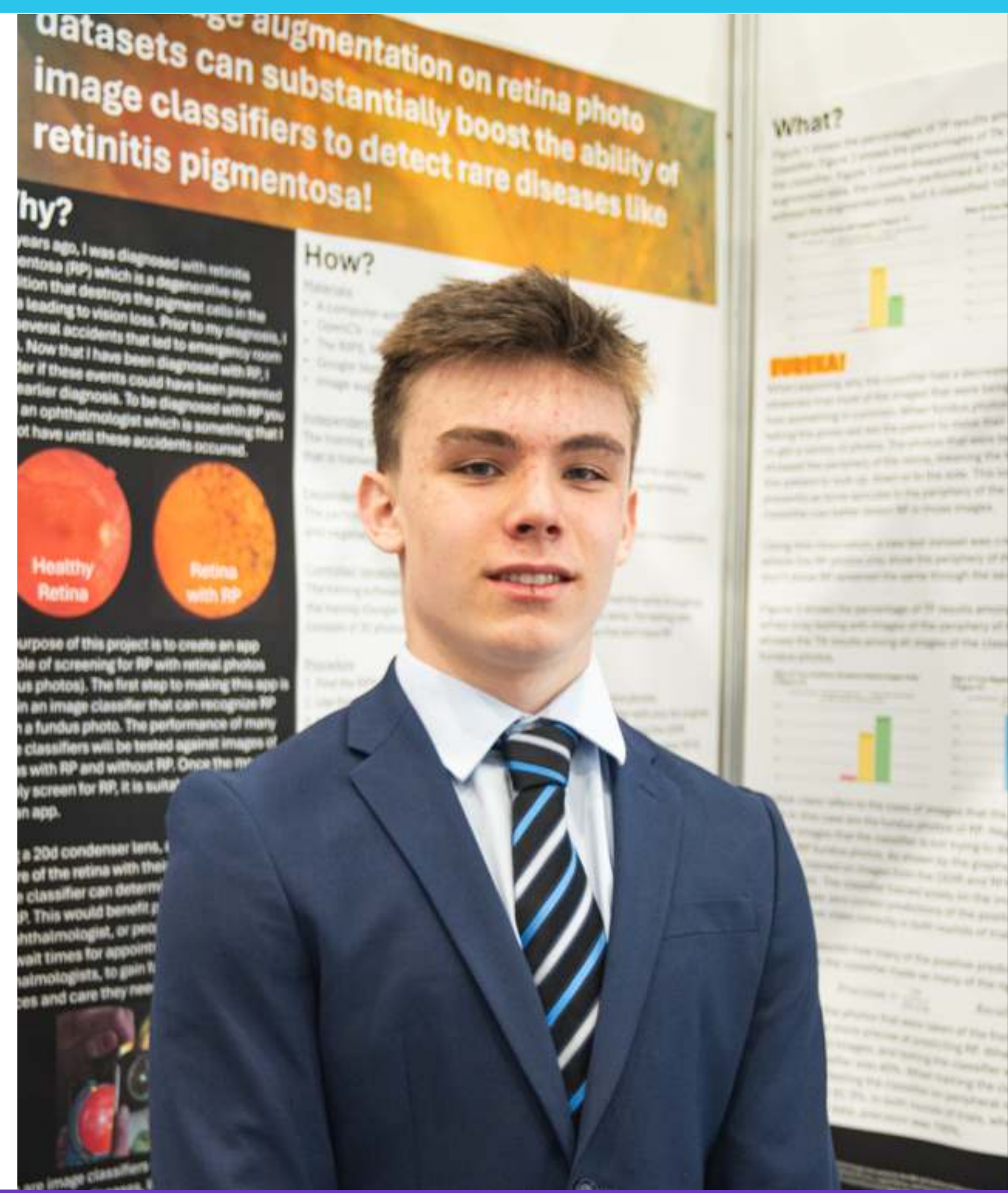
**Excellence Award - Silver**  
**Prix d'excellence - argent**

Intermediate / Intermédiaire

# Harry Nickerson

**Screening for Retinitis Pigmentosa in the Blink of an AI**

Halifax – Nova Scotia







**Excellence Award - Silver**  
**Prix d'excellence - argent**

Intermediate / Intermédiaire

## Nico Pacifici

**The PrepStep: A Mobile Health Platform to Detect Ventricular  
Cardiomyopathy in Athletes Using AI**

Bay Area - Ontario







**Excellence Award - Silver**  
**Prix d'excellence - argent**  
Intermediate / Intermédiaire

# Anerie Patel

**Posture Perfect: Leveraging Machine Learning to Enhance Posture Awareness and Correction**

Ottawa - Ontario







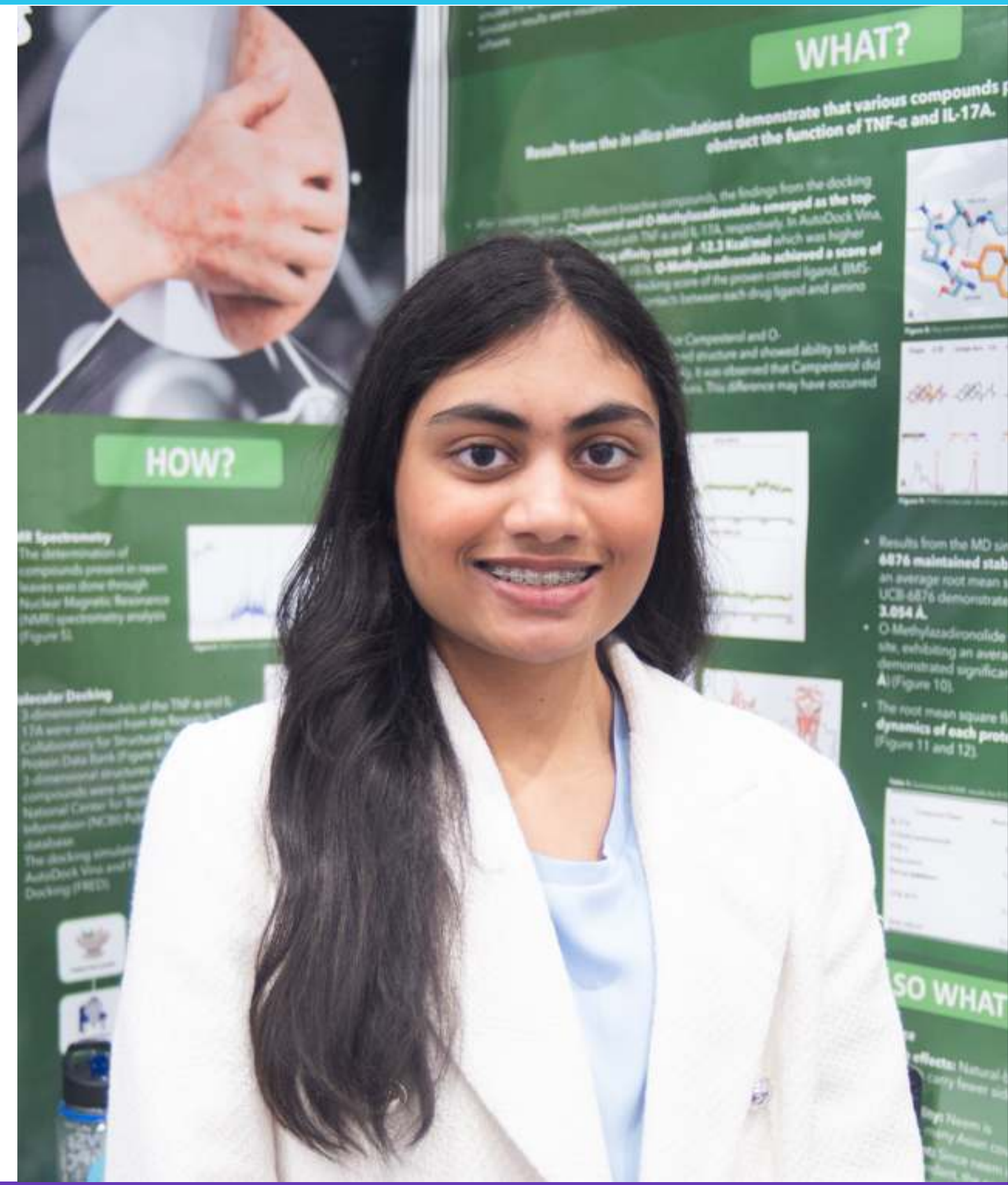
**Excellence Award - Silver  
Prix d'excellence - argent**

Intermediate / Intermédiaire

**Alpita Patro**

**Neem: A Novel Approach to Optimize Treatment for Psoriasis Through Bioinformatics**

Eastern Newfoundland – Newfoundland & Labrador





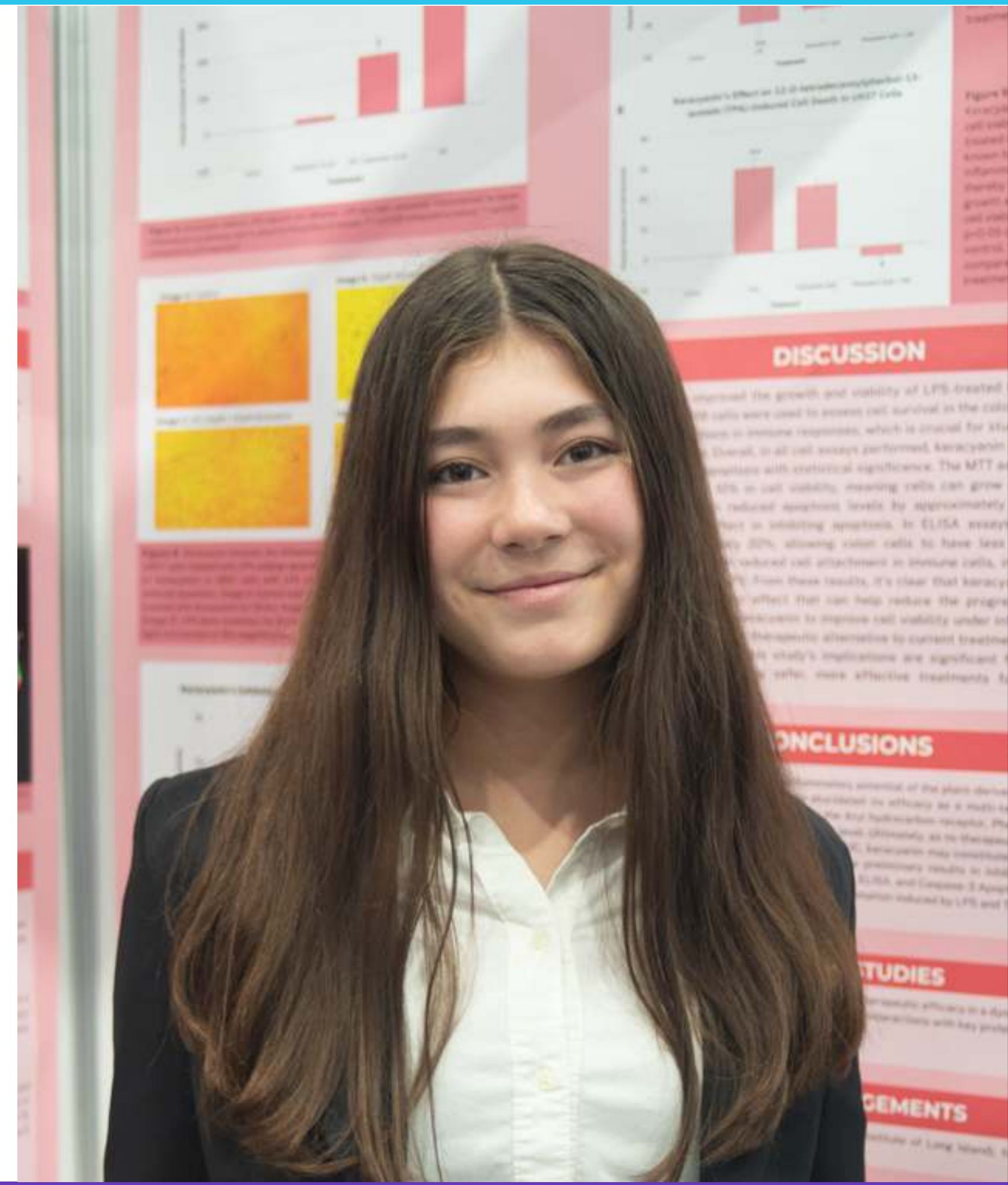


**Excellence Award - Silver**  
**Prix d'excellence - argent**  
Intermediate / Intermédiaire

# Jacklyn Saddler

**The Effect of Keracyanin in Attenuating the Multifactorial Pathogenesis of Ulcerative Colitis**

Niagara - Ontario







**Excellence Award - Silver**  
**Prix d'excellence - argent**  
Intermediate / Intermédiaire

# Mohamed Saleh

**Pumpkin Waste to Vegan Chic: A Sustainable Journey In Cellulose Infused Bio-Based Films For Fashion**

Windsor - Ontario







**Excellence Award - Silver**  
**Prix d'excellence - argent**  
Intermediate / Intermédiaire

**Ella Sehn**

**Right On The Nose: Using a Super-Absorbent Polymer to Improve Treatment of Chronic Sinusitis**

Peterborough – Ontario







**Excellence Award - Silver**  
**Prix d'excellence - argent**  
Intermediate / Intermédiaire

## Zane Stewart

**Optimization of an Ionic Thruster**

Vancouver Island – British Columbia







**Excellence Award - Silver**  
**Prix d'excellence - argent**  
Intermediate / Intermédiaire

## Misha van Anders

**BioWing: Biomimetic Engineering Gets a Lift**

Frontenac, Lennox & Addington – Ontario







**Excellence Award - Silver**  
**Prix d'excellence - argent**

Intermediate / Intermédiaire

**Lillian Zhang**

**Lower Limb Auxiliary Exoskeleton with Gait Management Feedback**

Calgary Youth – Alberta







**Excellence Award - Silver**  
**Prix d'excellence - argent**

Senior / Sénior

# Nikita Artsimenia

**The "Helping Hand" Project**

Calgary Youth - Alberta







**Excellence Award - Silver**  
**Prix d'excellence - argent**

Senior / Sénior

**Ziya Bhayani**

**Temporamental: The relationship between music tempo and calmness**

Calgary Youth – Alberta







**Excellence Award - Silver**  
**Prix d'excellence - argent**

Senior / Sénior

# Aliyan Boodhwani

**Greenifying Wastewater Treatment**

Ottawa – Ontario







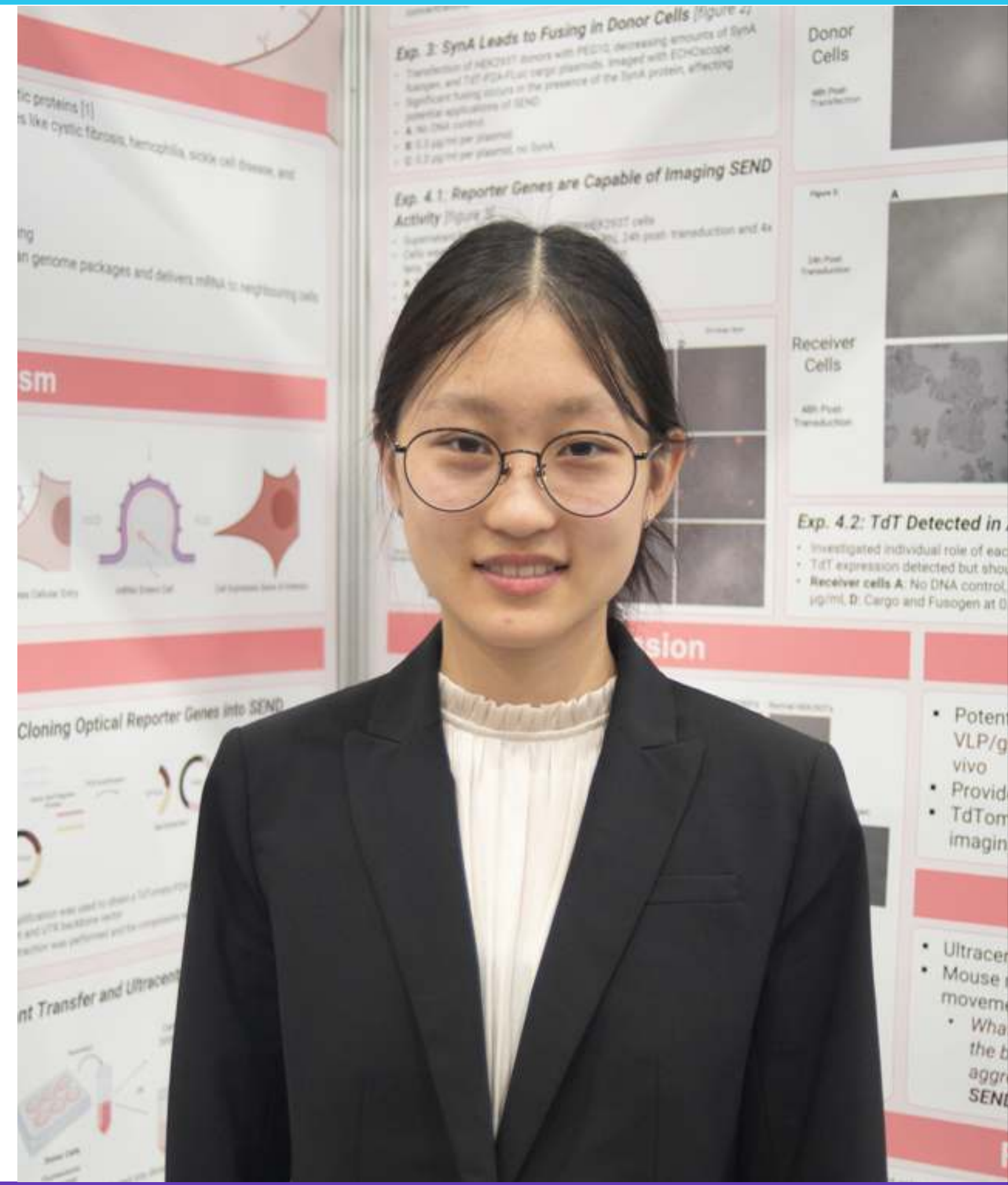
# Excellence Award - Silver Prix d'excellence - argent

Senior / Sénior

## Isabella Bu

### A SEND-Based Imaging Approach to Track mRNA Delivery for Gene Therapy

Thames Valley – Ontario







**Excellence Award - Silver**  
**Prix d'excellence - argent**

Senior / Sénior

# Jiayao Chen

**Research on Inchworm Robot Based on Folding PVC Structure**

York – Ontario







**Excellence Award - Silver**  
**Prix d'excellence - argent**

Senior / Sénior

# Jack D'Entremont Onkit Saha

**Stratosync**

North-West New Brunswick – New Brunswick







**Excellence Award - Silver  
Prix d'excellence - argent**

Senior / Sénior

**Zachary Dostie  
Mickaël Plante**

**Les algues sauvent les ♀♂ves!**

Réseau Technoscience – Québec







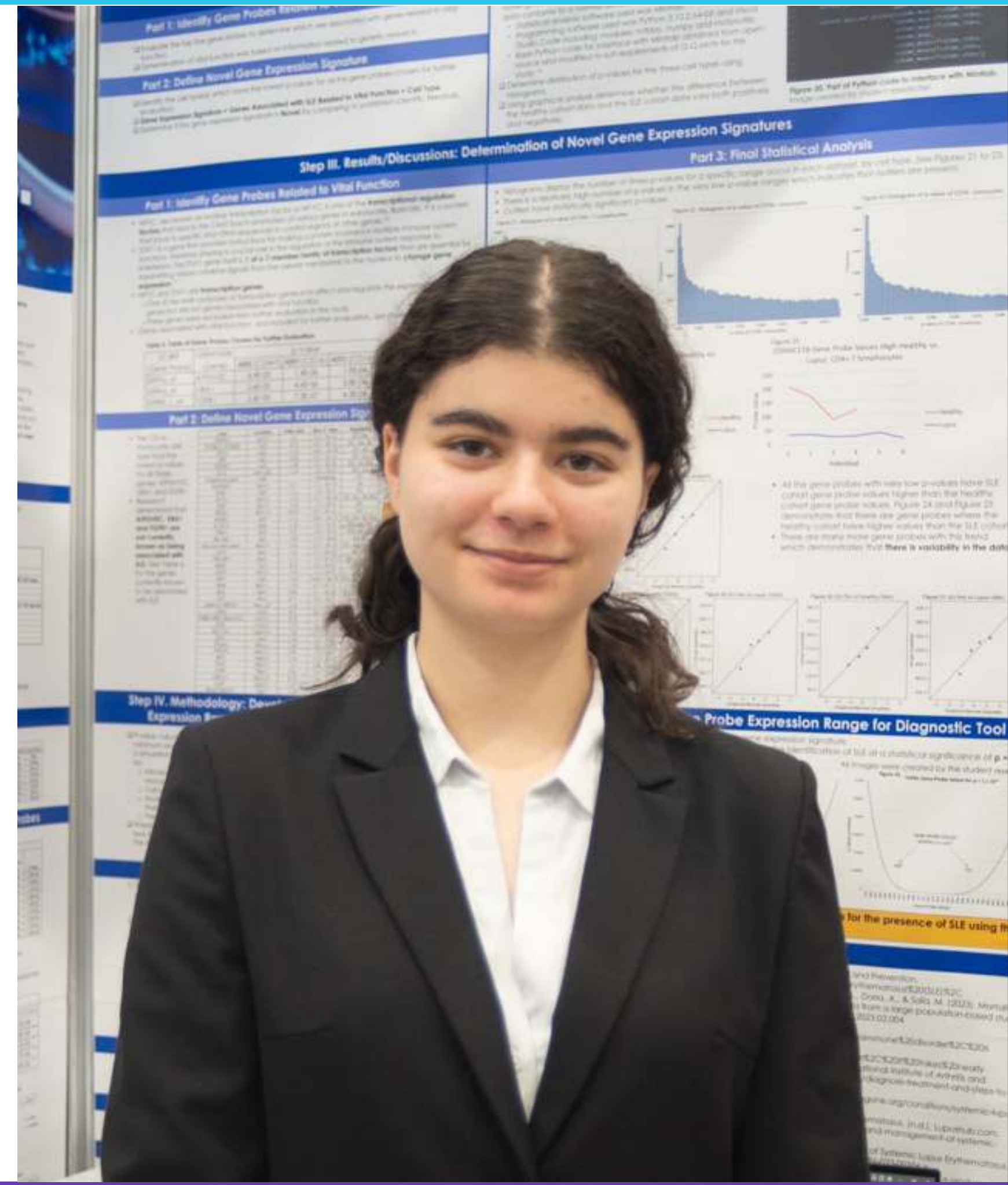
# Excellence Award - Silver Prix d'excellence - argent

Senior / Sénior

## Maya LeBlanc

### Analysis of CD16+, CD16- and CD4+ T Cells to Identify Novel Gene Signatures and Diagnostics for SLE

Bay Area - Ontario







**Excellence Award - Silver**  
**Prix d'excellence - argent**

Senior / Sénior

## Jordan Montague

**The Effects of Fidgeting on Neurotypical Versus Neurodivergent People**

Labrador, Western and Central NL – Newfoundland & Labrador







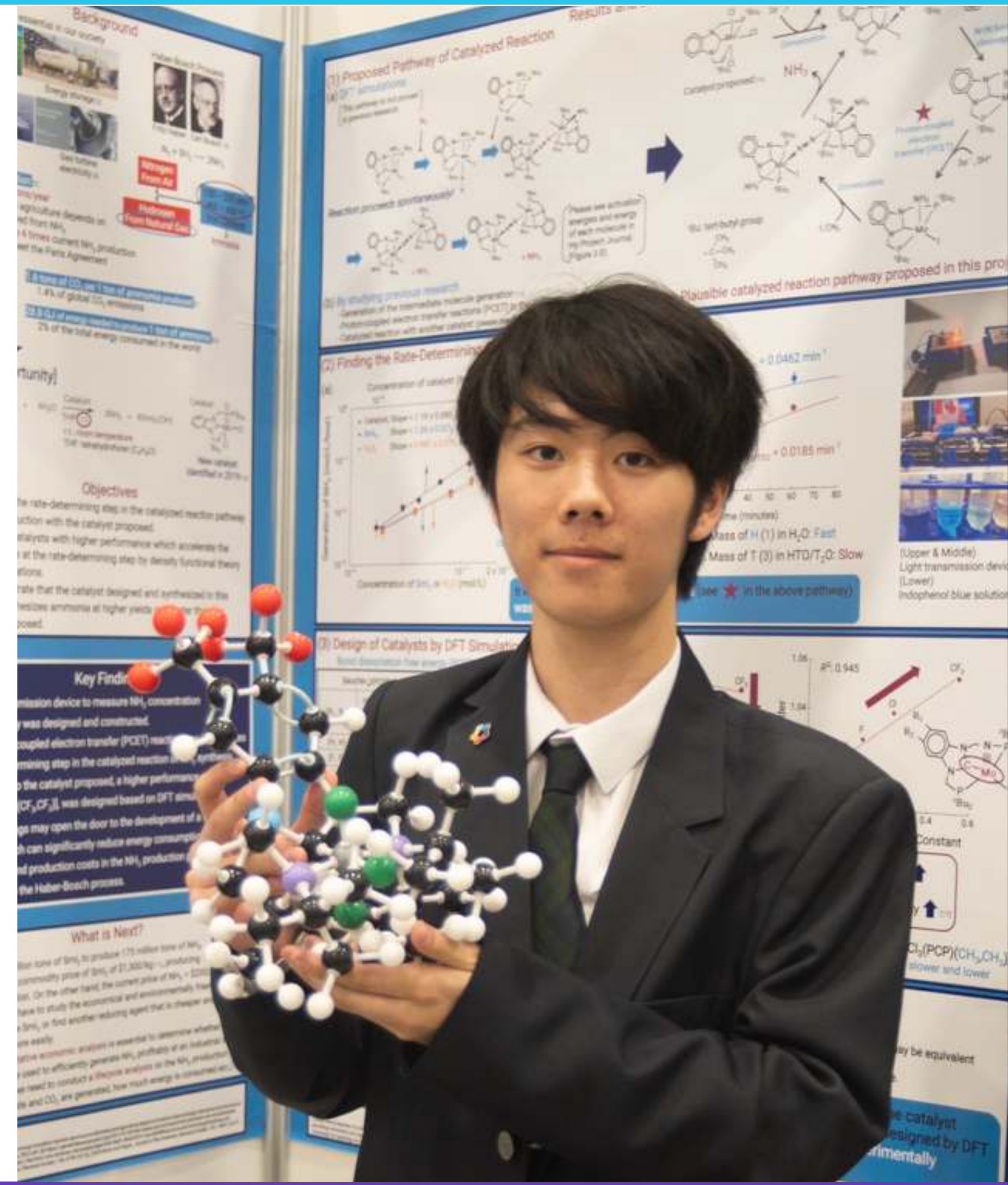
# Excellence Award - Silver Prix d'excellence - argent

Senior / Sénior

## Kibo Nagasaki

### Bye-Bye Haber-Bosch

Bay Area - Ontario







**Excellence Award - Silver**  
**Prix d'excellence - argent**

Senior / Sénior

**Artash Nath**

**Deep Learning for Marine Mammal Conservation: Multi-Species Detection and Underwater Noise Assessment**

Toronto - Ontario





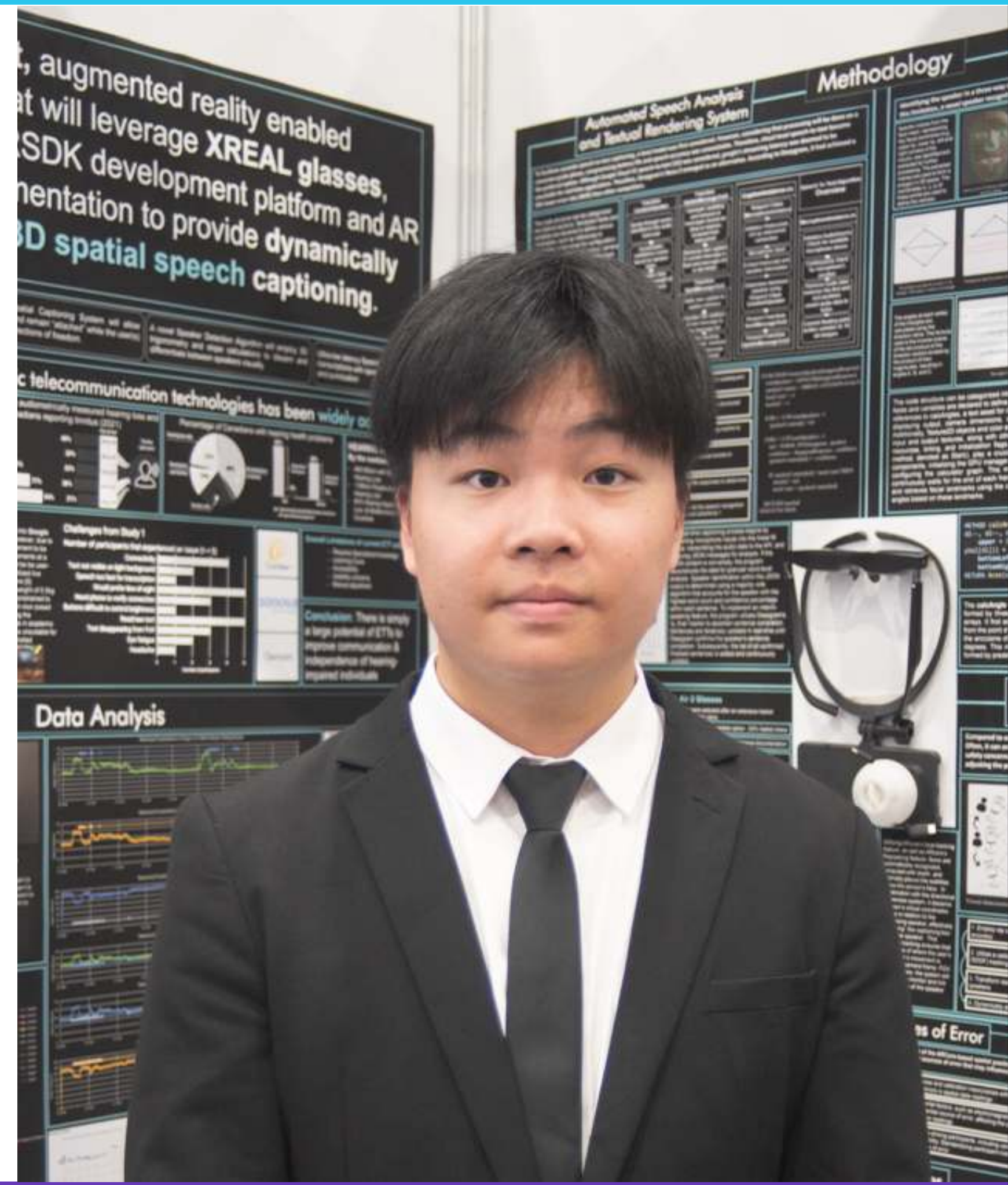


**Excellence Award - Silver**  
**Prix d'excellence - argent**  
Senior / Sénior

# Justin Peng

**Low-Cost AR-Enabled Eyewear for Dynamic 3D Spatial Speech Captioning for the Hearing-Impaired**

Greater Vancouver – British Columbia







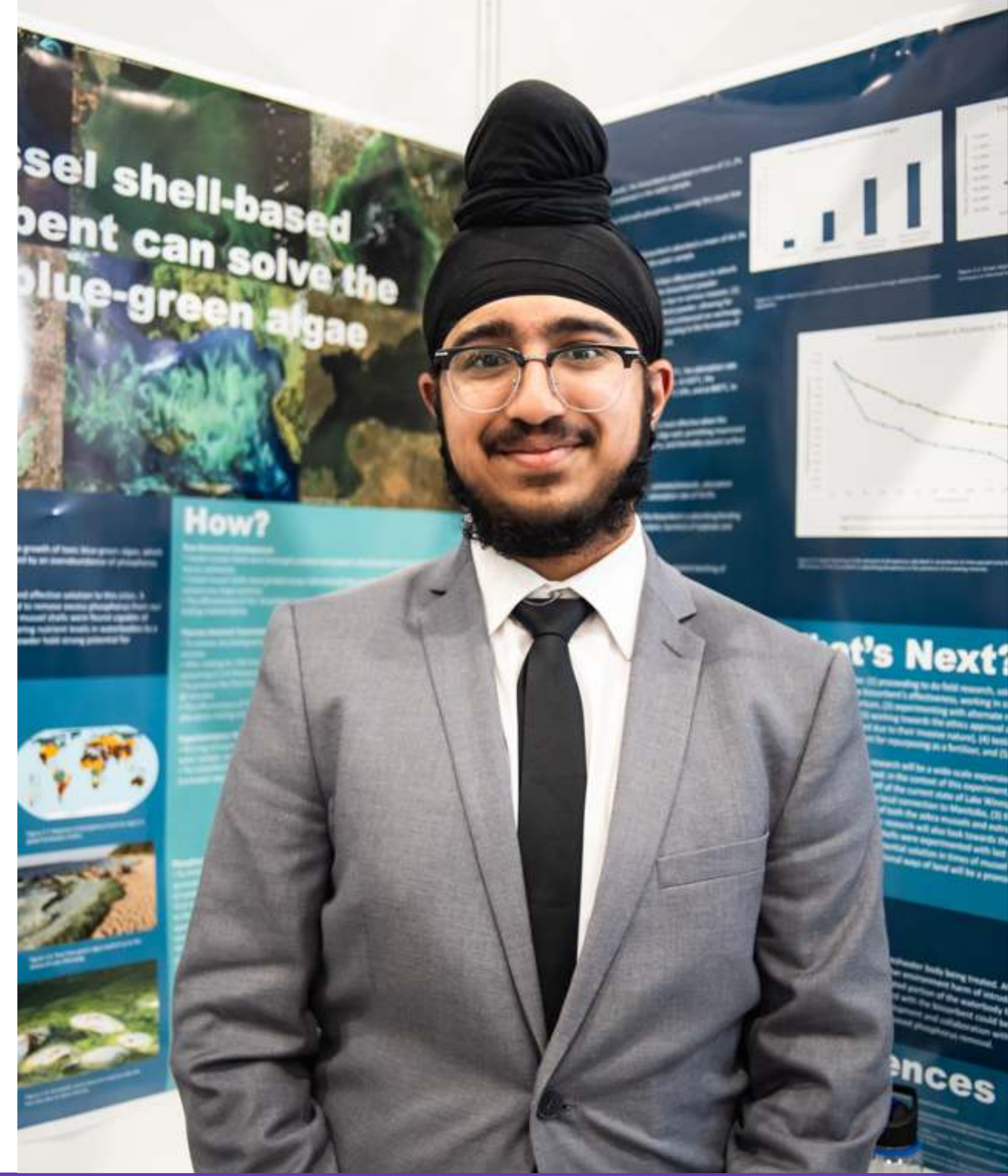
**Excellence Award - Silver**  
**Prix d'excellence - argent**

Senior / Sénior

## Baljot Rai

**MopMussels: Development of a Carpet Mussel Shell-based Biosorbent for Phosphorus**

Bison - Manitoba







**Excellence Award - Silver  
Prix d'excellence - argent**

Senior / Sénior

**Sohila Sidhu**

**From Liquid To Life: Reprogramming Urinary Stem Cells Into Beta Pancreatic Cells**

Windsor - Ontario







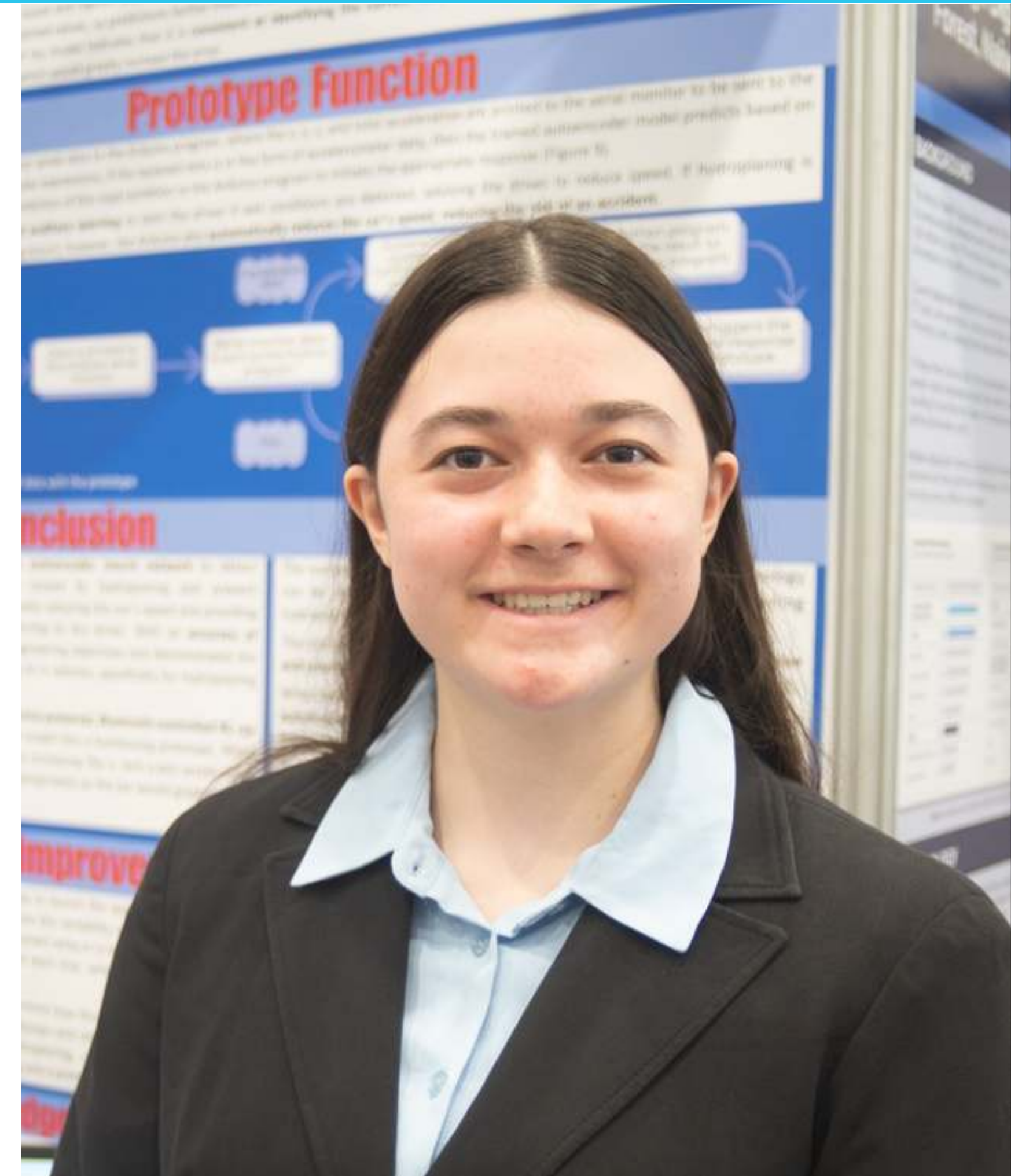
**Excellence Award - Silver**  
**Prix d'excellence - argent**

Senior / Sénior

## **Cordelia Simmons**

**Hydroplaning Detection and Prevention Using an AI Neural Network**

Bay Area - Ontario







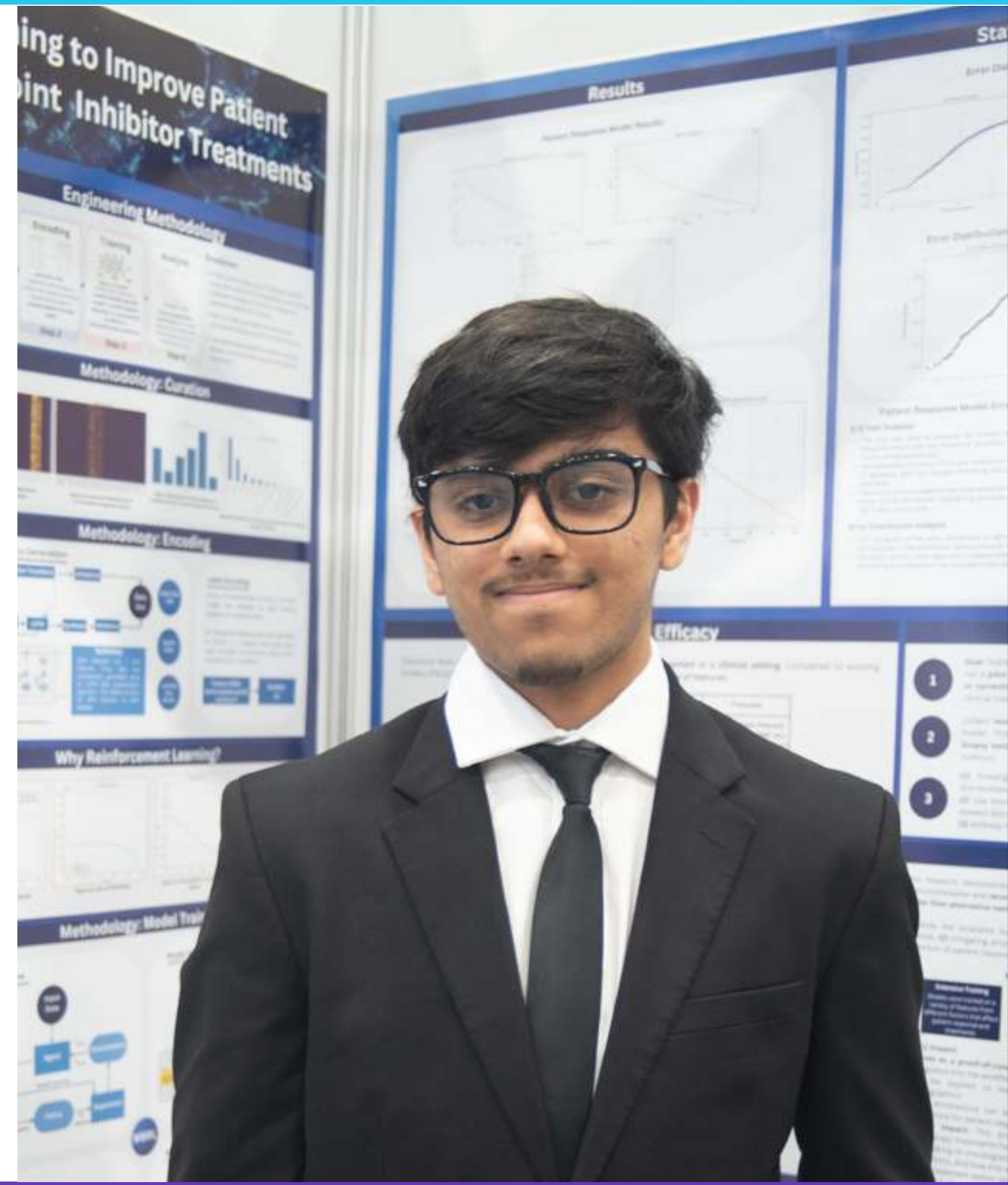
**Excellence Award - Silver**  
**Prix d'excellence - argent**

Senior / Sénior

**Arjun Virk**

**Using Machine Learning to Quantify Pan-Cancer Immunotherapy Response and Optimizing Treatments**

Peel - Ontario







**Excellence Award - Silver**  
**Prix d'excellence - argent**  
Senior / Sénior

# Danielle Vrignon

**Buzzicompteur**

Western Manitoba – Manitoba







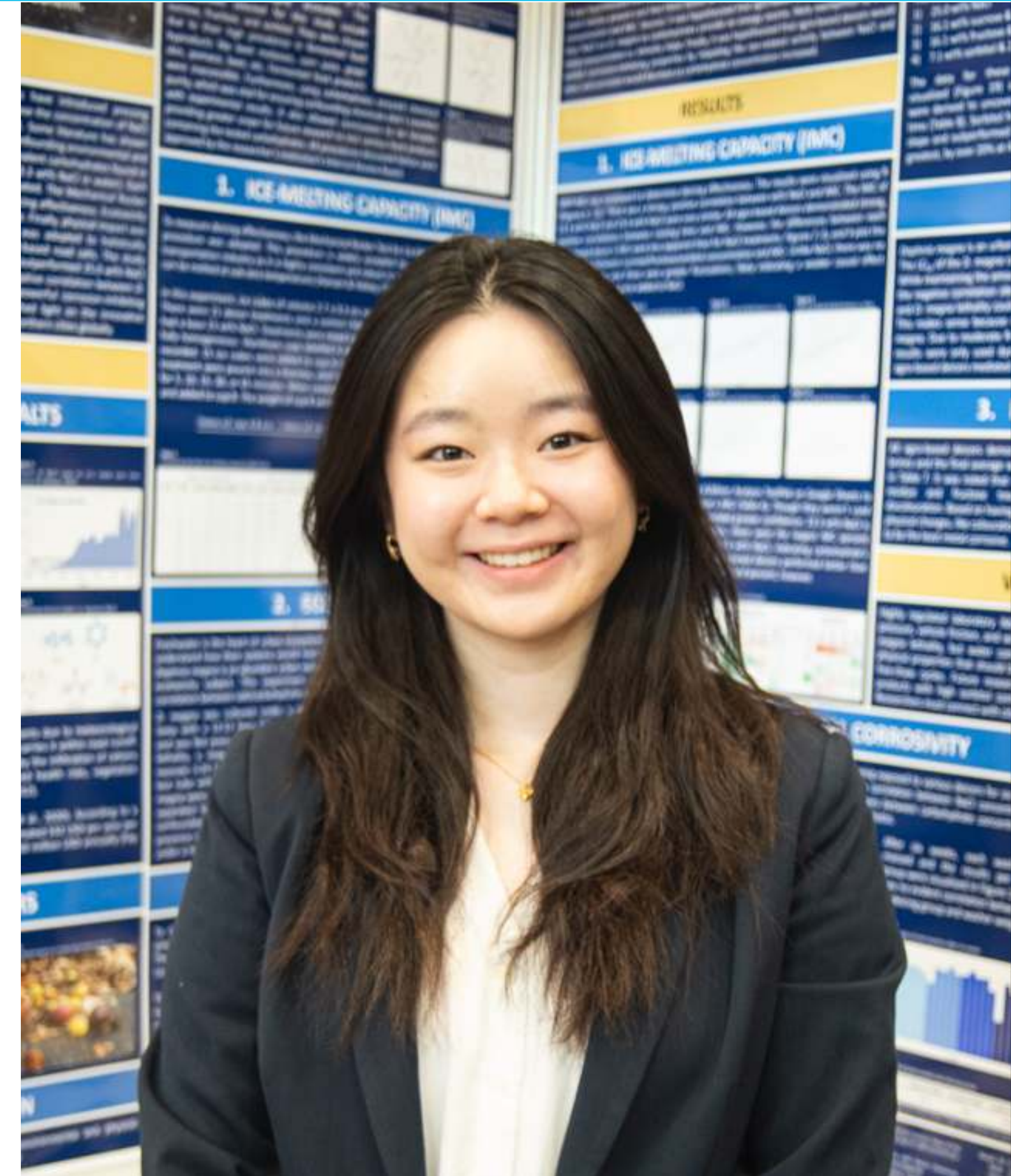
**Excellence Award - Silver**  
**Prix d'excellence - argent**

Senior / Sénior

**Errita Xu**

**An Evaluation of the Ice-Melting Capacity, Ecotoxicity, and Corrosivity of Agro-Based Deicers**

Toronto - Ontario





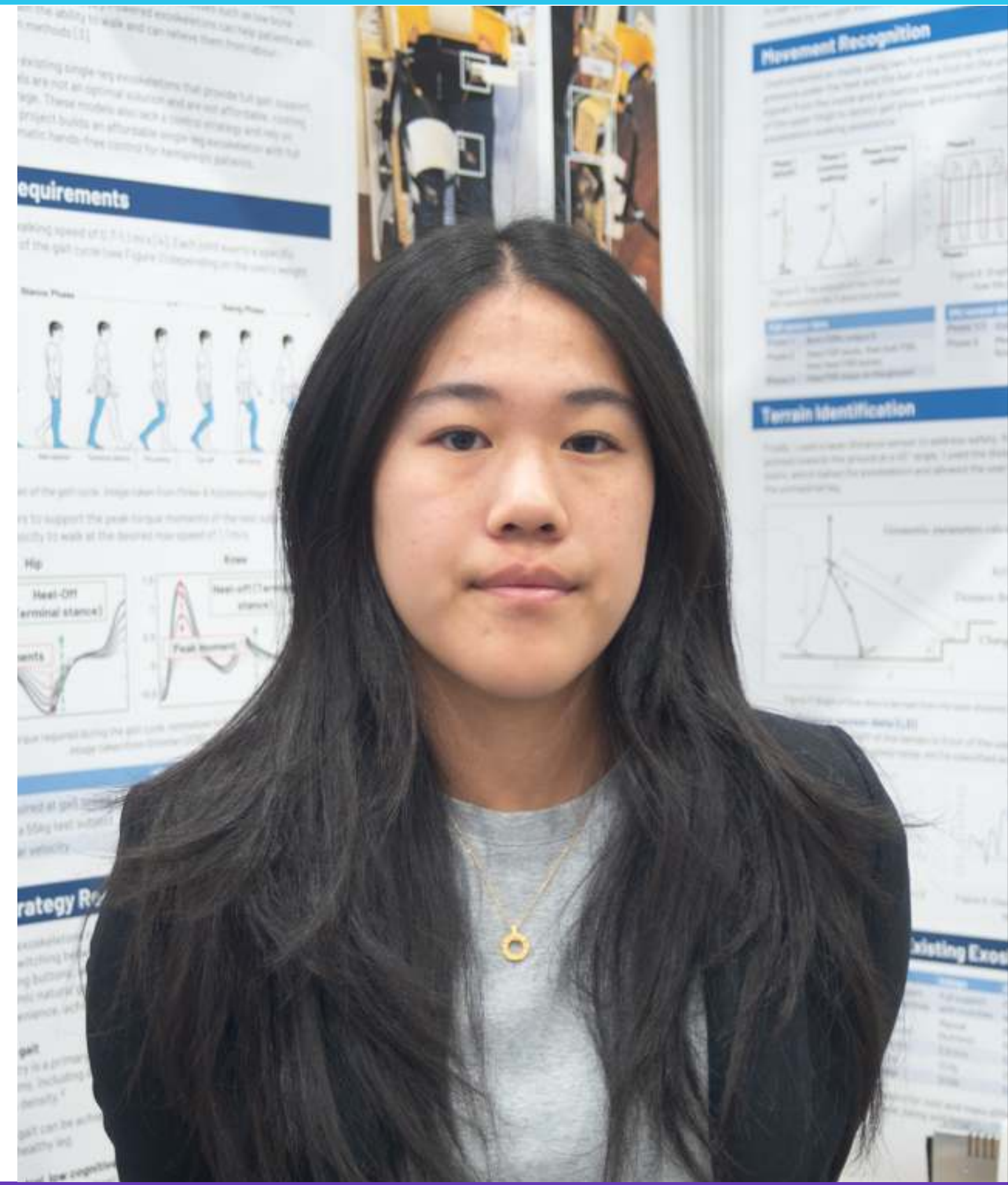


**Excellence Award - Silver**  
**Prix d'excellence - argent**  
Senior / Sénior

**Tara Zhan**

**Design of a Hemiplegic Exoskeleton with an Automatic Control Strategy**

Greater Vancouver – British Columbia







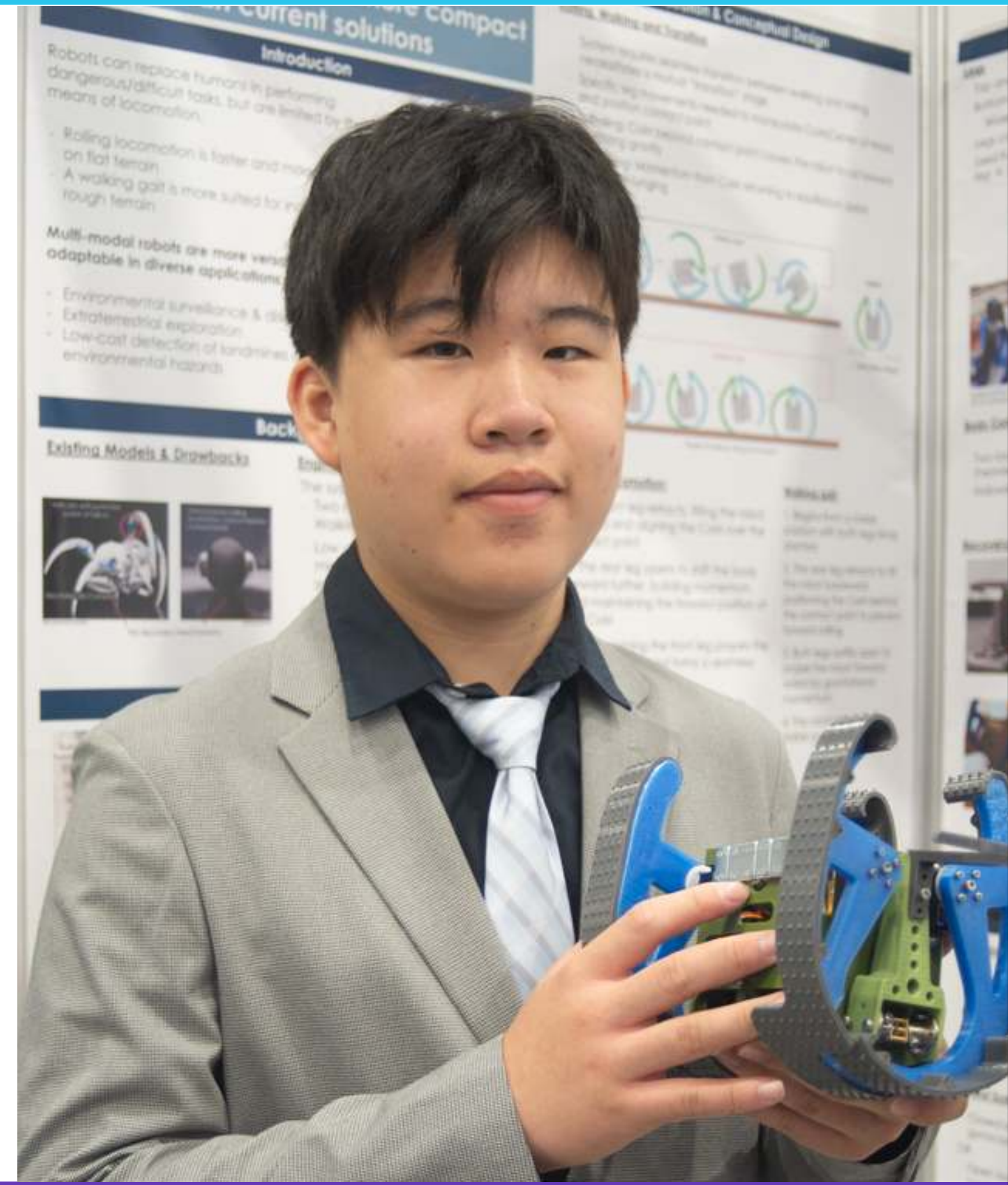
**Excellence Award - Silver**  
**Prix d'excellence - argent**

Senior / Sénior

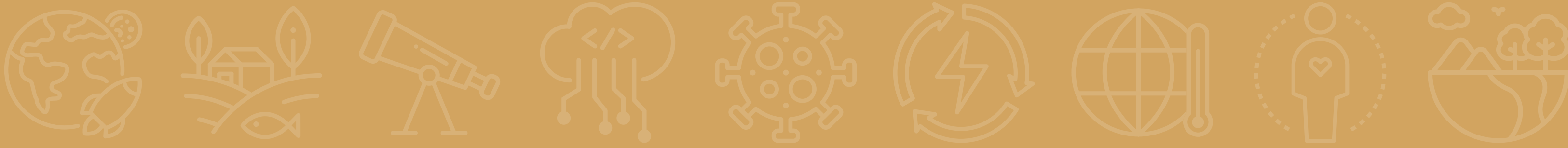
**Sam Zhang**

**A Two-Modal Robot for Adaptability in Diverse Environments With Rolling Locomotion and Walking Gait**

Bay Area - Ontario





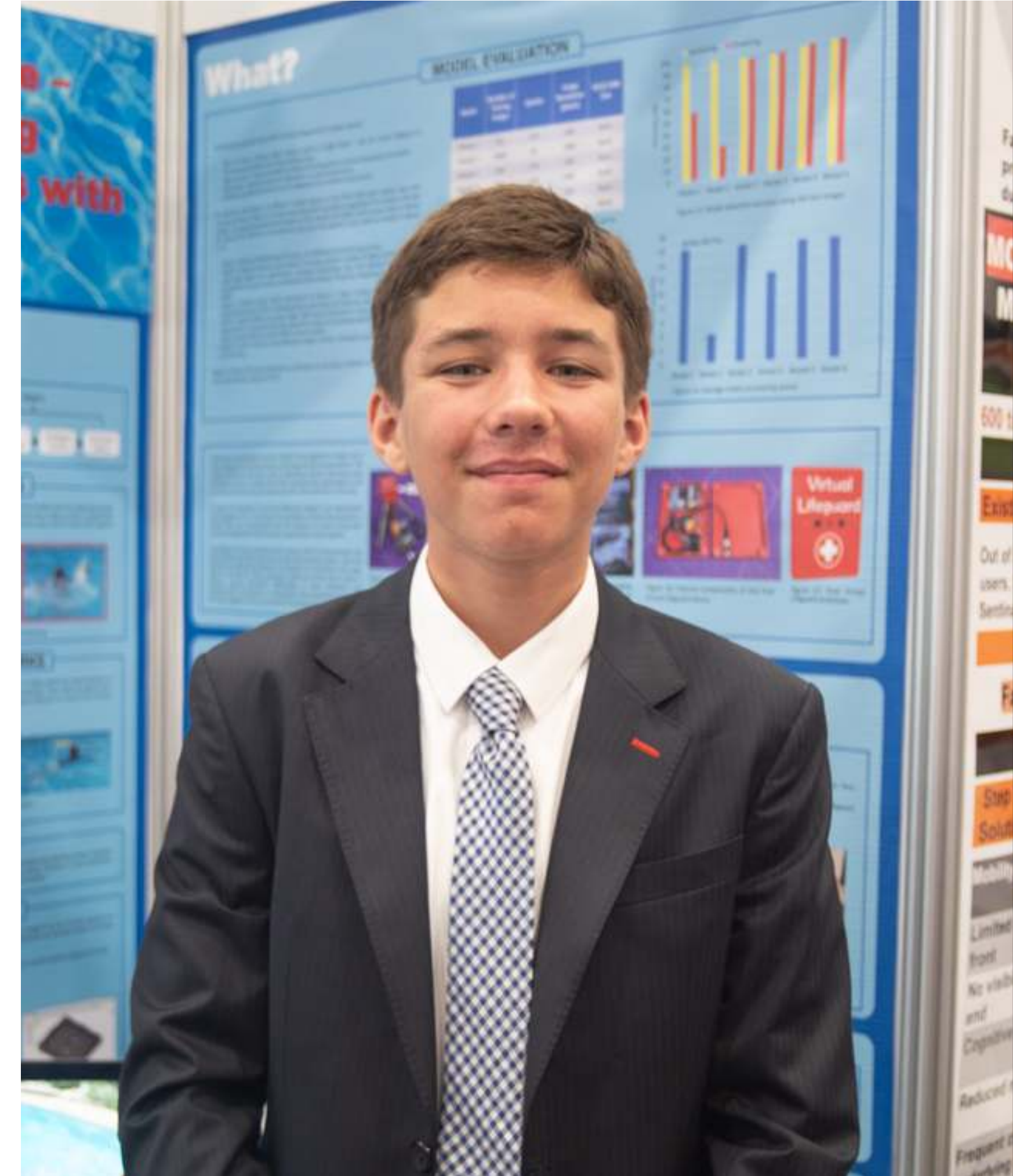


**Excellence Award - Gold**  
**Prix d'excellence - or**  
Junior

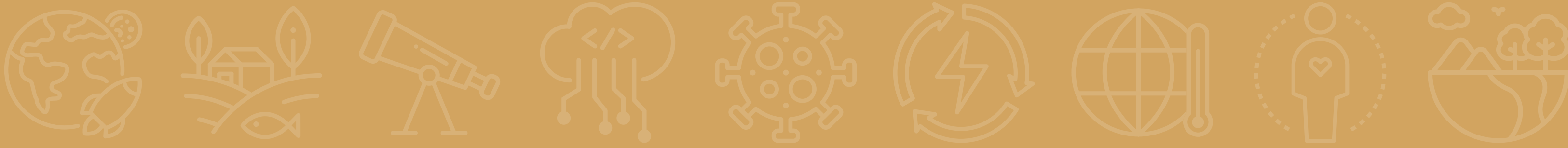
**Evan Budz**

**Virtual Lifeguard: A Novel AI Approach to Drowning Prevention**

Bay Area - Ontario







**Excellence Award - Gold**  
**Prix d'excellence - or**  
Junior

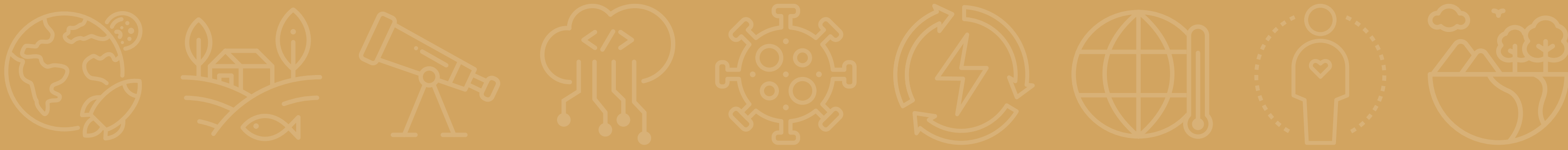
## **Sarah Bykewich**

**Electroculture**

Edmonton – Alberta





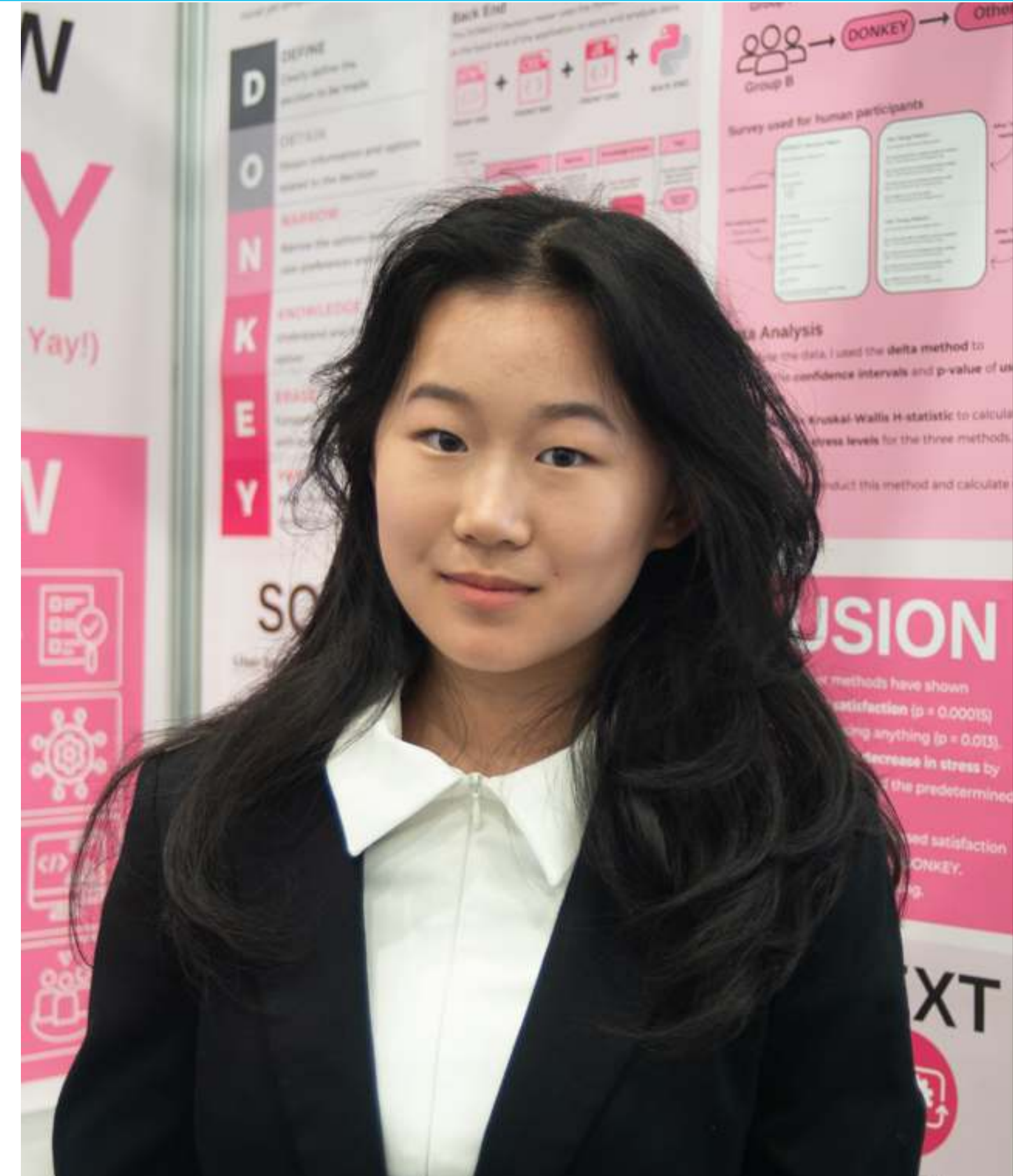


**Excellence Award - Gold**  
**Prix d'excellence - or**  
Junior

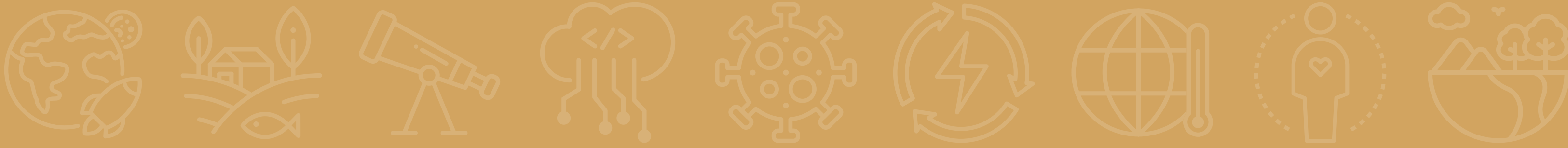
## **Daisy Dong**

**DONKEY: A solution framework for Analysis Paralysis**

Niagara – Ontario





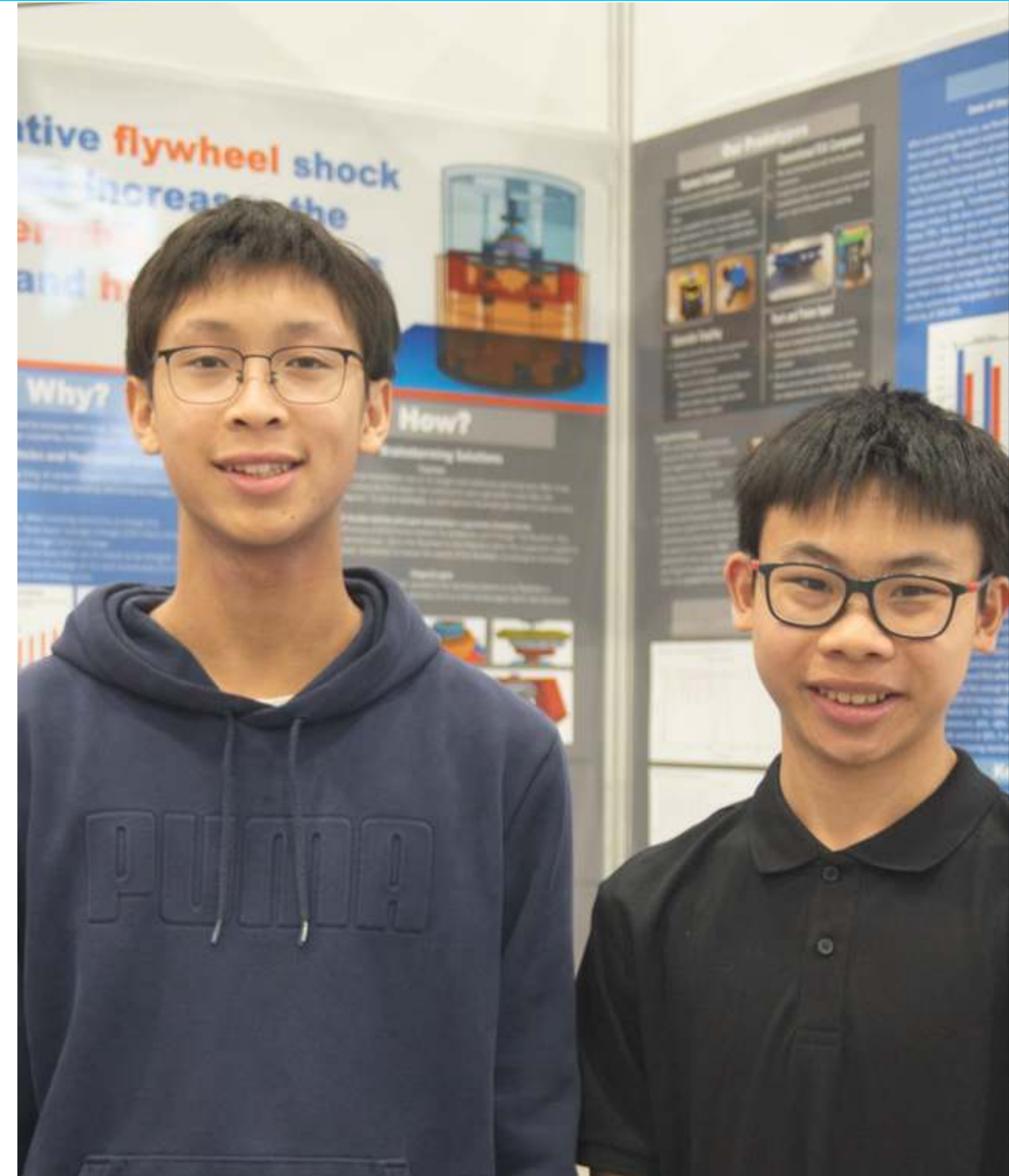


**Excellence Award - Gold**  
**Prix d'excellence - or**  
Junior

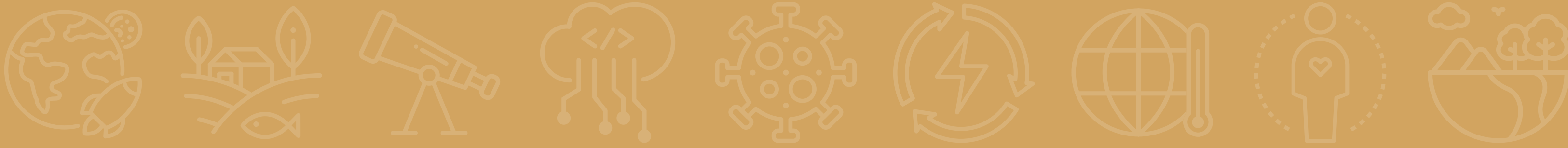
**Matt Fong**  
**William Zhou**

**Extending Mileage on EV and Hybrid Vehicles using a Ratchet and Flywheel  
Regenerative Shock Absorber**

Toronto - Ontario





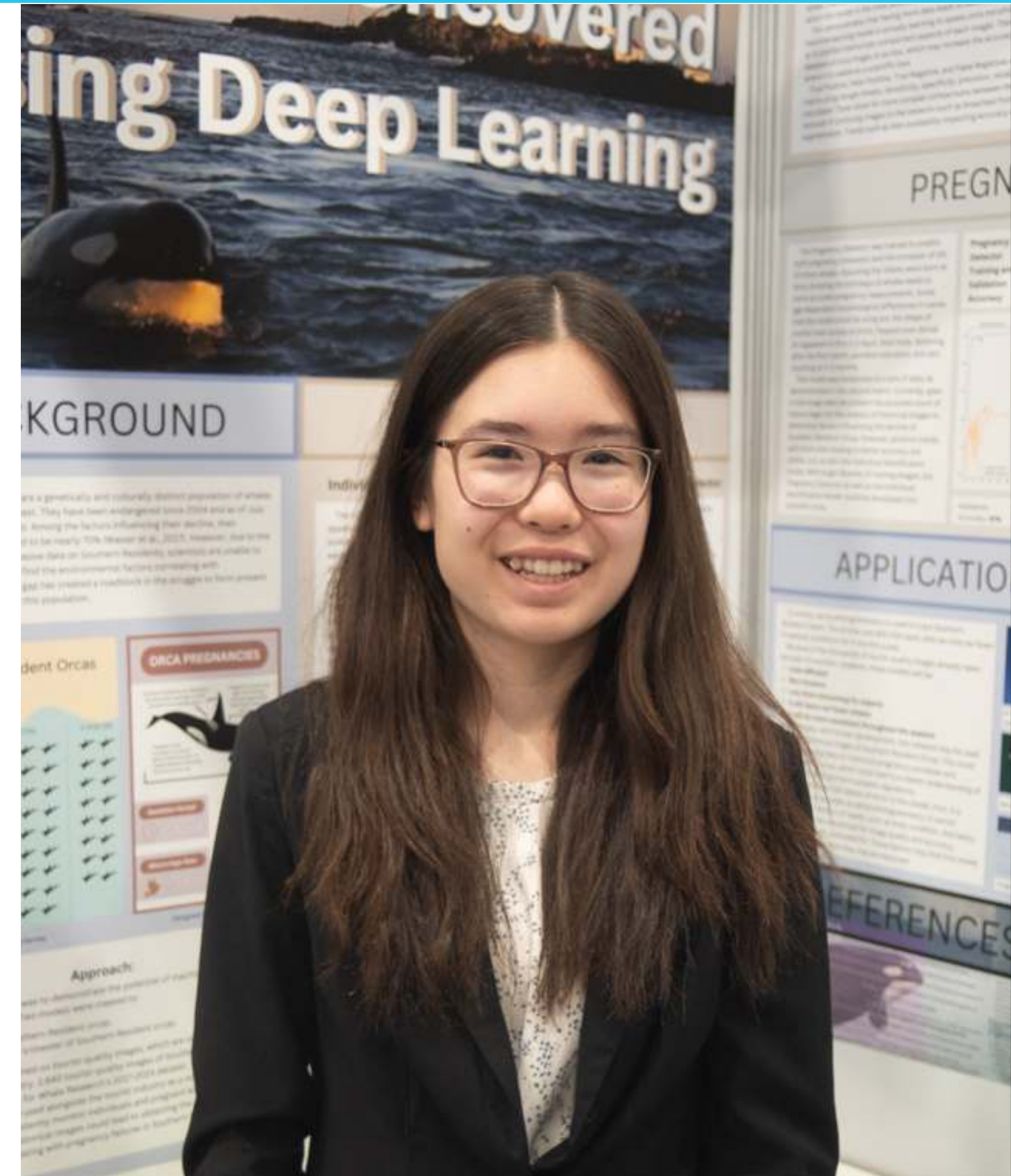


**Excellence Award - Gold**  
**Prix d'excellence - or**  
Junior

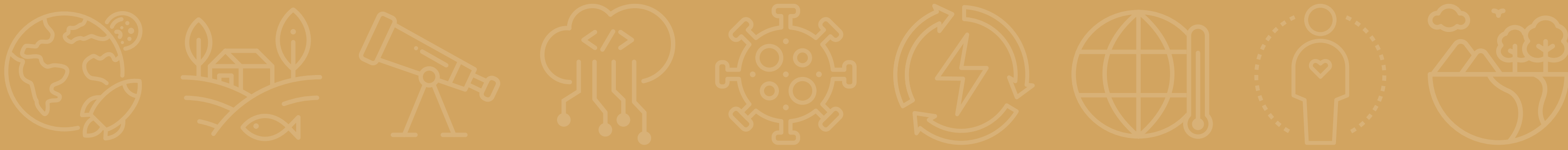
## Nara Harvey

**Using Deep Learning to Understand Endangered Orca Pregnancies**

Greater Vancouver – British Columbia







**Excellence Award - Gold**  
**Prix d'excellence - or**  
Junior

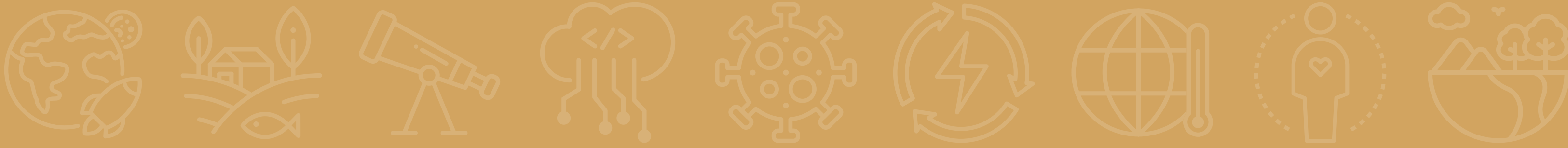
# Melrose Kinney

**Screen Time Strain - The Potential Impact on Our Eyes**

Annapolis Valley - Nova Scotia







**Excellence Award - Gold**  
**Prix d'excellence - or**  
Junior

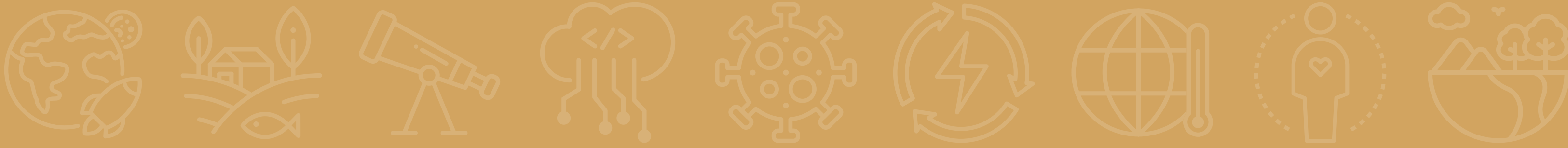
**John Neilson**

**Amelioration of Memory Through Musical Sensory Tagging**

South-East New Brunswick – New Brunswick





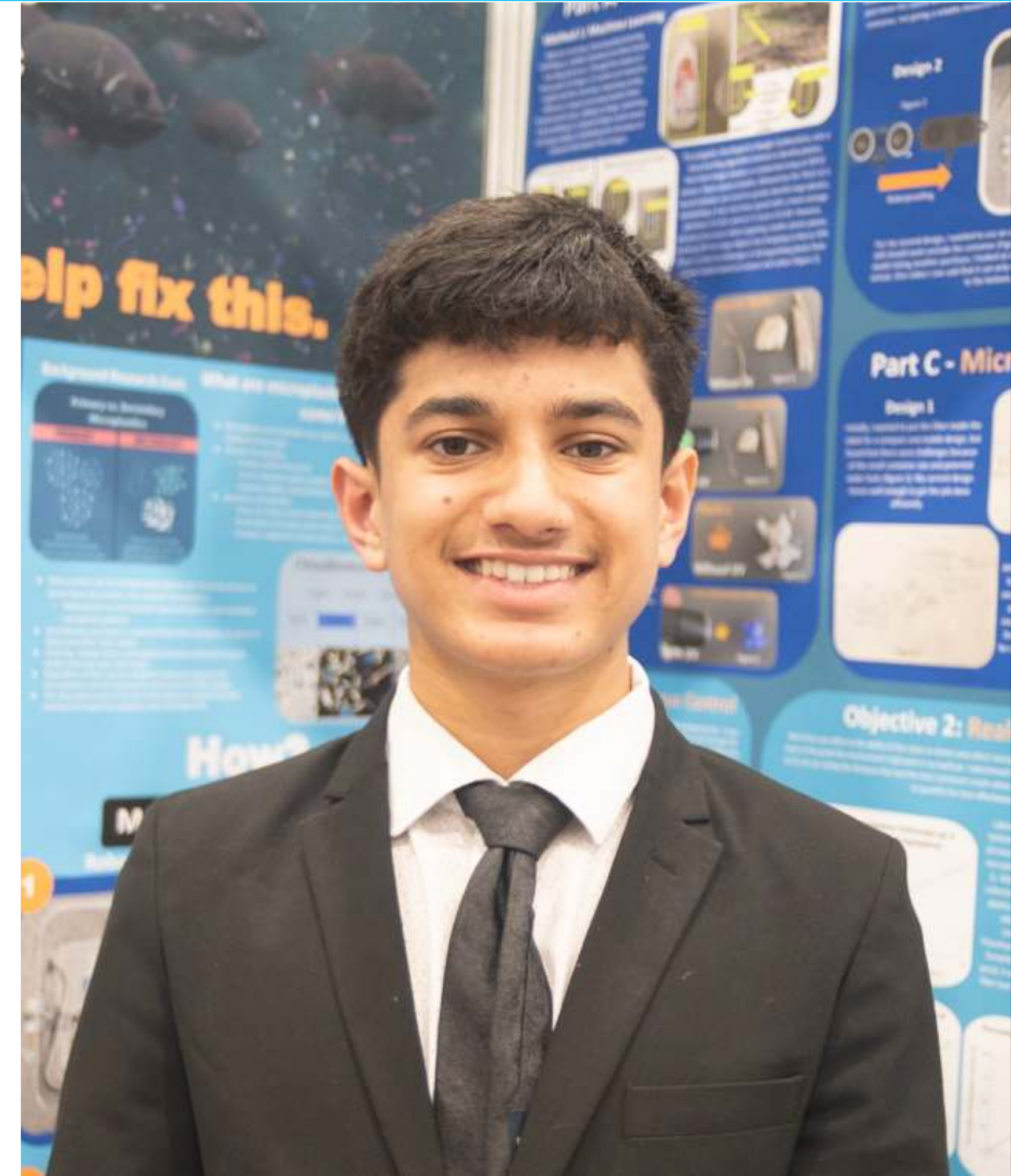


**Excellence Award - Gold**  
**Prix d'excellence - or**  
Junior

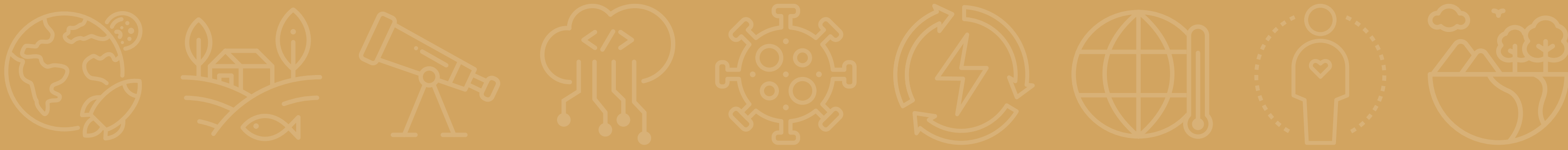
## **Aryan Sharma**

**The MicroGuard Microplastic Collector**

Calgary Youth – Alberta





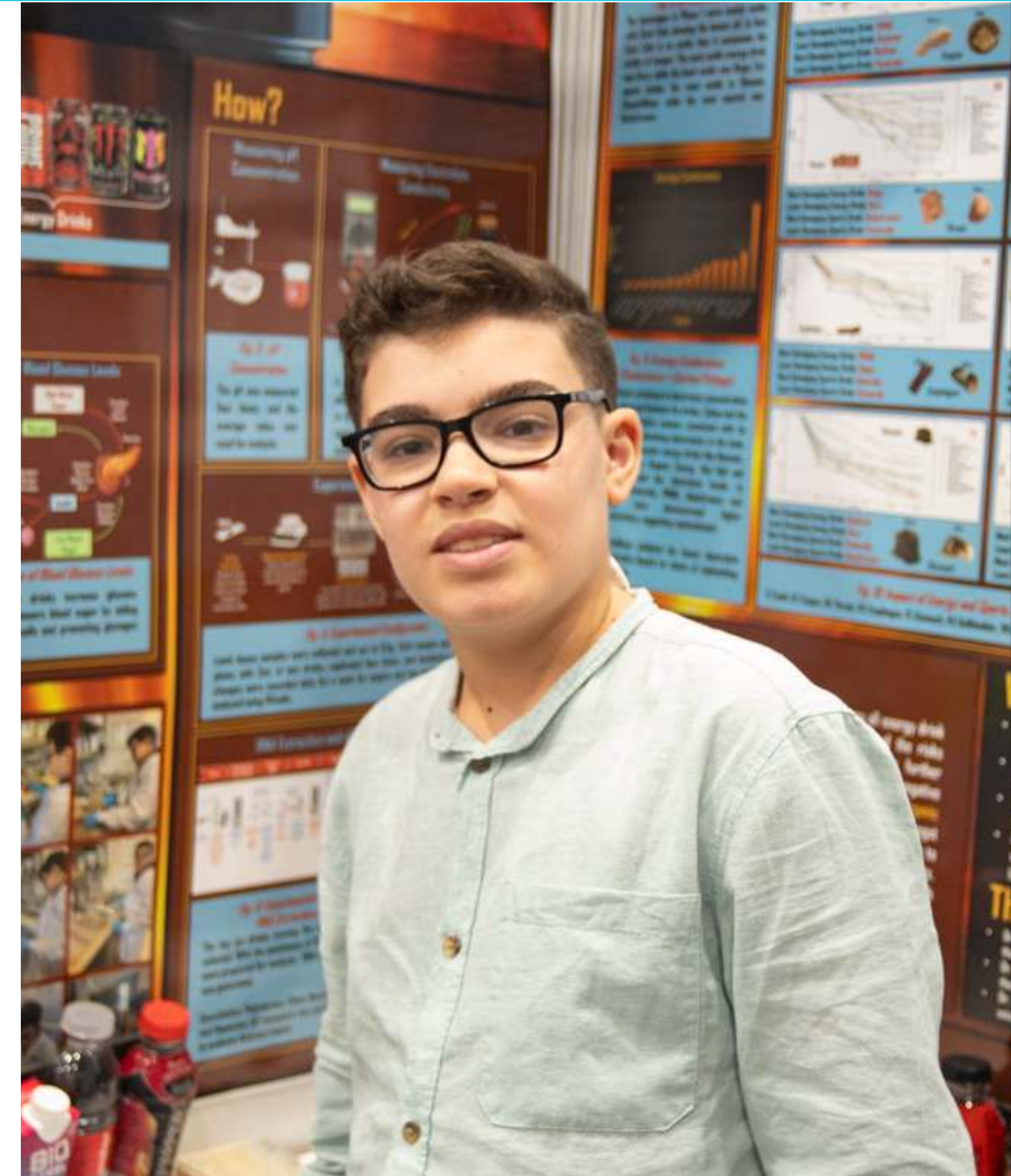


**Excellence Award - Gold**  
**Prix d'excellence - or**  
Junior

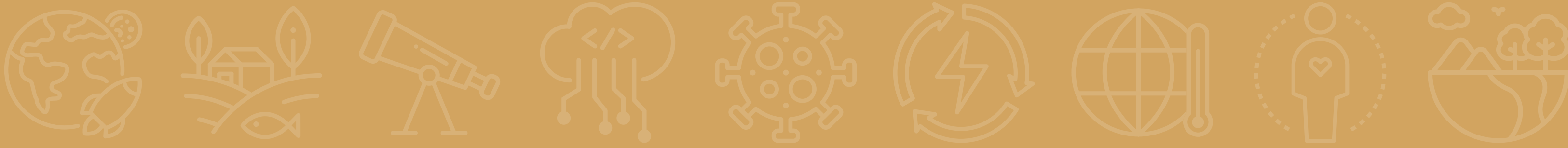
## Abraham Tassi

**The Dark Side of Energy Drinks**

Thames Valley – Ontario







**Excellence Award - Gold**  
**Prix d'excellence - or**  
Junior

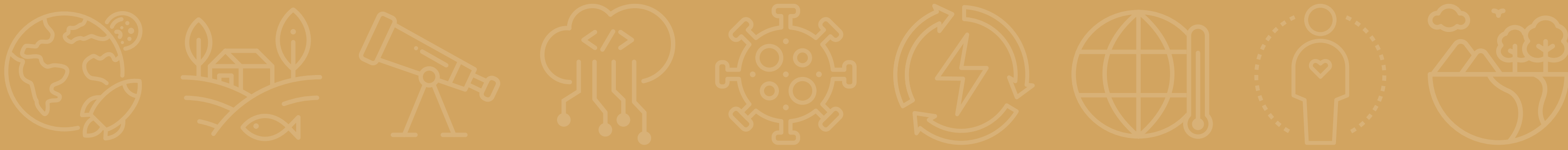
## Oscar Weerasinghe

**Breakfast on the Brain**

Bluewater – Ontario







**Excellence Award - Gold**  
**Prix d'excellence - or**  
Intermediate / Intermédiaire

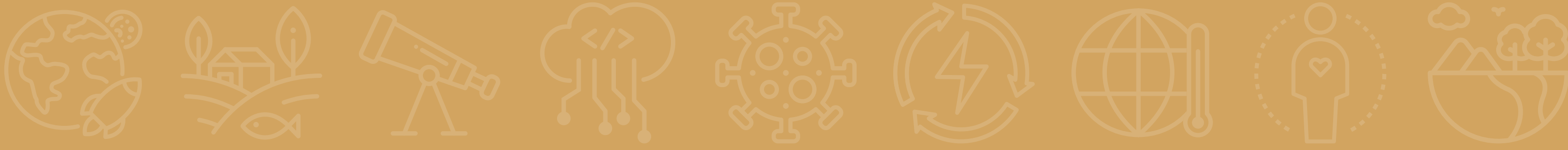
**Joy Akinkunmi**

**Pill Smart 2.0**

Canadian Black Scientists Network Youth







**Excellence Award - Gold**

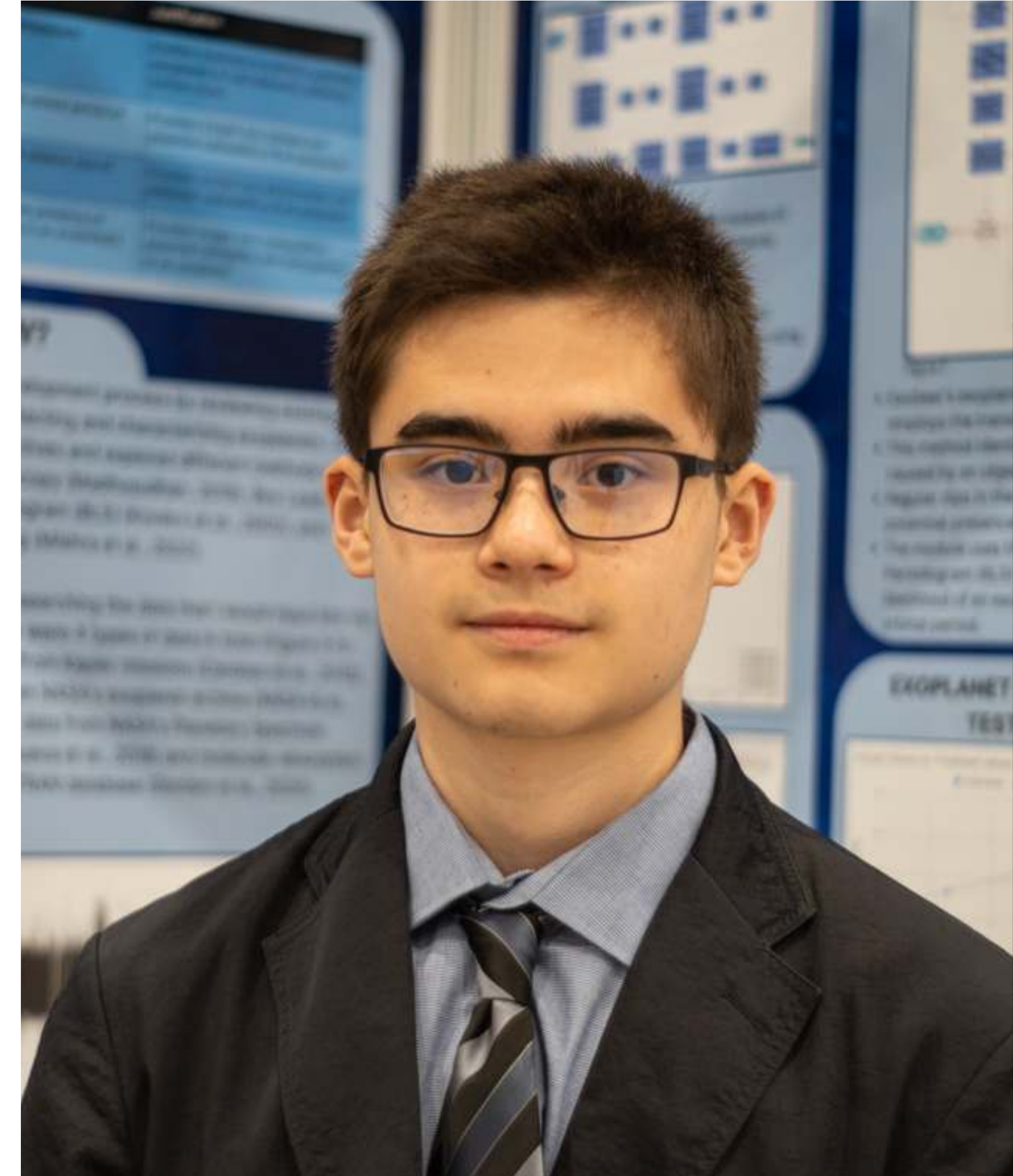
**Prix d'excellence - or**

Intermediate / Intermédiaire

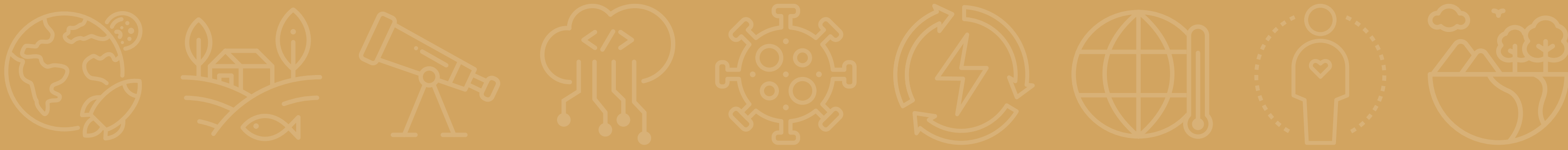
## **Tristan Butcher**

**ExoSeer: A Comprehensive Algorithm For Exoplanet Analysis**

Waterloo-Wellington – Ontario





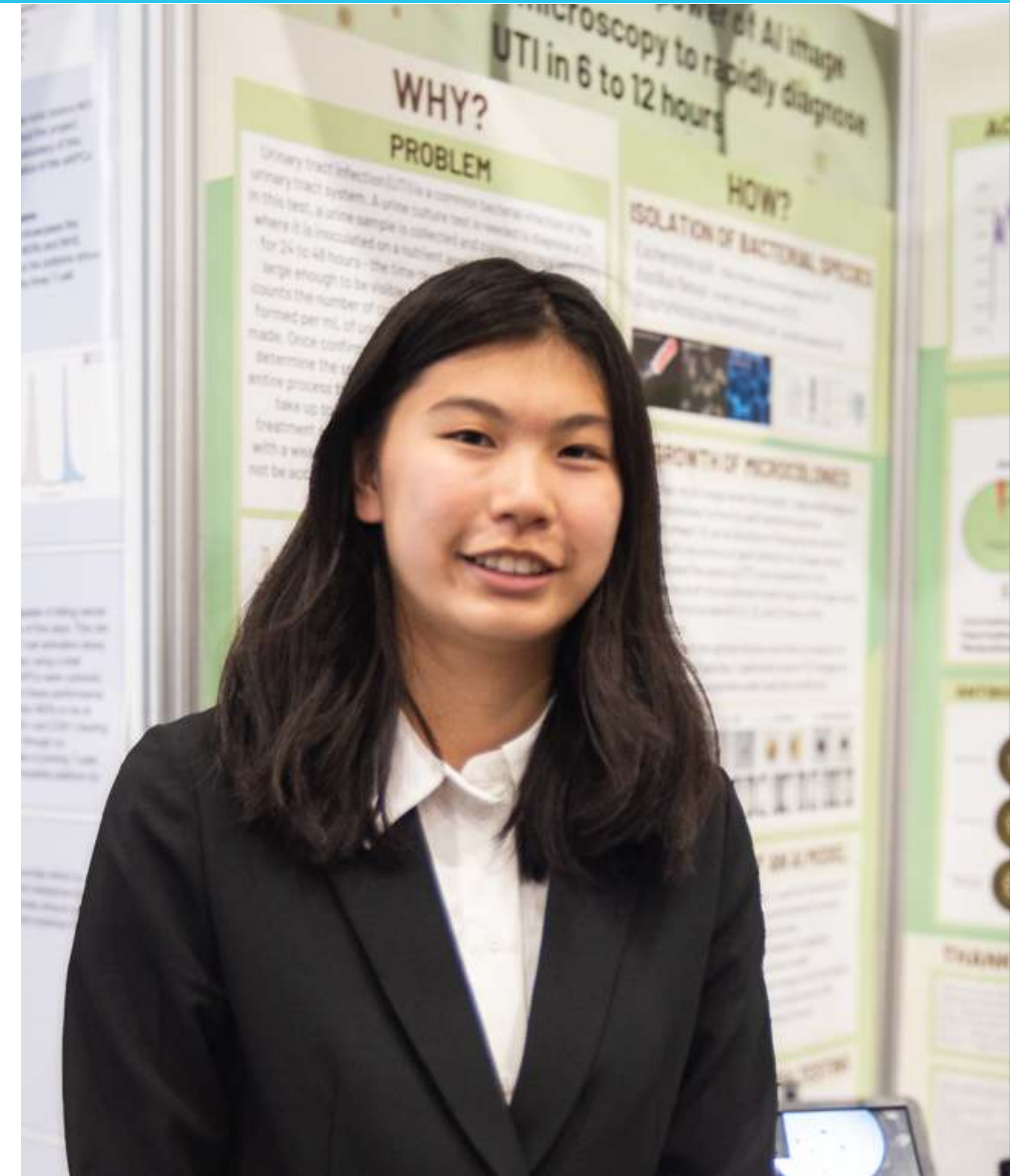


**Excellence Award - Gold**  
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Intermediate / Intermédiaire

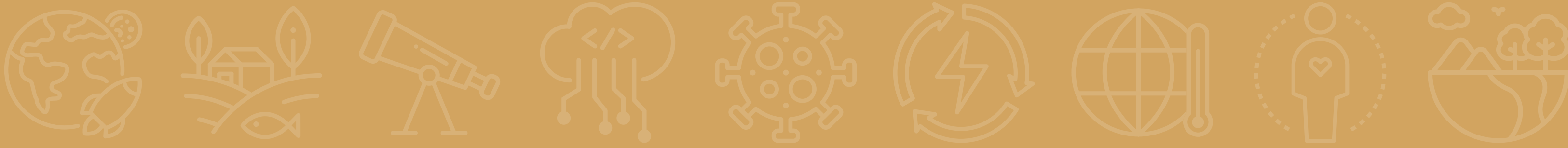
## **Caroline Chan**

**UTI-Alert: Harnessing AI Technology for Rapid Urinary Tract Infection Detection**

Toronto – Ontario





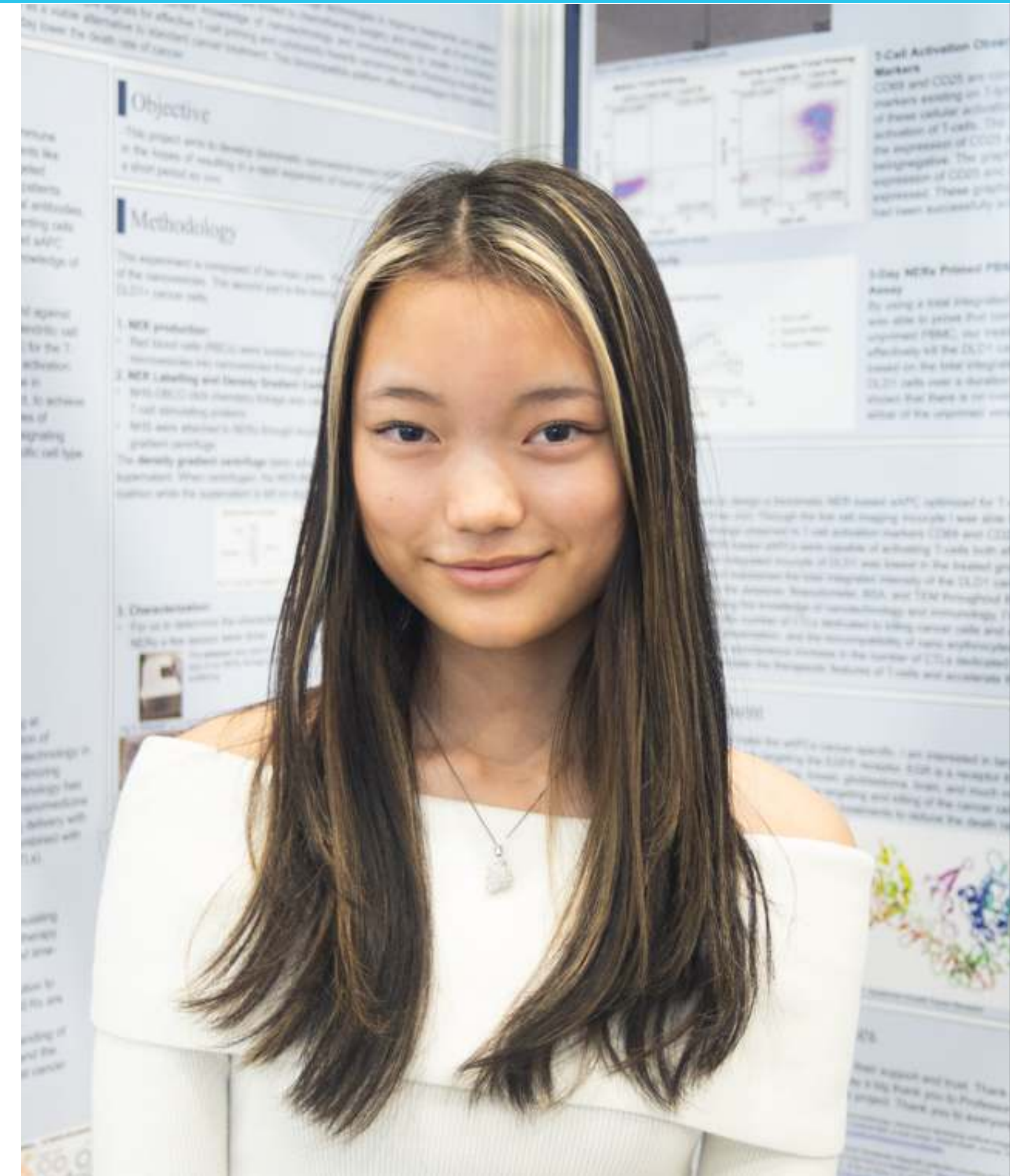


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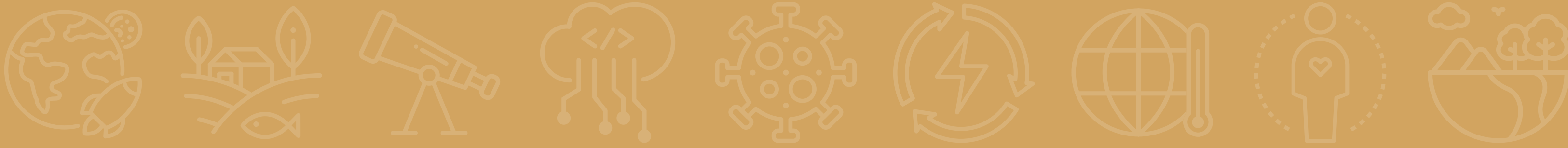
**Kathy Han**

**Designing Biomimetic Nanovesicles for Cancer Treatment**

Saskatoon - Saskatchewan







**Excellence Award - Gold**

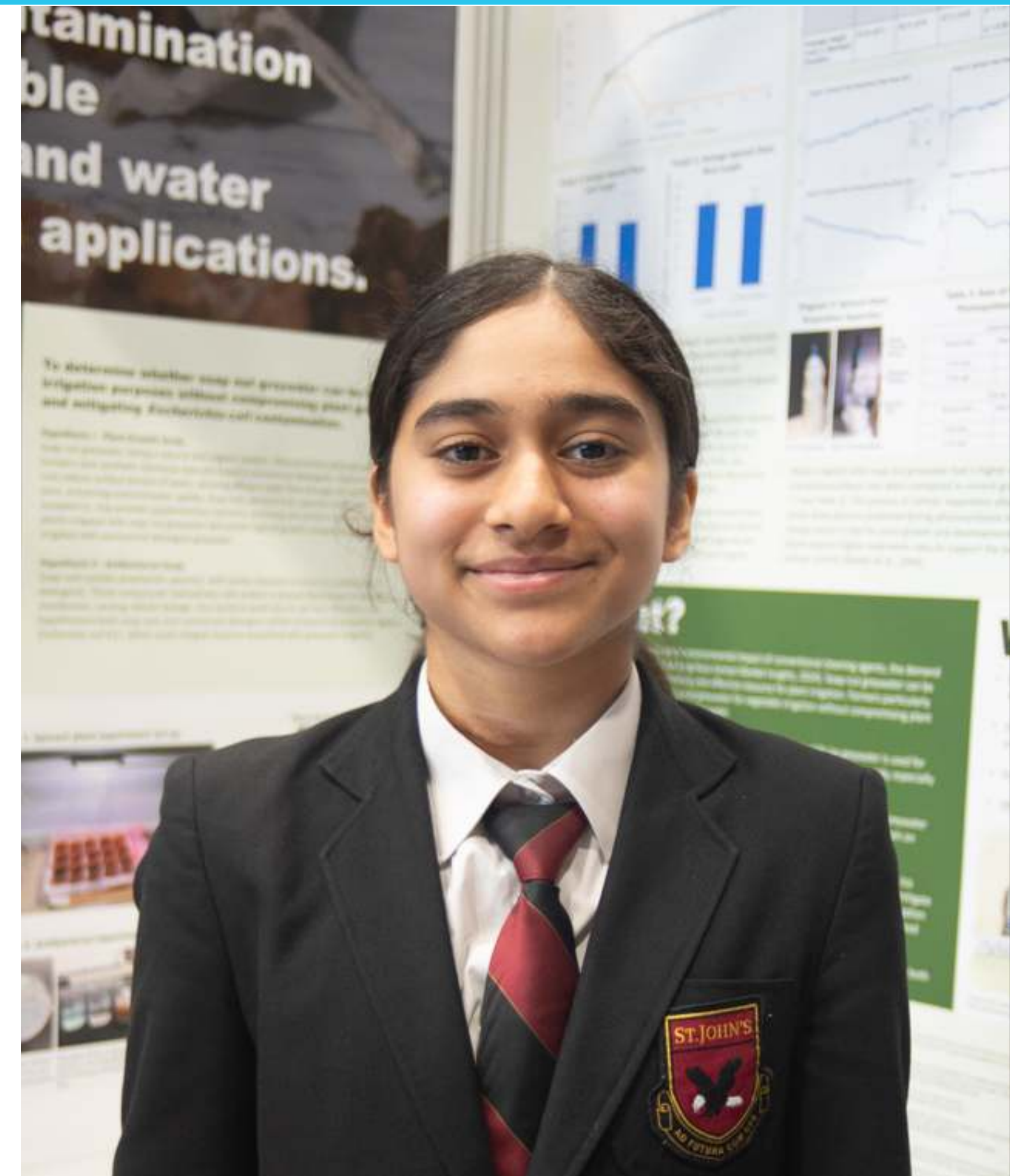
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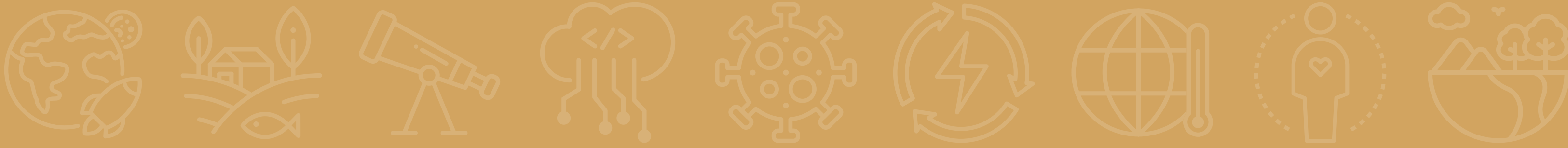
## Tanvir Mundra

**Reviving Resources: Harnessing Soap Nut Greywater for Sustainable Plant Growth**

Greater Vancouver – British Columbia







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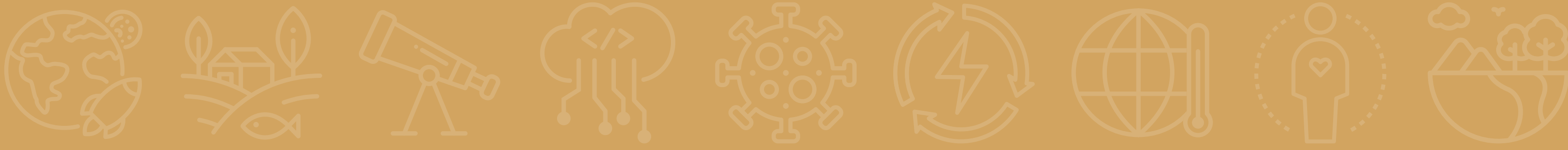
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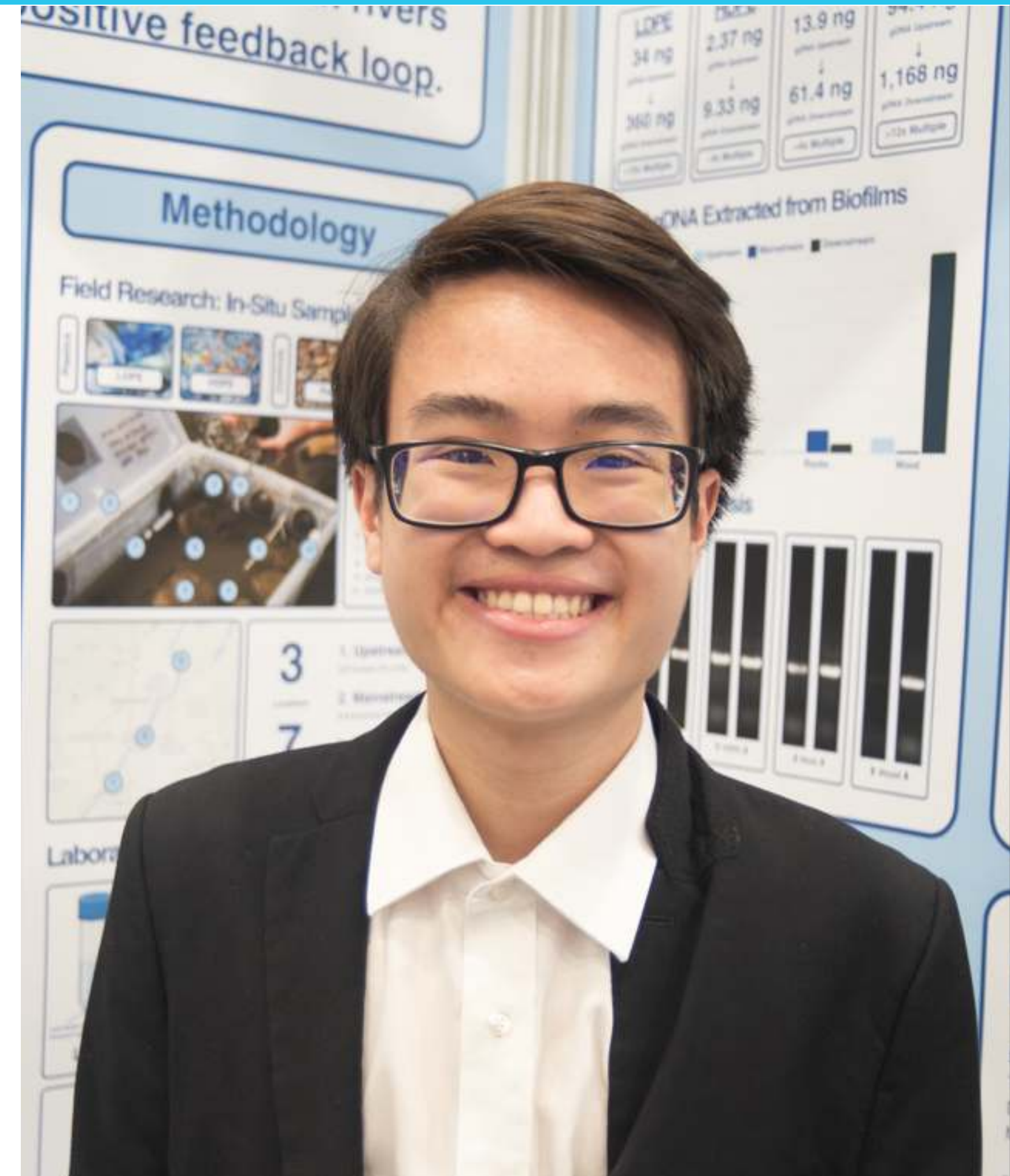
## Thông Quách

**Project PolyQuant: Quantifying Genomic DNA from Biofilms on Polyethylene in an Urban River Ecosystem**

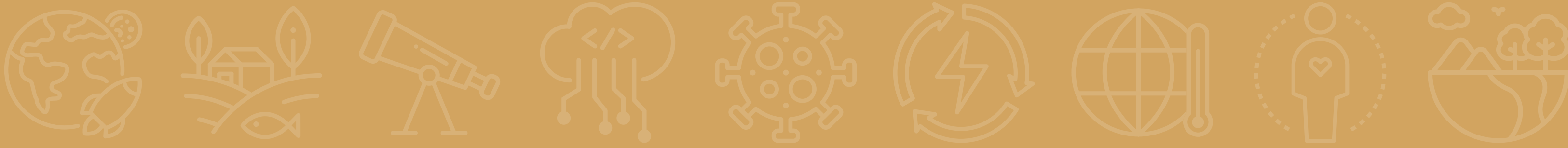
Saskatoon – Saskatchewan



Youth Science Canada  
Sciences jeunesse Canada







**Excellence Award - Gold**

**Prix d'excellence - or**

Intermediate / Intermédiaire

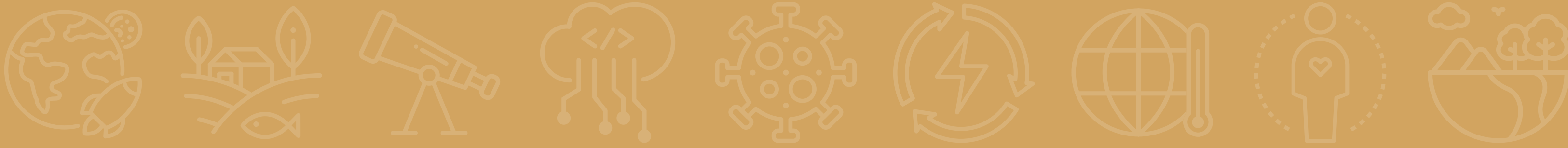
## **Bram St. Peters**

**How human biosolids can be used in lunar soils to optimize food production on the moon**

Halifax – Nova Scotia







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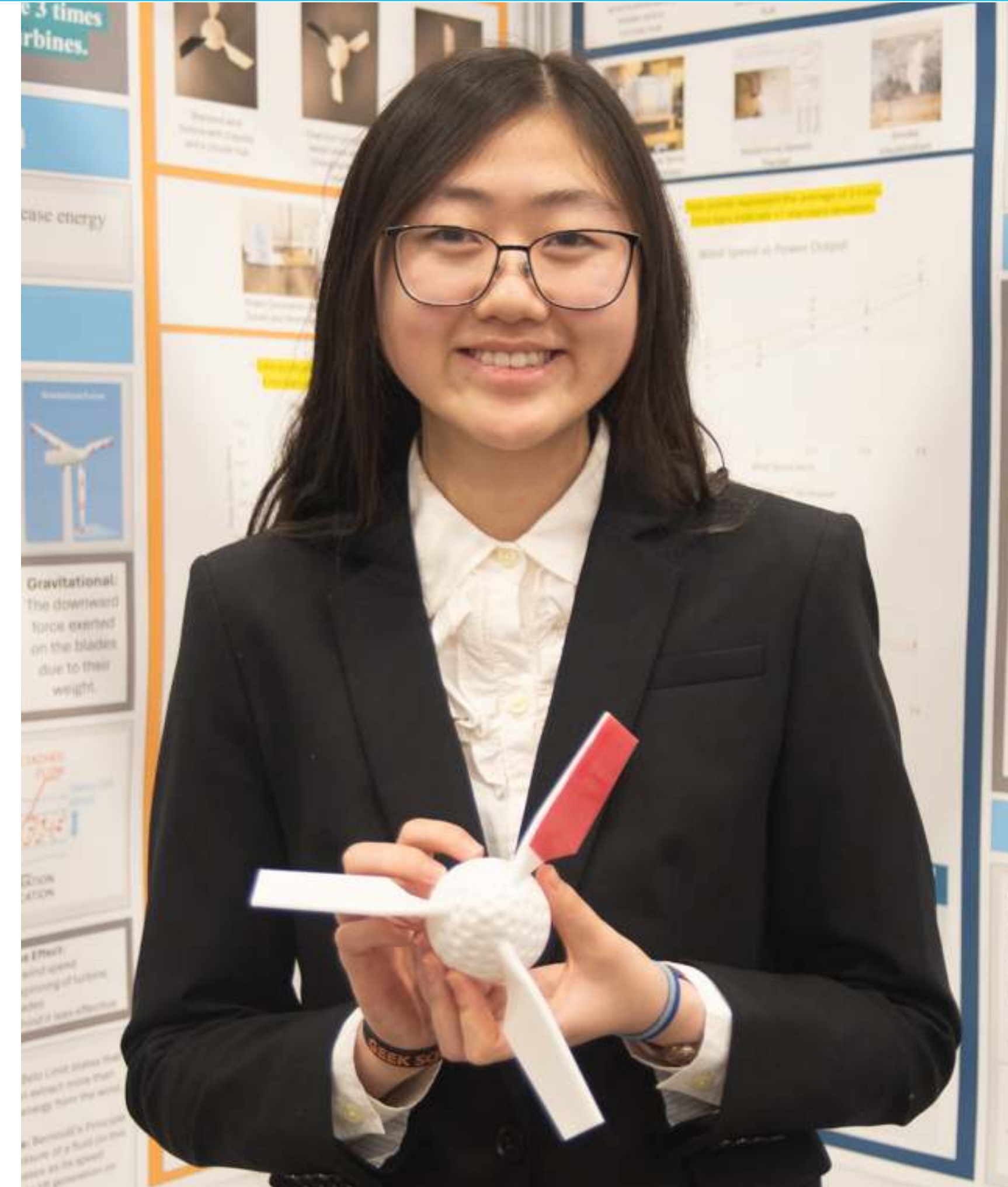
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**Designing a More Efficient Wind Turbine**

Vancouver Island - British Columbia



Youth Science Canada  
Sciences jeunesse Canada





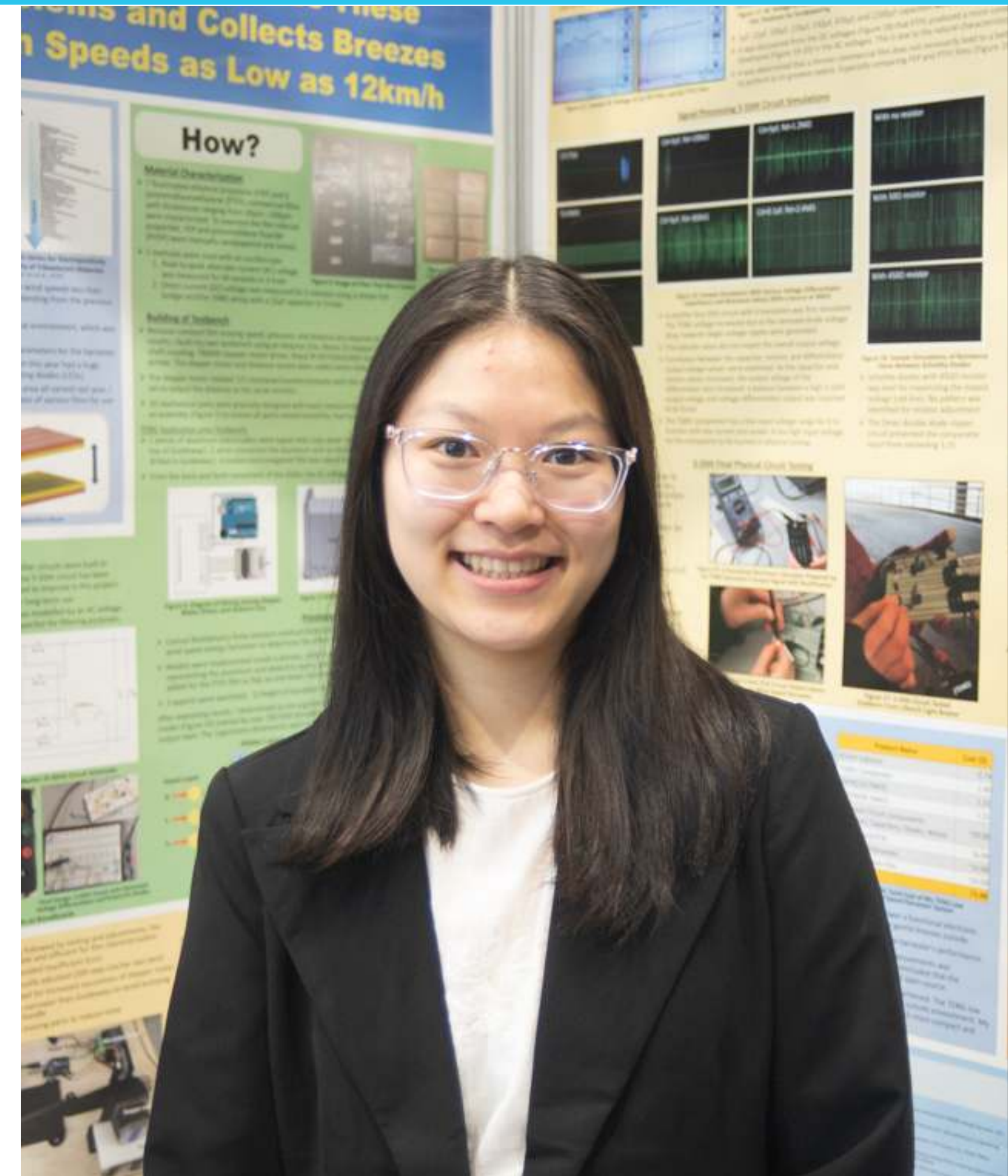


**Excellence Award - Gold**  
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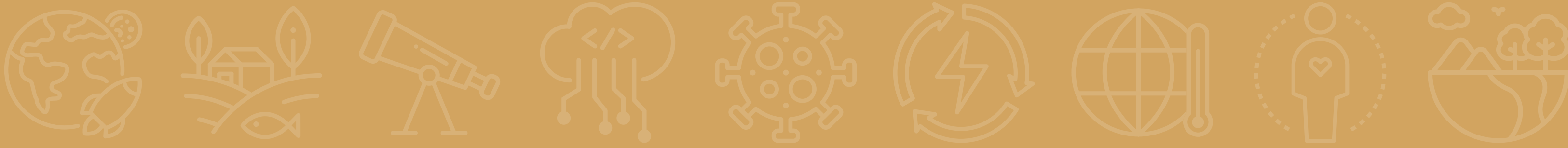
**Sophia Zhang**

**Optimization of Novel Triboelectric Nanogenerators for Wind Energy Harvesting at Low Speeds**

Eastern Newfoundland – Newfoundland & Labrador





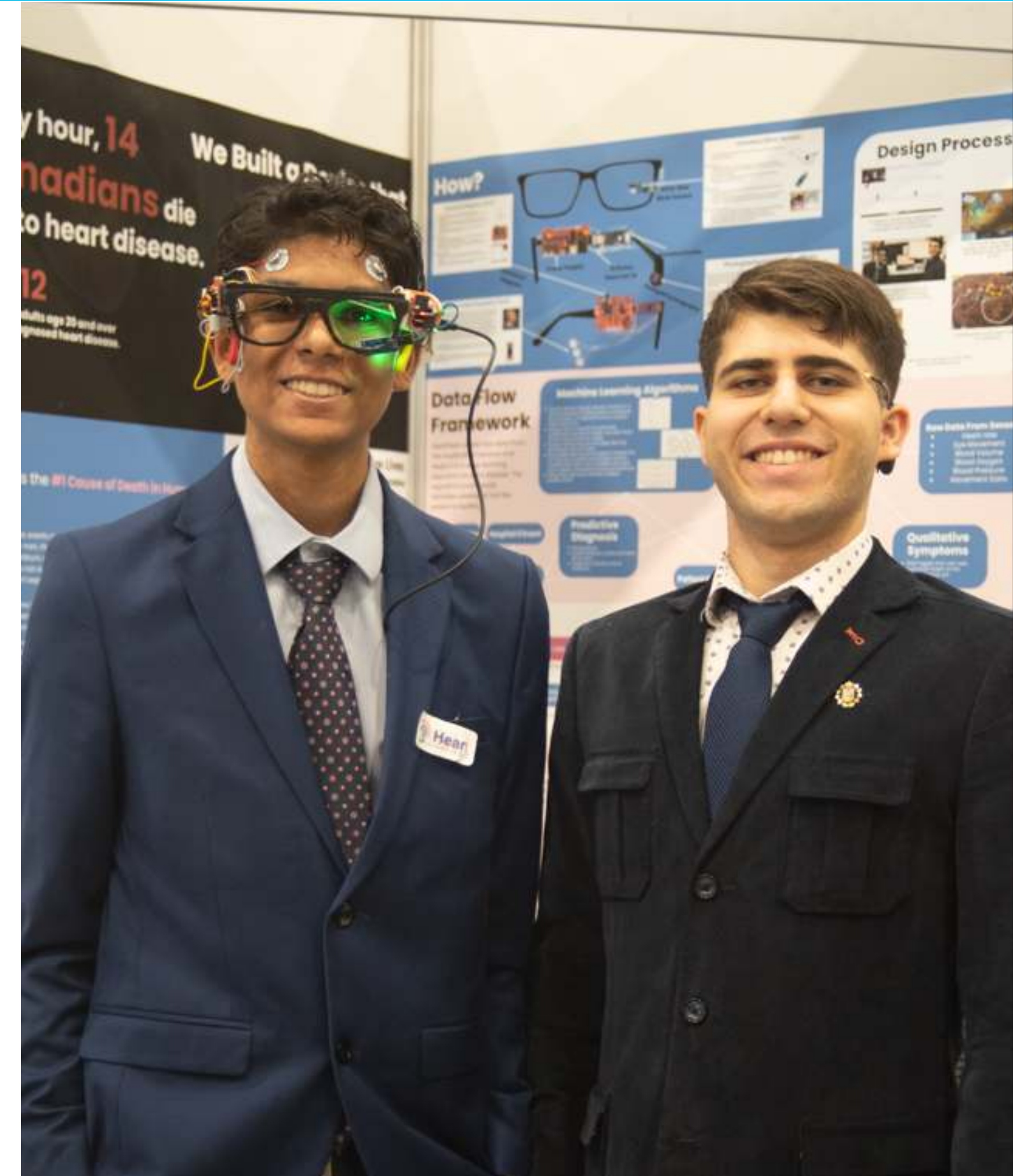


**Excellence Award - Gold**  
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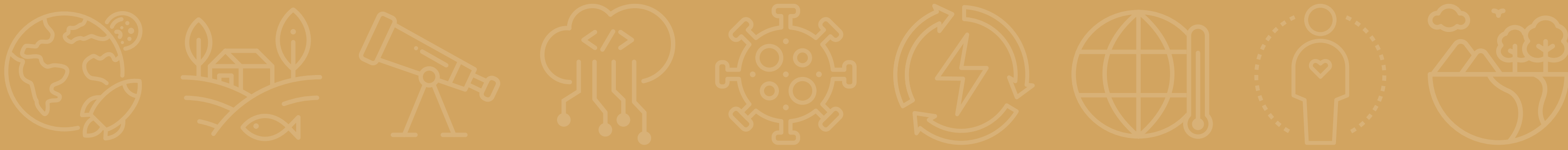
# Saras Agrawal Rateb Ajamieh

**HeartHear: A Machine Learning Powered Ear-Wearable for Cardiovascular Disease Detection & Prediction**

Edmonton – Alberta







**Excellence Award - Gold**  
**Prix d'excellence - or**  
Senior / Sénior

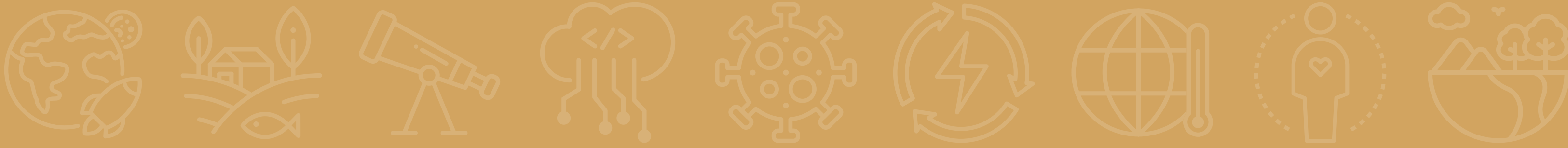
## Noah Bryan

**Is the water safe to drink? The rapid test is the missing link!**

Canadian Black Scientists Network Youth







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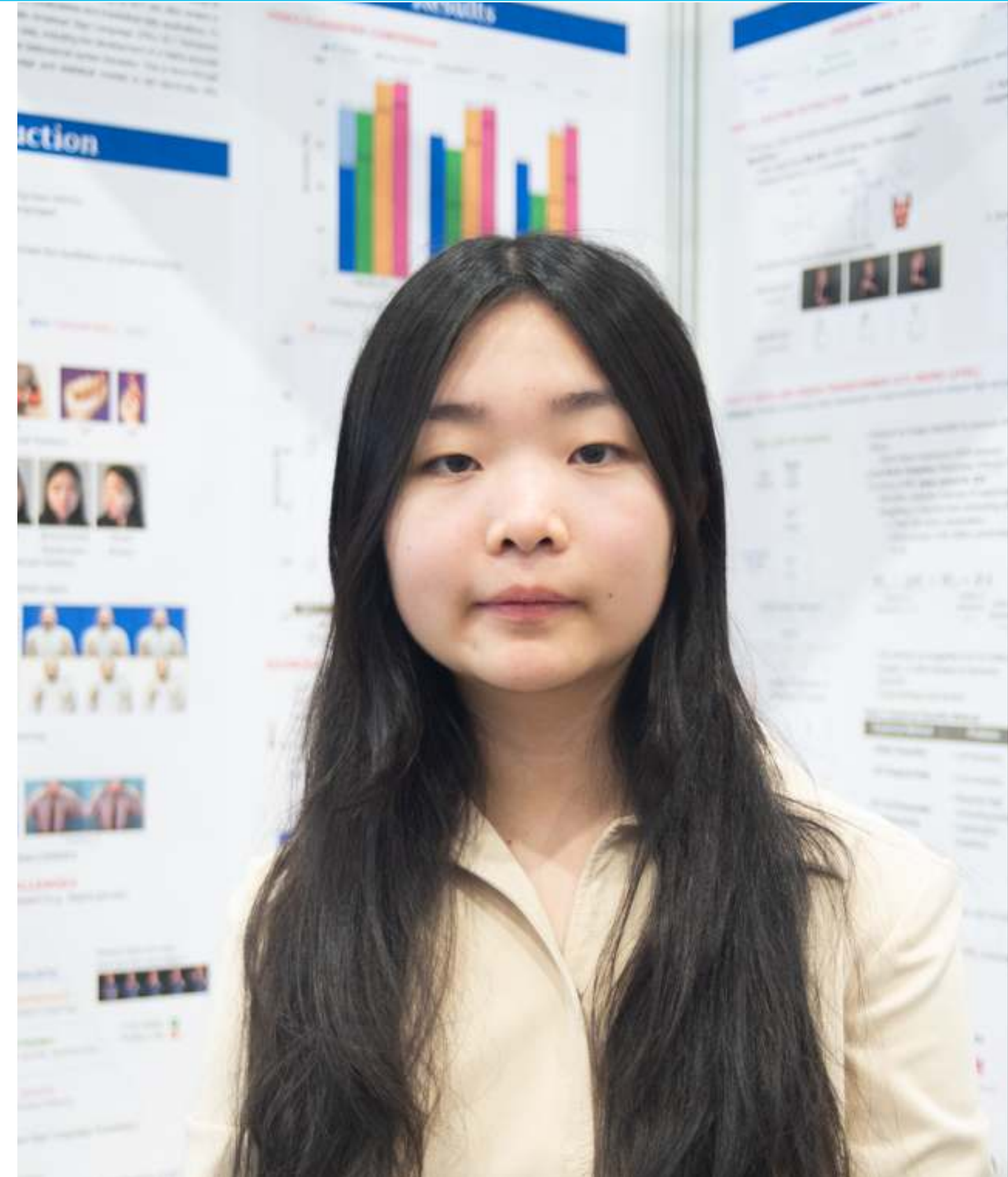
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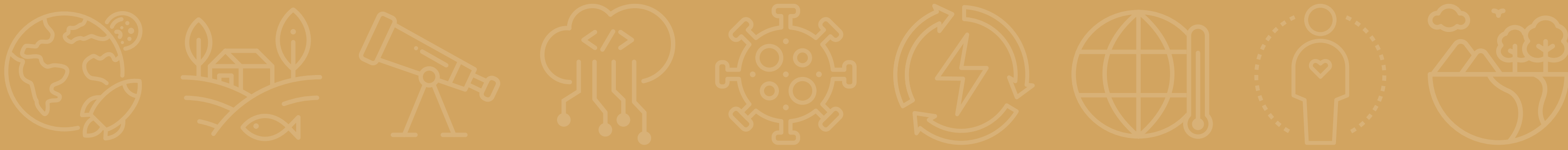
**Angela Cao**

**S2S: AI-Powered Translation Between Sign and Spoken Languages**

Greater Vancouver – British Columbia







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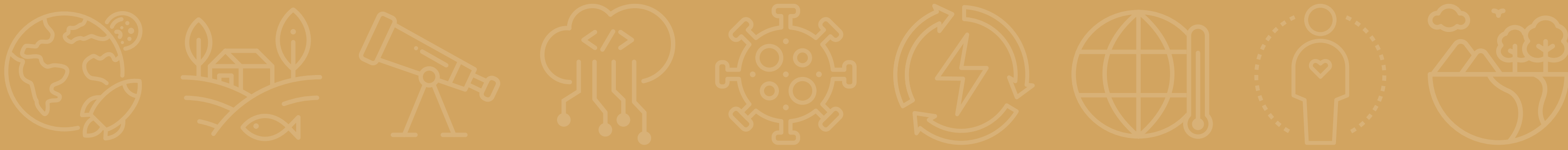
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Waterloo-Wellington – Ontario





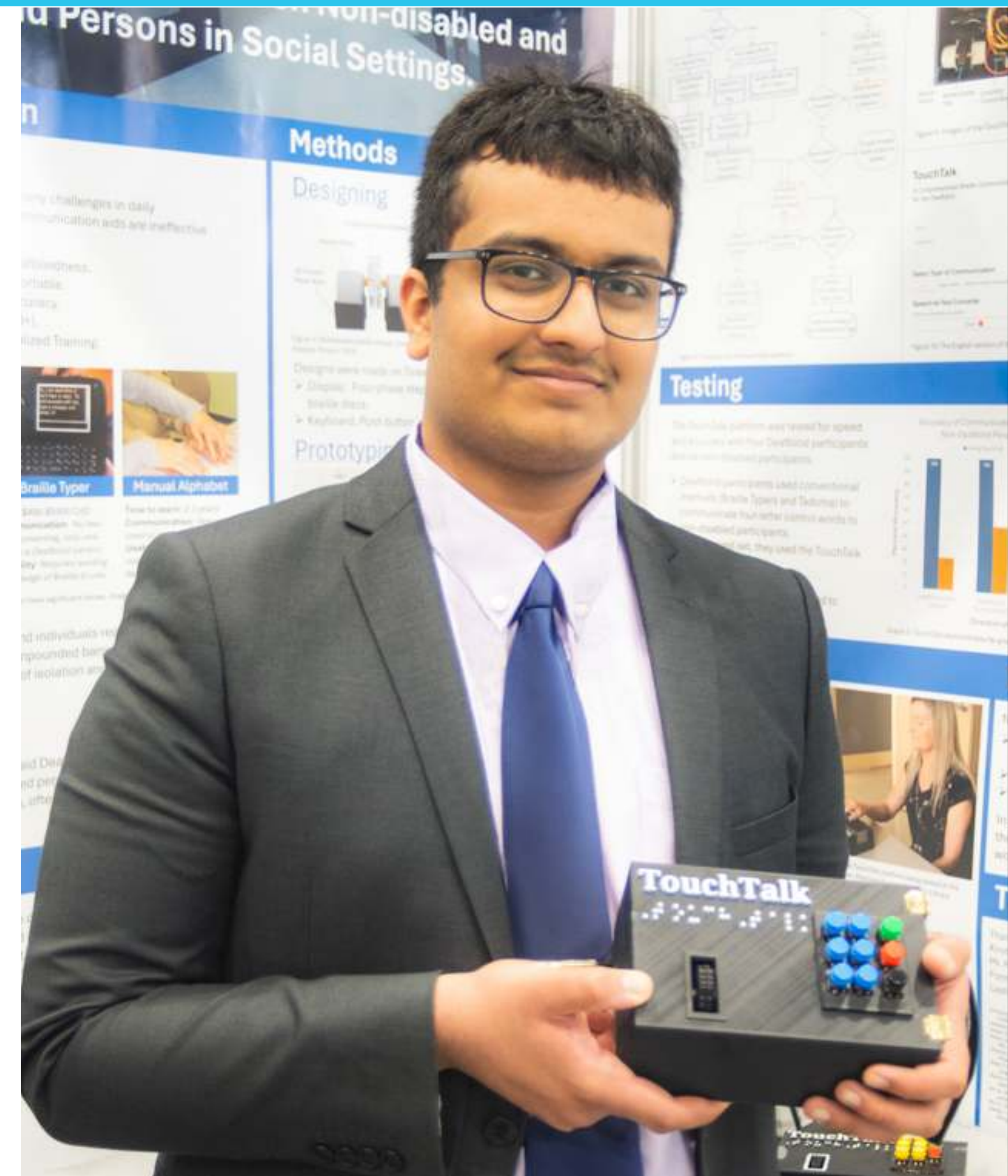


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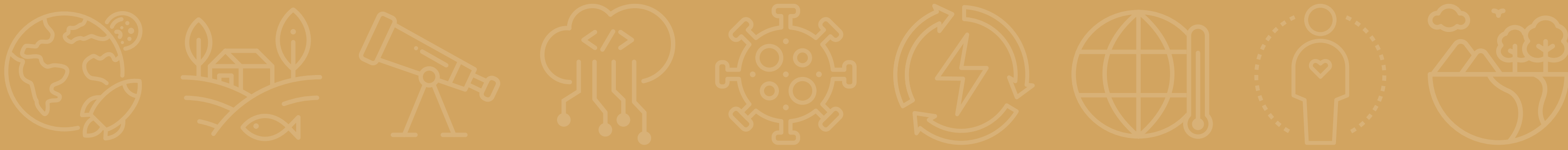
**Joti Gokaraju**

**TouchTalk: A Novel Braille Communication Platform for the Deafblind**

Saskatoon – Saskatchewan







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Senior / Sénior

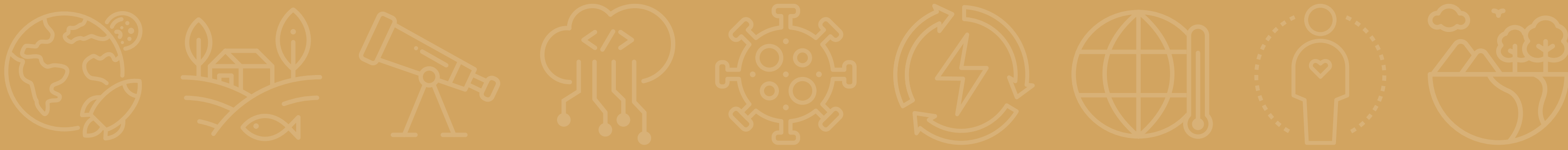
## Veronica Guo

**A Novel, Cost-Effective Biological Photovoltaic for Wastewater Treatment**

Greater Vancouver – British Columbia







**Excellence Award - Gold**  
**Prix d'excellence - or**  
Senior / Sénior

# Dolev Klein Harari

**The Schizophrenia Software Solution**

United Counties – Ontario







**Excellence Award - Gold**

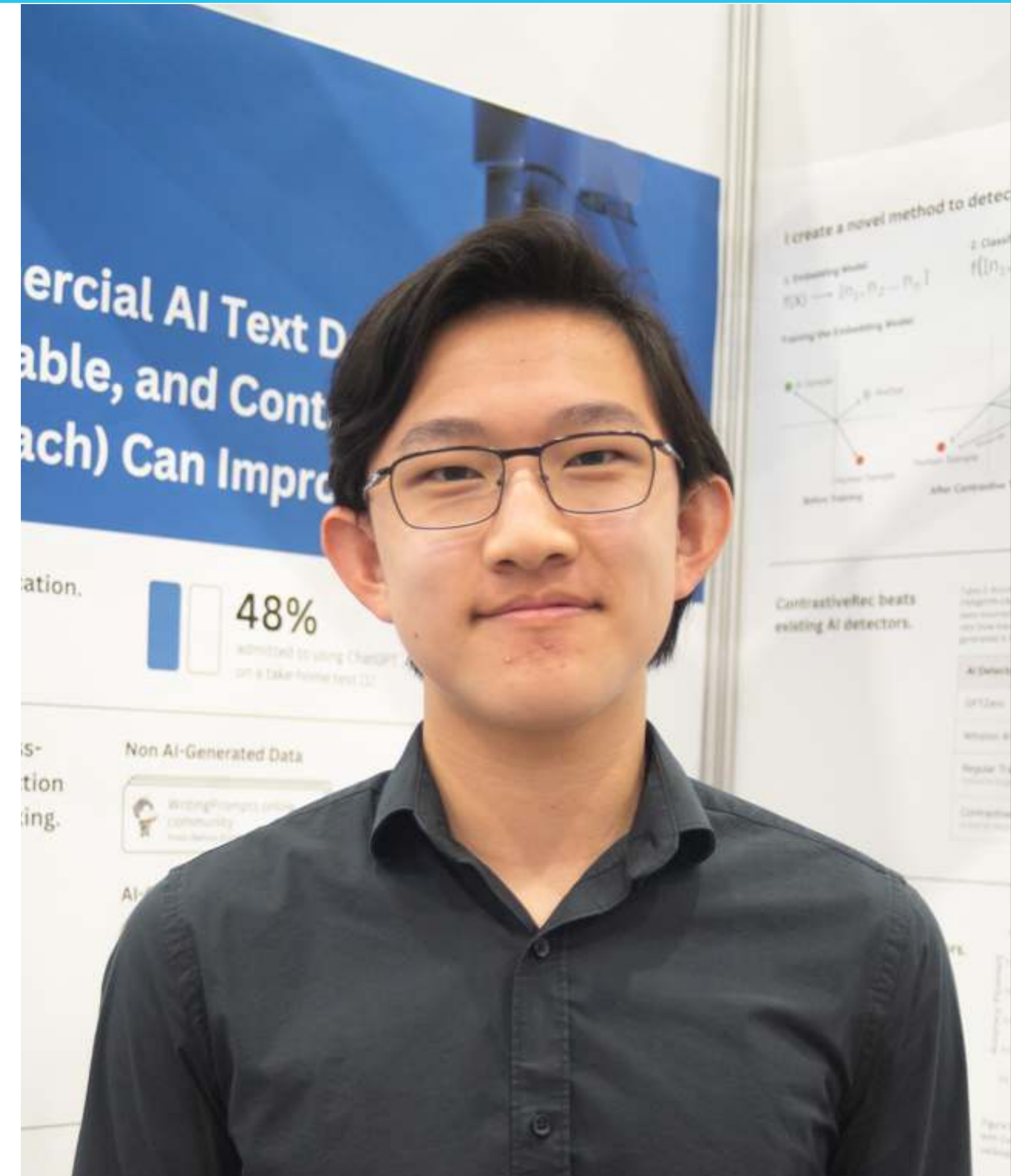
**Prix d'excellence - or**

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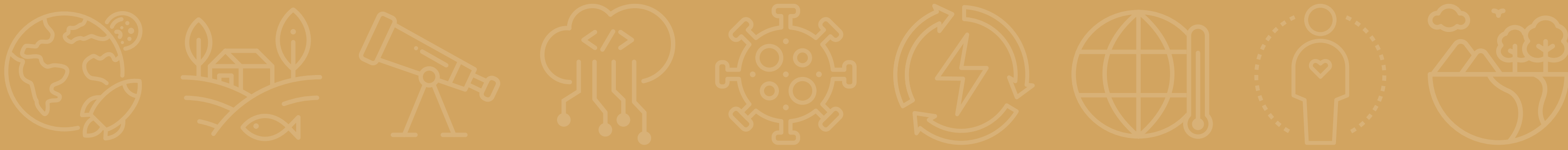
## Jonathan Li

**Can We Trust AI Text Detectors? Exposing Limitations and Proposing Fixes**

Frontenac, Lennox & Addington – Ontario





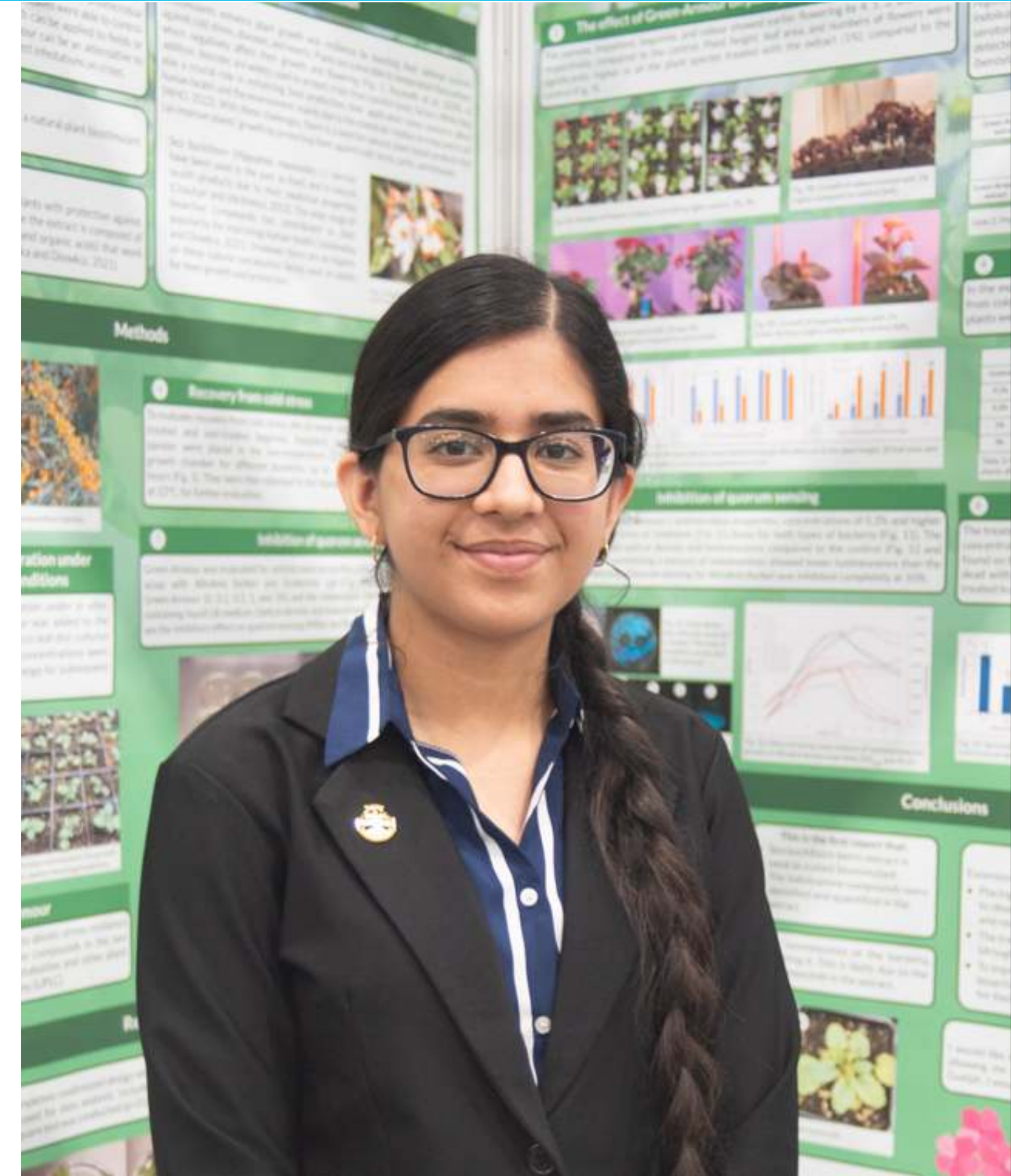


**Excellence Award - Gold**  
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Senior / Sénior

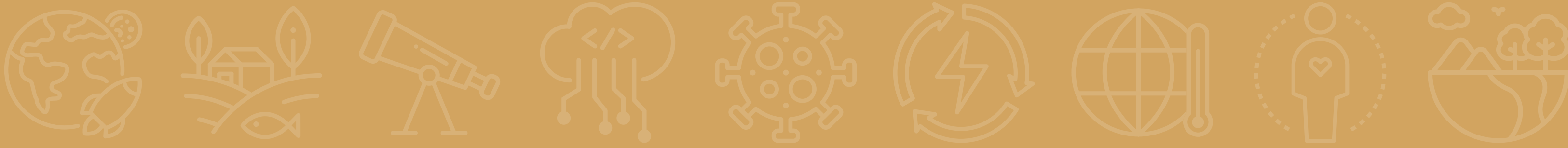
## **Roocha Shukla**

**Green-Armour: A Novel Plant Biostimulant**

Waterloo-Wellington – Ontario





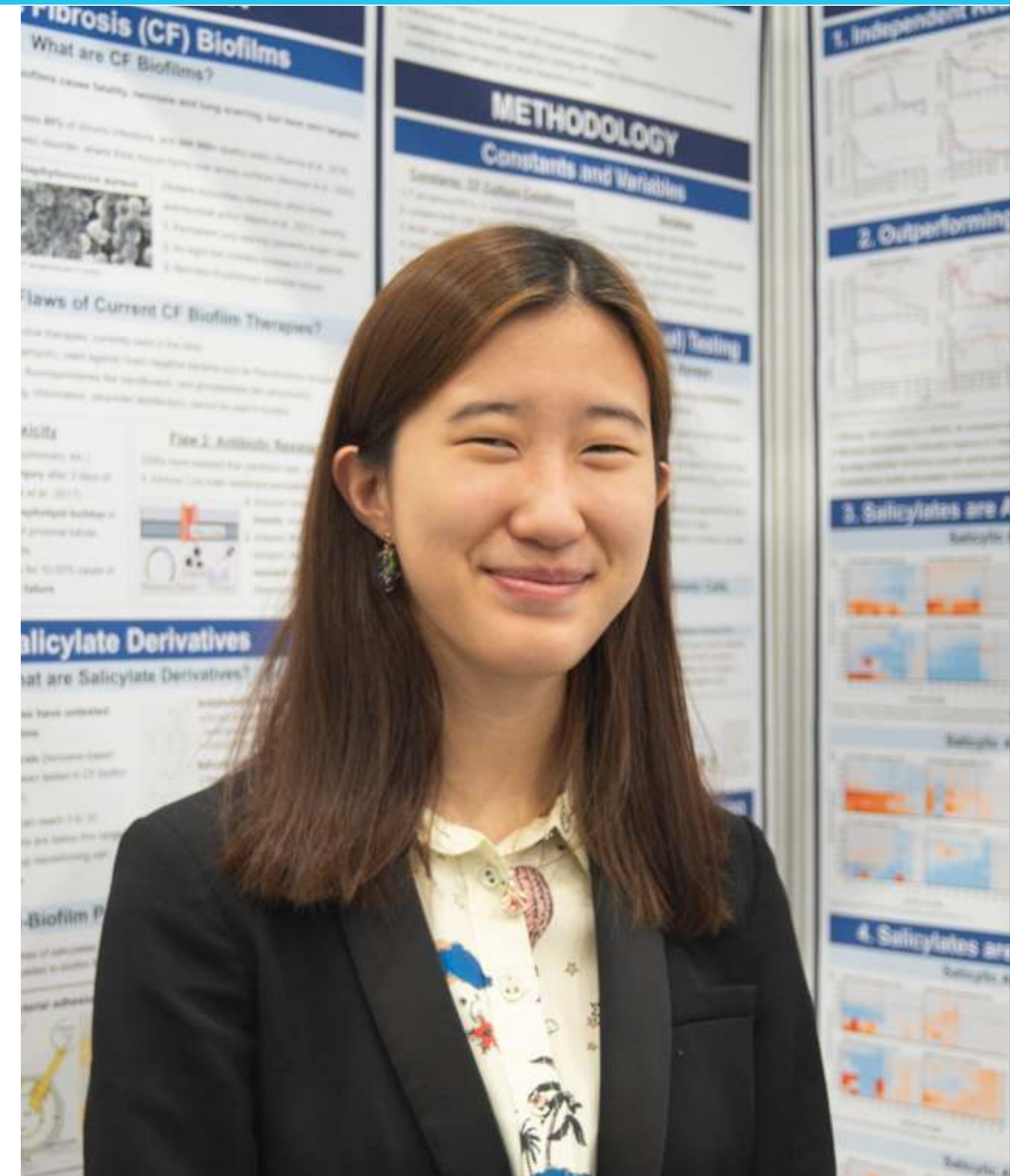


**Excellence Award - Gold**  
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Senior / Sénior

**Ann Wang**

**Eradicating Cystic Fibrosis Biofilms by a Novel Non-Toxic, Multi-Pathway Salicylate Therapy**

Greater Vancouver – British Columbia







## Challenge Award - Aerospace

## Prix du défi - Aérospatiale

Junior

# Amelia Pletsch

## Life on Mars: Germinating Edible Plants in Mars Regolith

Waterloo-Wellington – Ontario







## Challenge Award - Aerospace

## Prix du défi - Aérospatiale

Intermediate / Intermédiaire

# Bram St. Peters

How human biosolids can be used in lunar soils to optimize food production on the moon

Halifax – Nova Scotia







**Challenge Award - Aerospace**

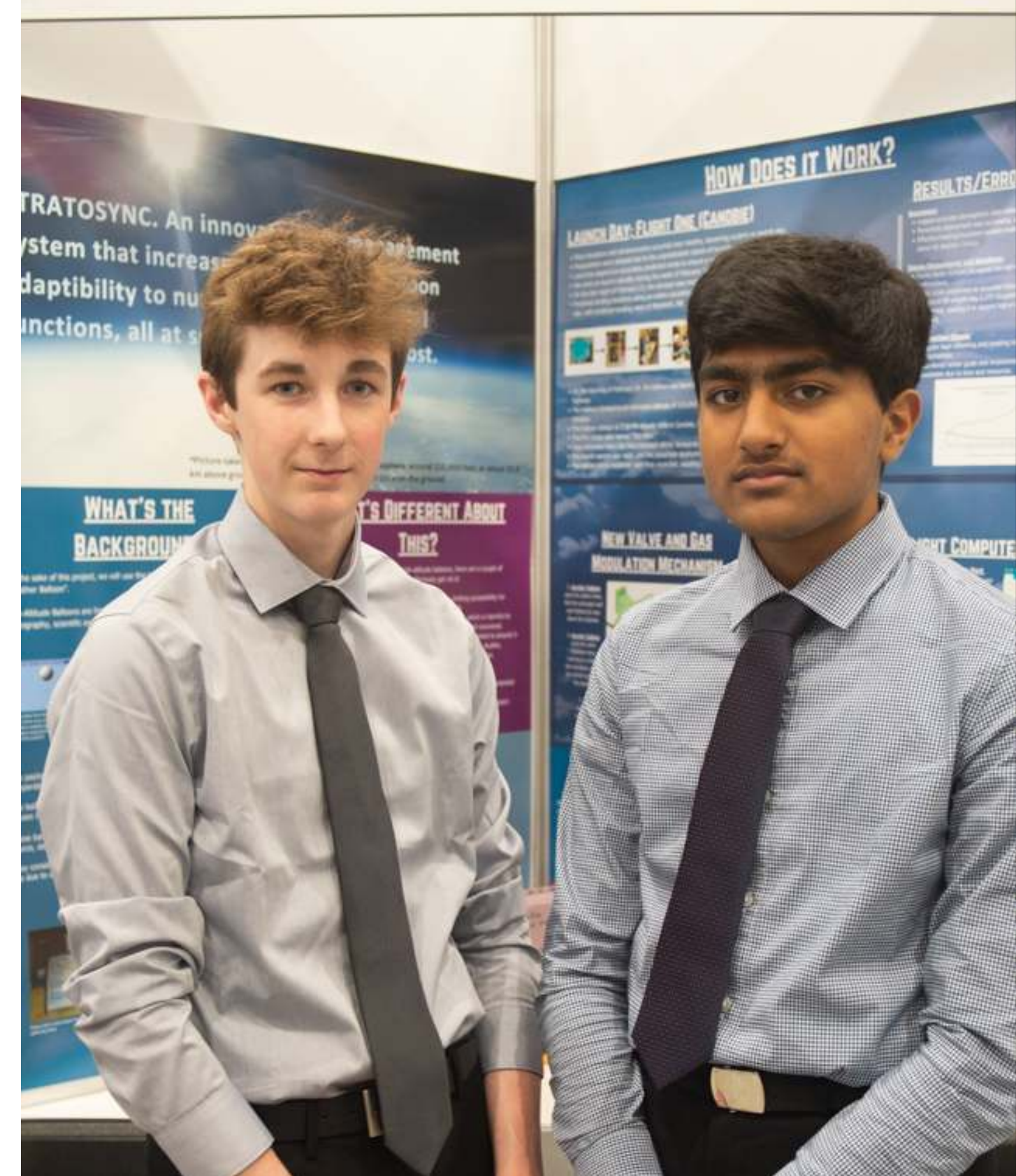
**Prix du défi - Aérospatiale**

Senior / Sénior

# Jack D'Entremont Onkit Saha

**Stratosync**

North-West New Brunswick – New Brunswick







## Challenge Award - Agriculture, Fisheries and Food Prix du défi - Agriculture, pêche et alimentation

Junior

# Sarah Bykewich

Electroculture

Edmonton - Alberta





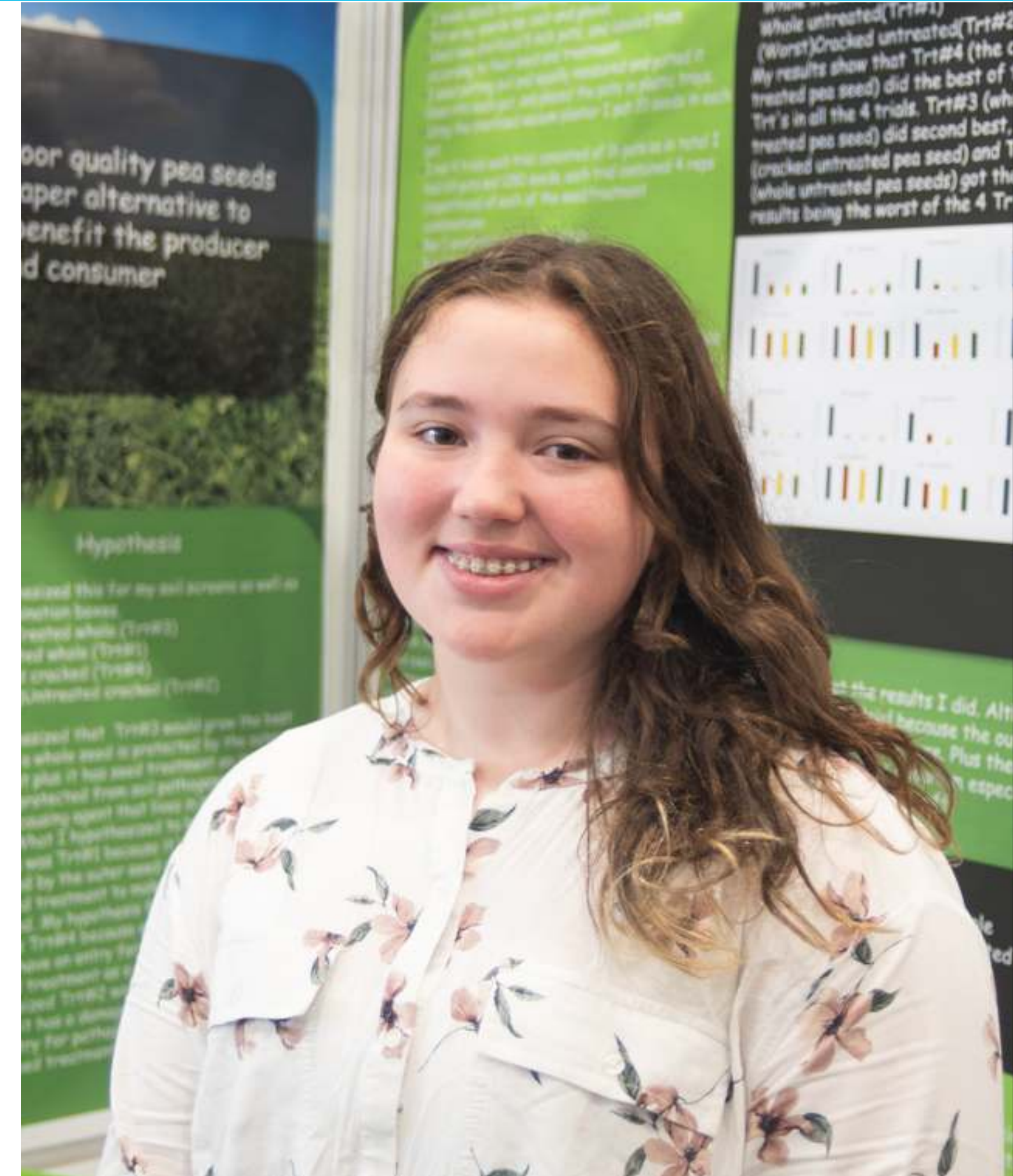


# Challenge Award - Agriculture, Fisheries and Food Prix du défi - Agriculture, pêche et alimentation Intermediate / Intermédiaire

## Isabella Pozniak

Do seed treatments matter?

Peace Country - Alberta







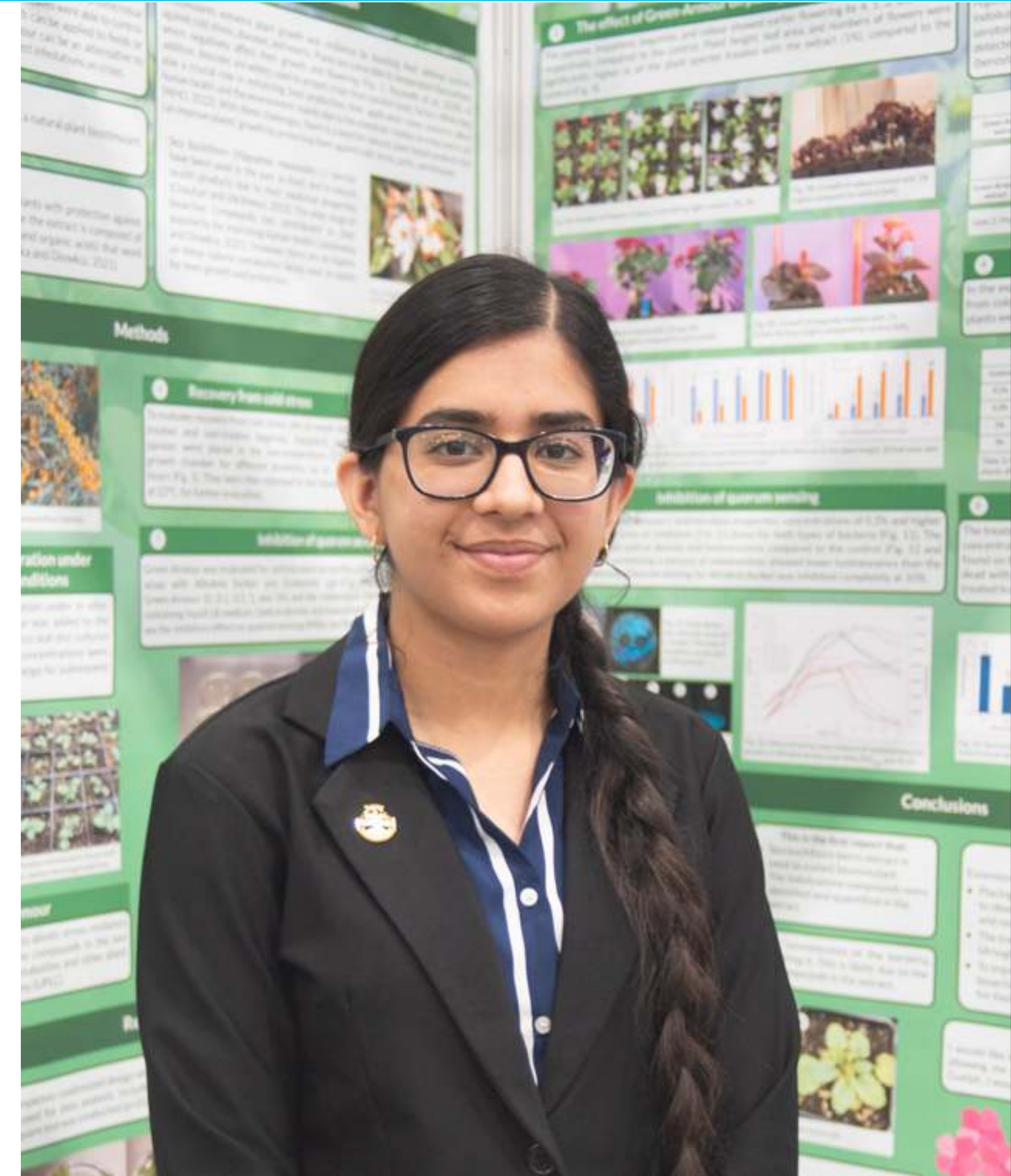
# Challenge Award - Agriculture, Fisheries and Food Prix du défi - Agriculture, pêche et alimentation

Senior / Sénior

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Waterloo-Wellington – Ontario







**Challenge Award - Curiosity and Ingenuity**

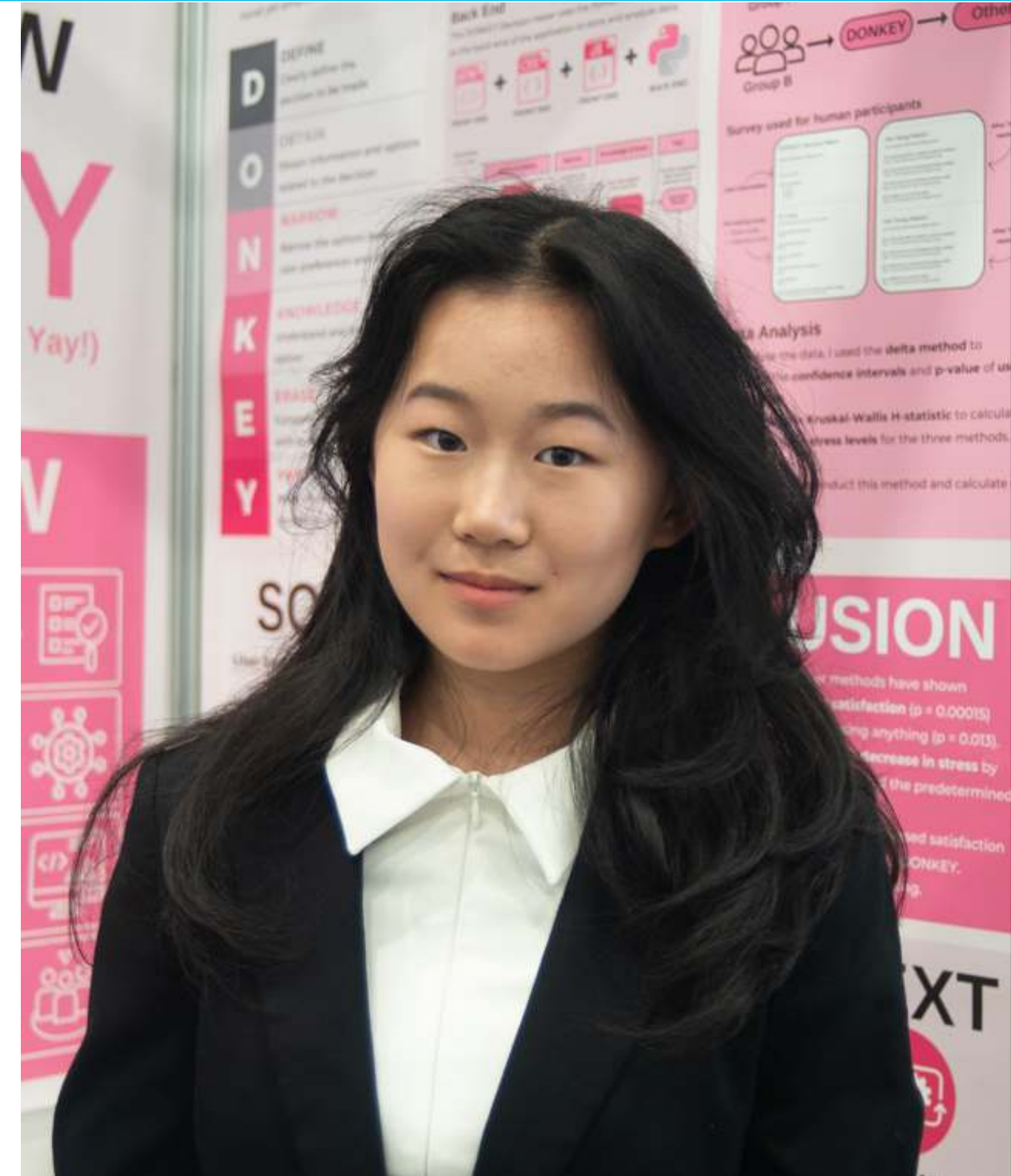
**Prix du défi - Curiosité et ingéniosité**

Junior

**Daisy Dong**

**DONKEY: A solution framework for Analysis Paralysis**

Niagara – Ontario







## Challenge Award - Curiosity and Ingenuity

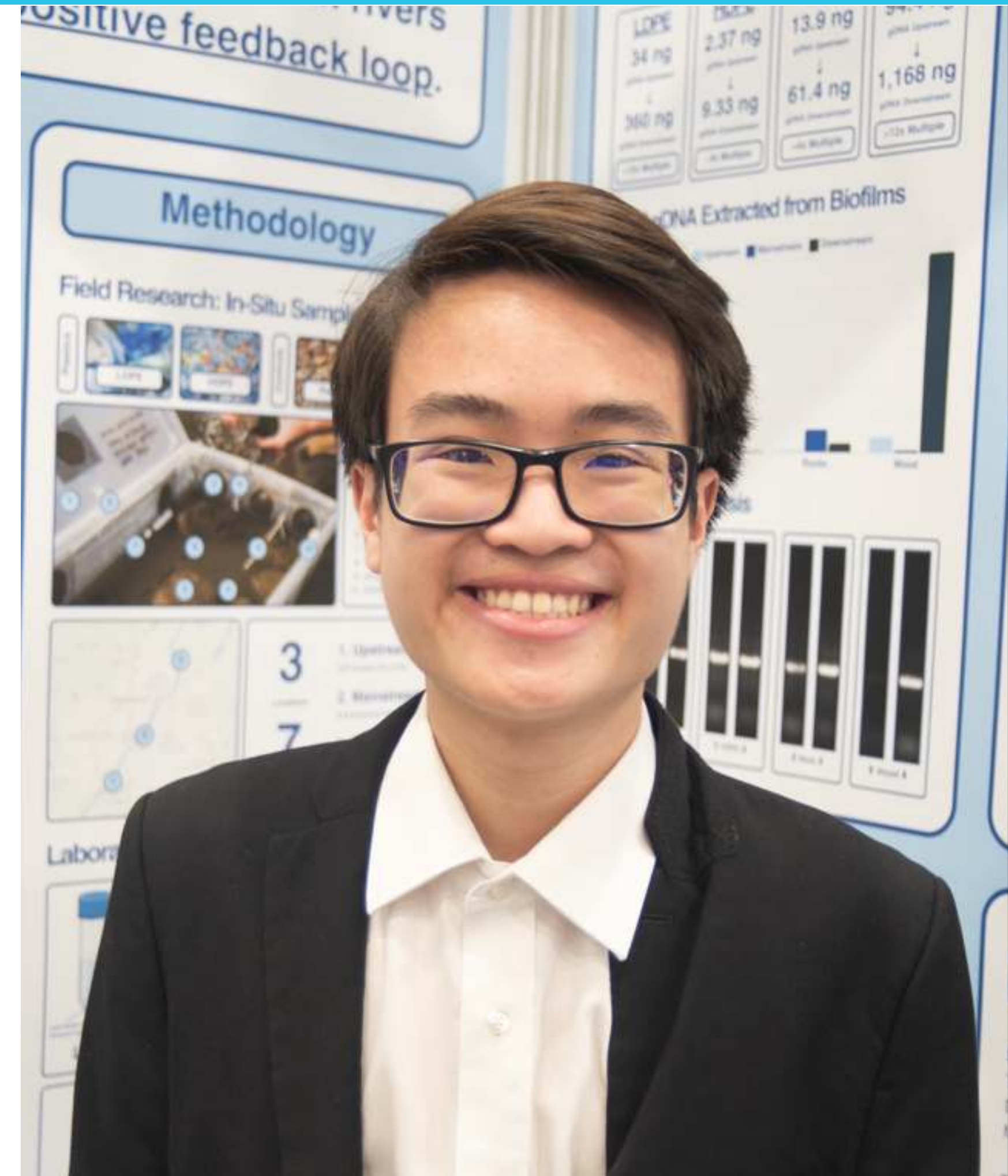
## Prix du défi - Curiosité et ingéniosité

Intermediate / Intermédiaire

# Thông Quách

## Project PolyQuant: Quantifying Genomic DNA from Biofilms on Polyethylene in an Urban River Ecosystem

Saskatoon – Saskatchewan







**Challenge Award - Curiosity and Ingenuity**

**Prix du défi - Curiosité et ingéniosité**

Senior / Sénior

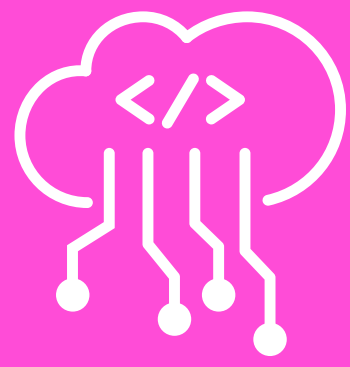
# Nikita Artsimenia

**The “Helping Hand” Project**

Calgary Youth – Alberta







## Challenge Award - Digital Technology

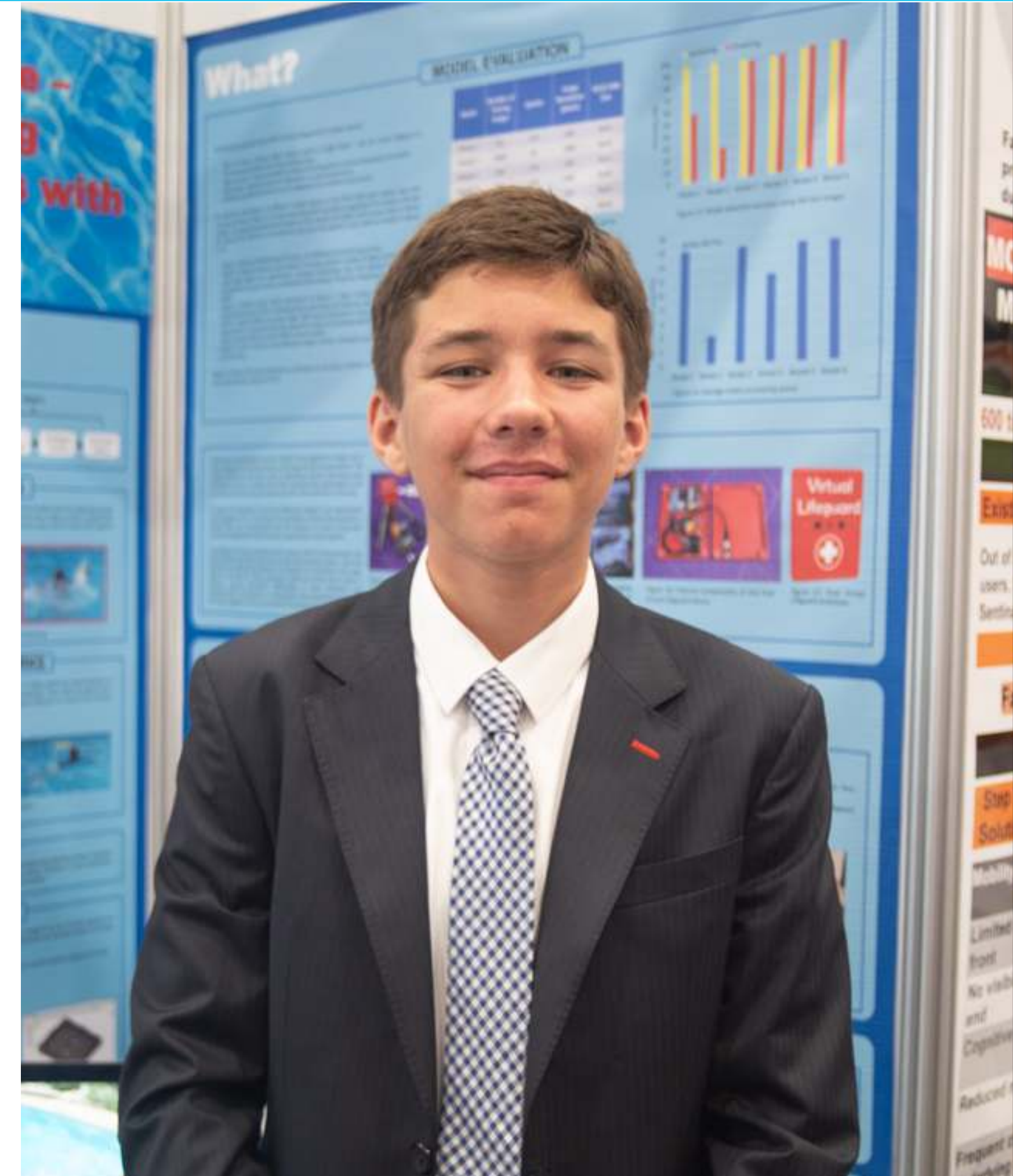
## Prix du défi - Technologie numérique

Junior

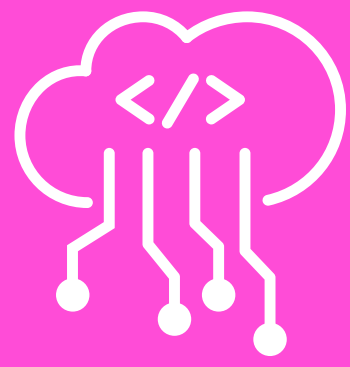
# Evan Budz

## Virtual Lifeguard: A Novel AI Approach to Drowning Prevention

Bay Area - Ontario







## Challenge Award - Digital Technology

## Prix du défi - Technologie numérique

Intermediate / Intermédiaire

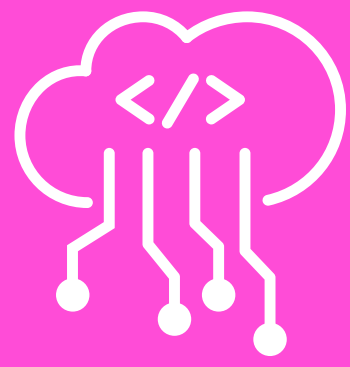
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Greater Vancouver – British Columbia







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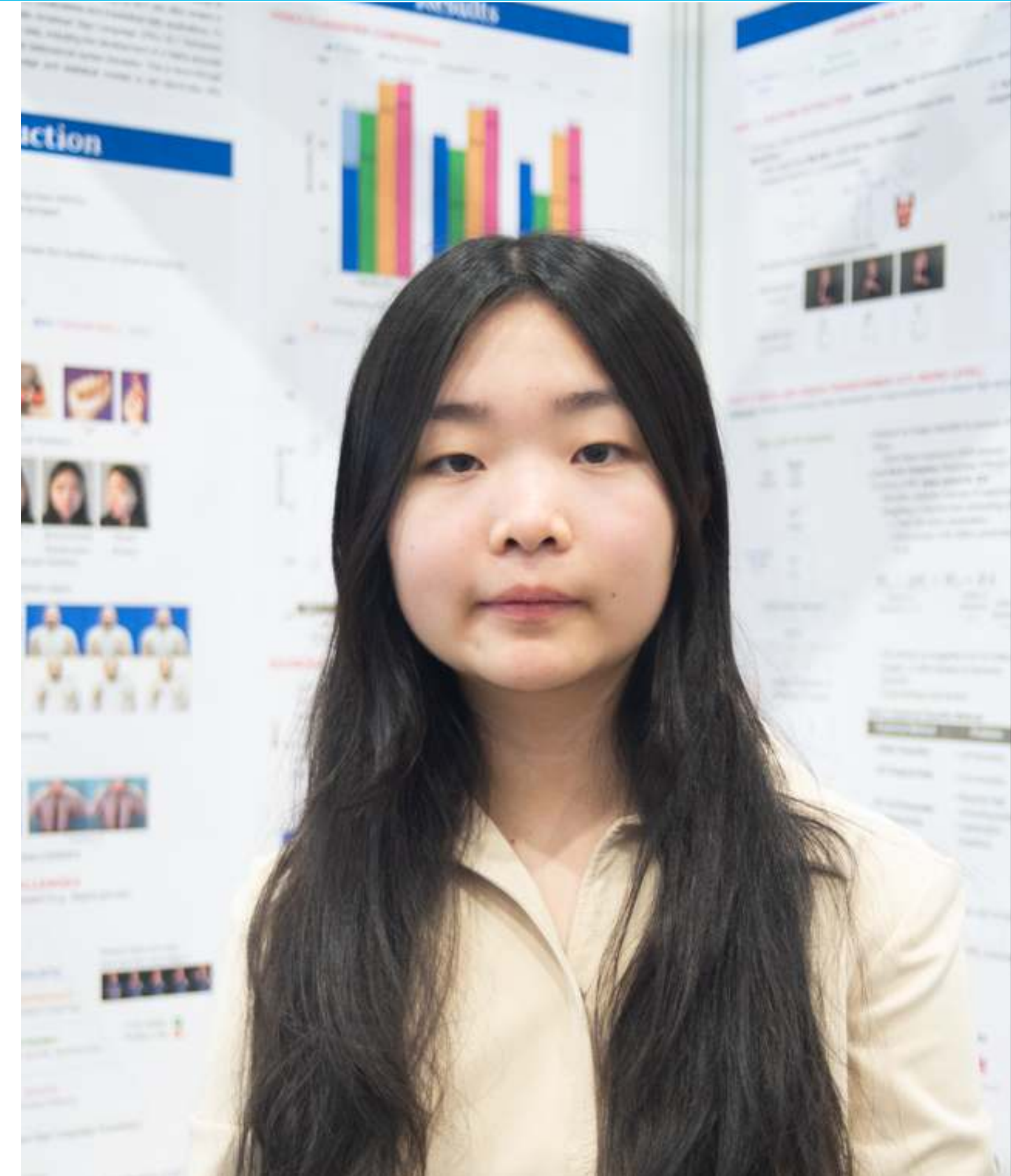
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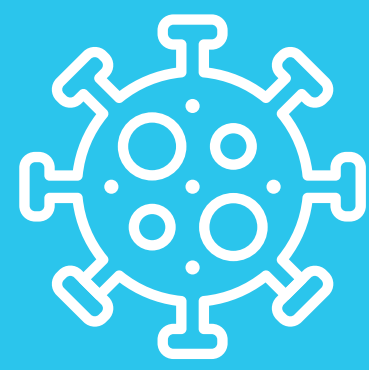
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## Challenge Award - Disease and Illness

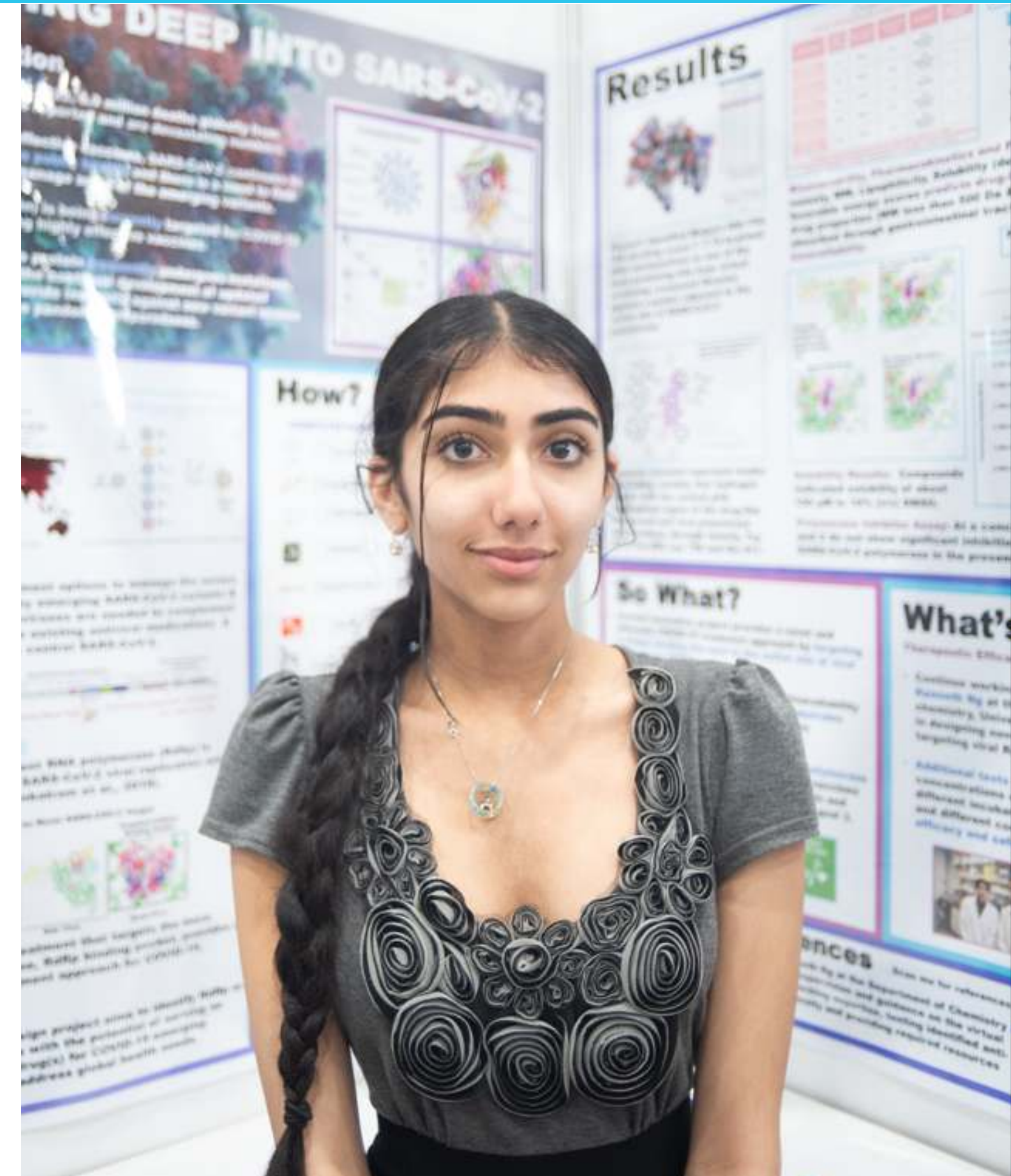
## Prix du défi - Maladies et infections

Junior

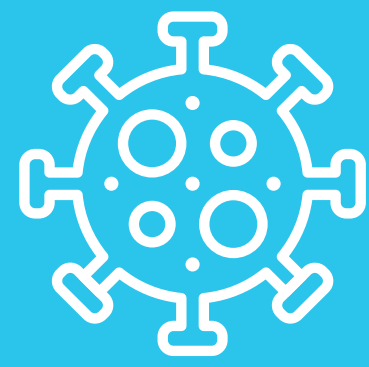
# Sehar Sidhu

## Delving Deep Into SARS-CoV-2

Windsor - Ontario







## Challenge Award - Disease and Illness

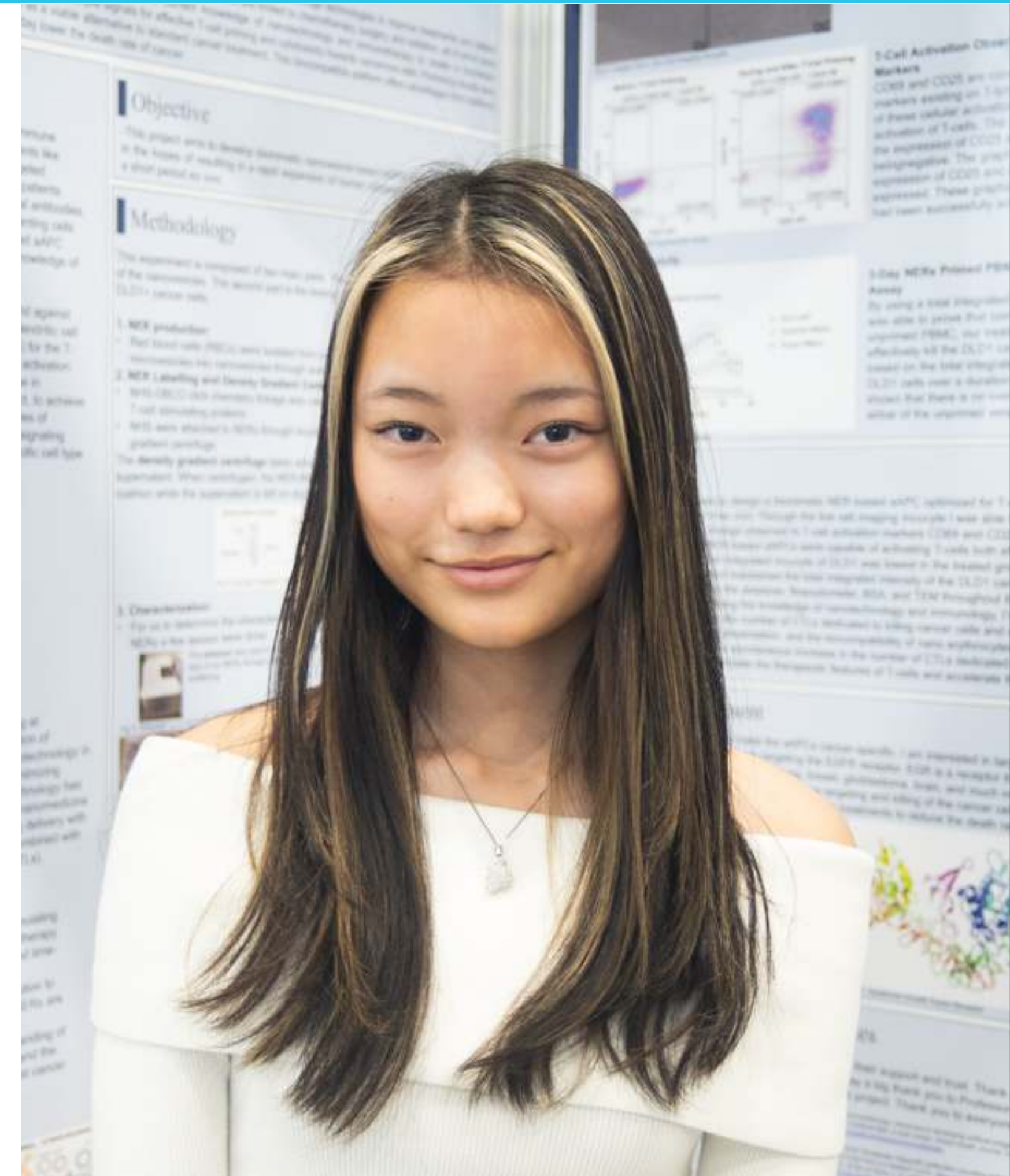
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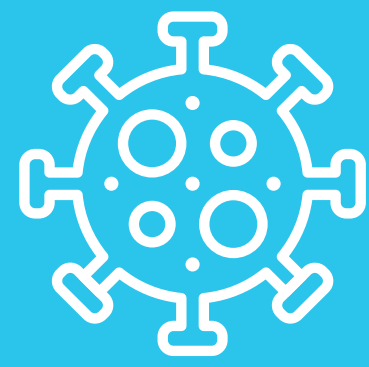
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## Designing Biomimetic Nanovesicles for Cancer Treatment

Saskatoon - Saskatchewan







**Challenge Award - Disease and Illness**

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Senior / Sénior

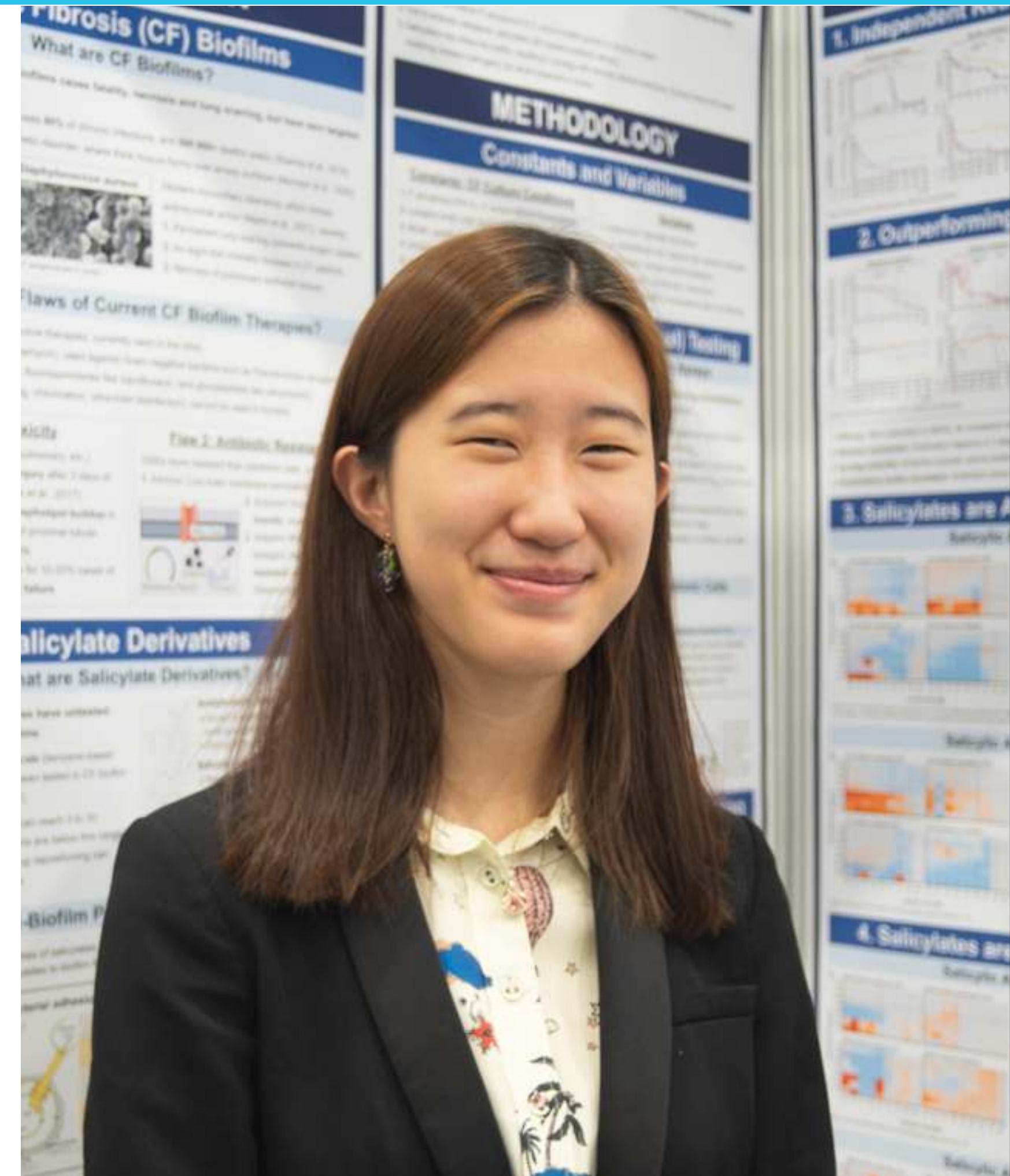
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Greater Vancouver – British Columbia



Youth Science Canada  
Sciences jeunesse Canada







**Challenge Award - Energy**

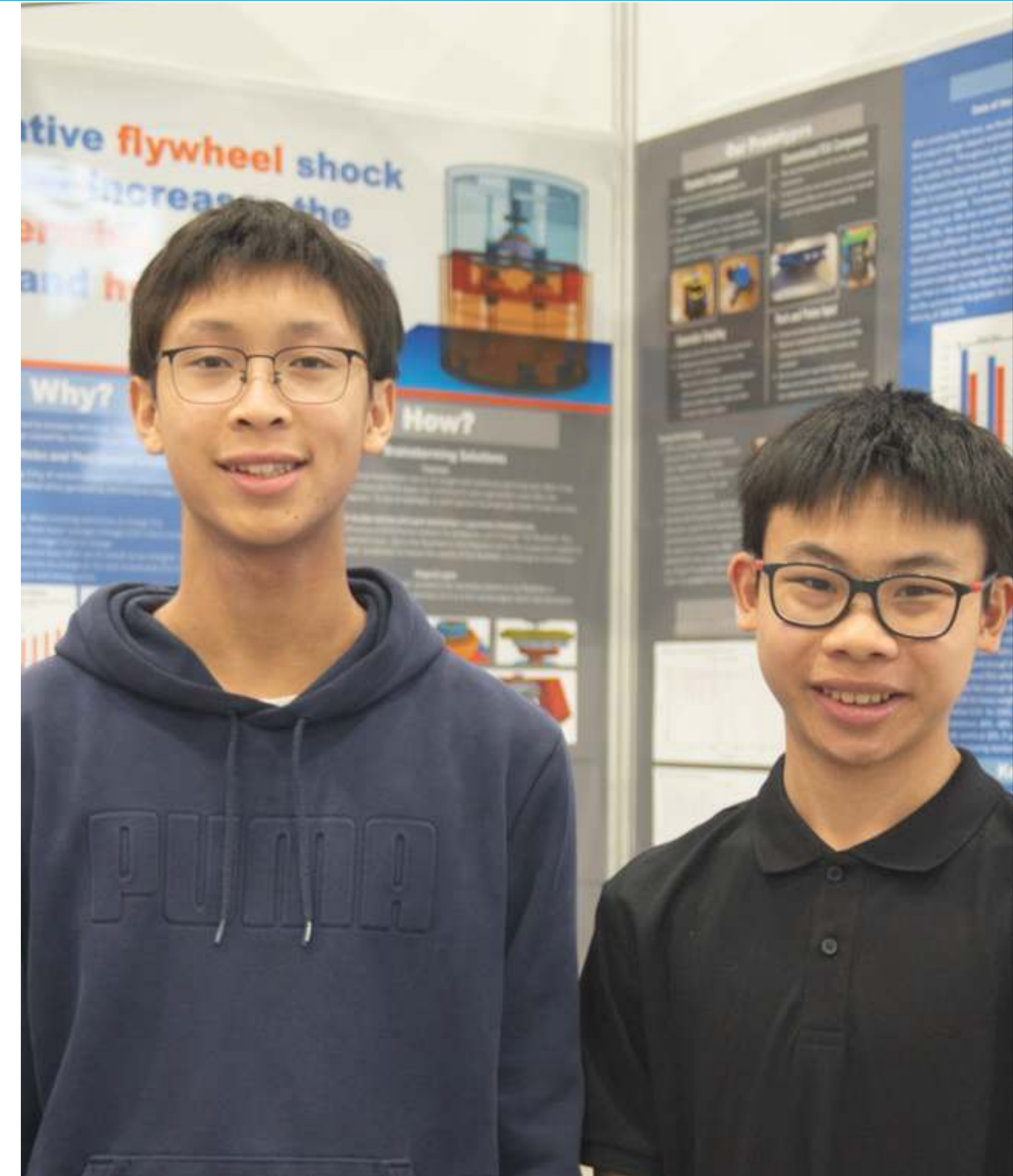
**Prix du défi - Énergie**

Junior

**Matt Fong**  
**William Zhou**

**Extending Mileage on EV and Hybrid Vehicles using a Ratchet and Flywheel  
Regenerative Shock Absorber**

Toronto – Ontario







## Challenge Award - Energy

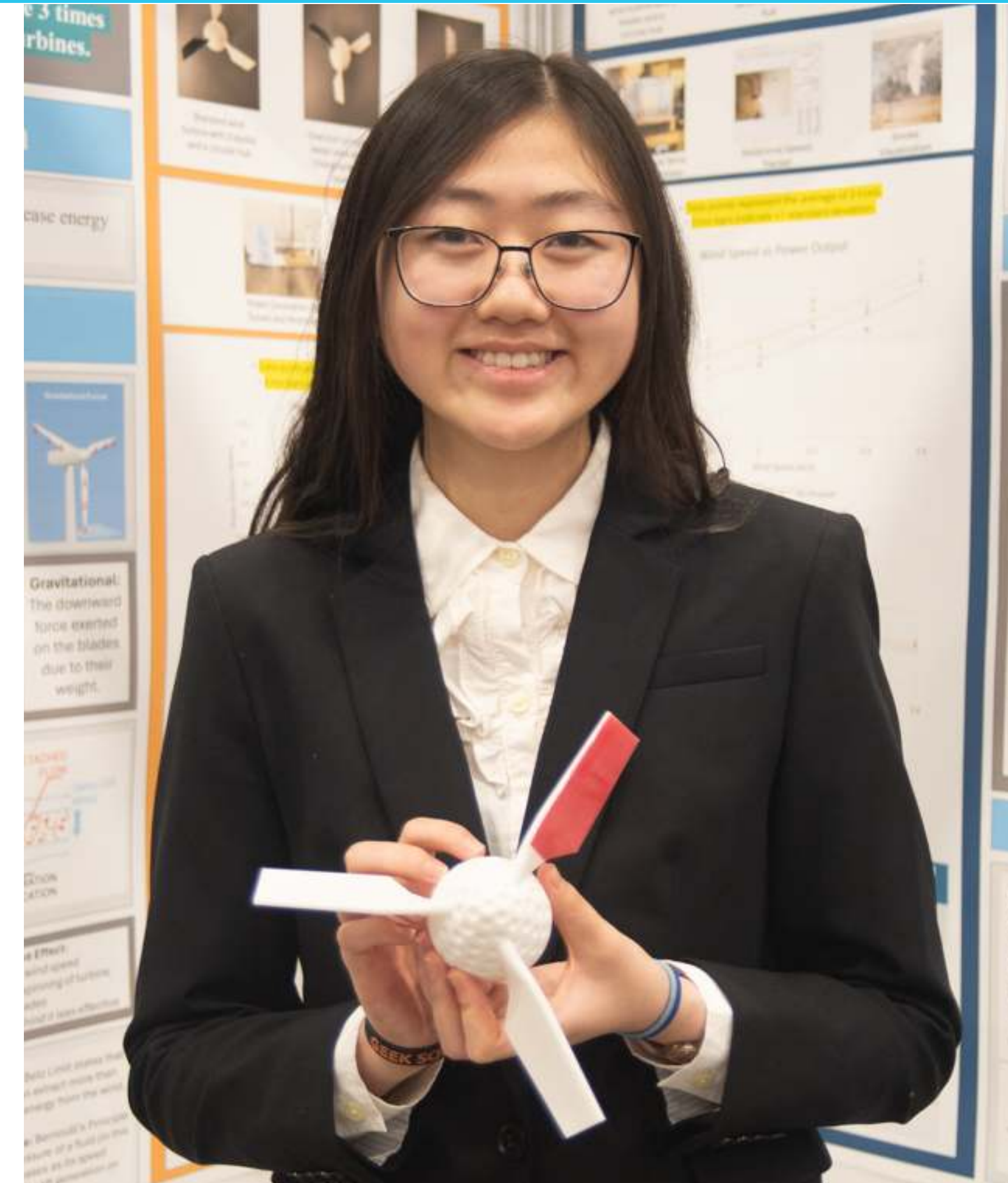
## Prix du défi - Énergie

Intermediate / Intermédiaire

# Zhuola Sun

## Designing a More Efficient Wind Turbine

Vancouver Island – British Columbia







**Challenge Award - Energy**

**Prix du défi - Énergie**

Senior / Sénior

## Veronica Guo

**A Novel, Cost-Effective Biological Photovoltaic for Wastewater Treatment**

Greater Vancouver – British Columbia







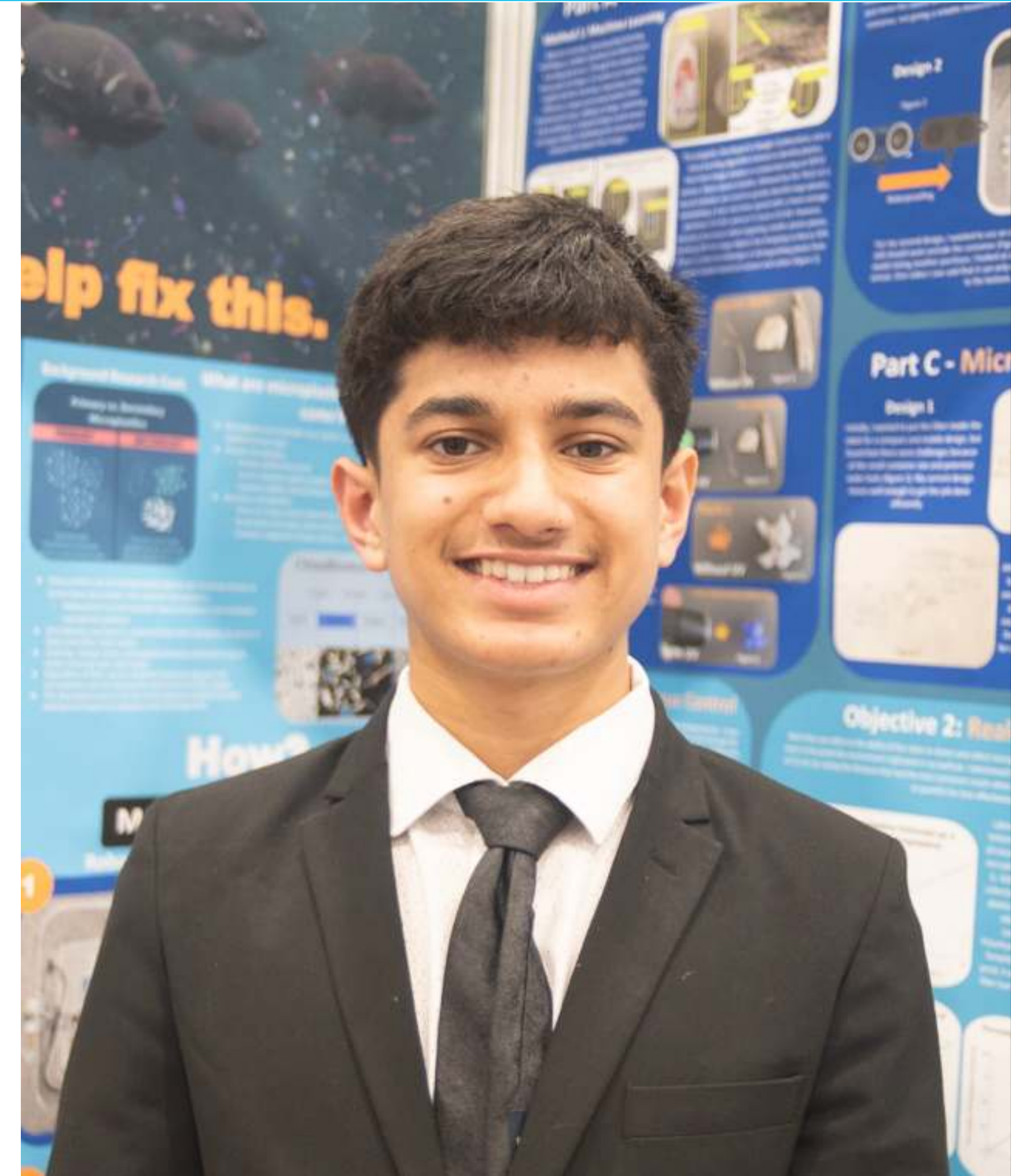
**Challenge Award - Environment and Climate Change**  
**Prix du défi - Environnement et changement climatique**

Junior

**Aryan Sharma**

**The MicroGuard Microplastic Collector**

Calgary Youth - Alberta







# Challenge Award - Environment and Climate Change Prix du défi - Environnement et changement climatique

Intermediate / Intermédiaire

## Sarah Murimboh

### Friend or Foe: Evaluating the Toxicity of Natural Pesticides on Springtails

Annapolis Valley – Nova Scotia







## Challenge Award - Environment and Climate Change Prix du défi - Environnement et changement climatique

Senior / Sénior

### Noah Bryan

Is the water safe to drink? The rapid test is the missing link!

Canadian Black Scientists Network Youth



Youth Science Canada  
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## Challenge Award - Health and Wellness

Prix du défi - Santé ou bien-être

Junior

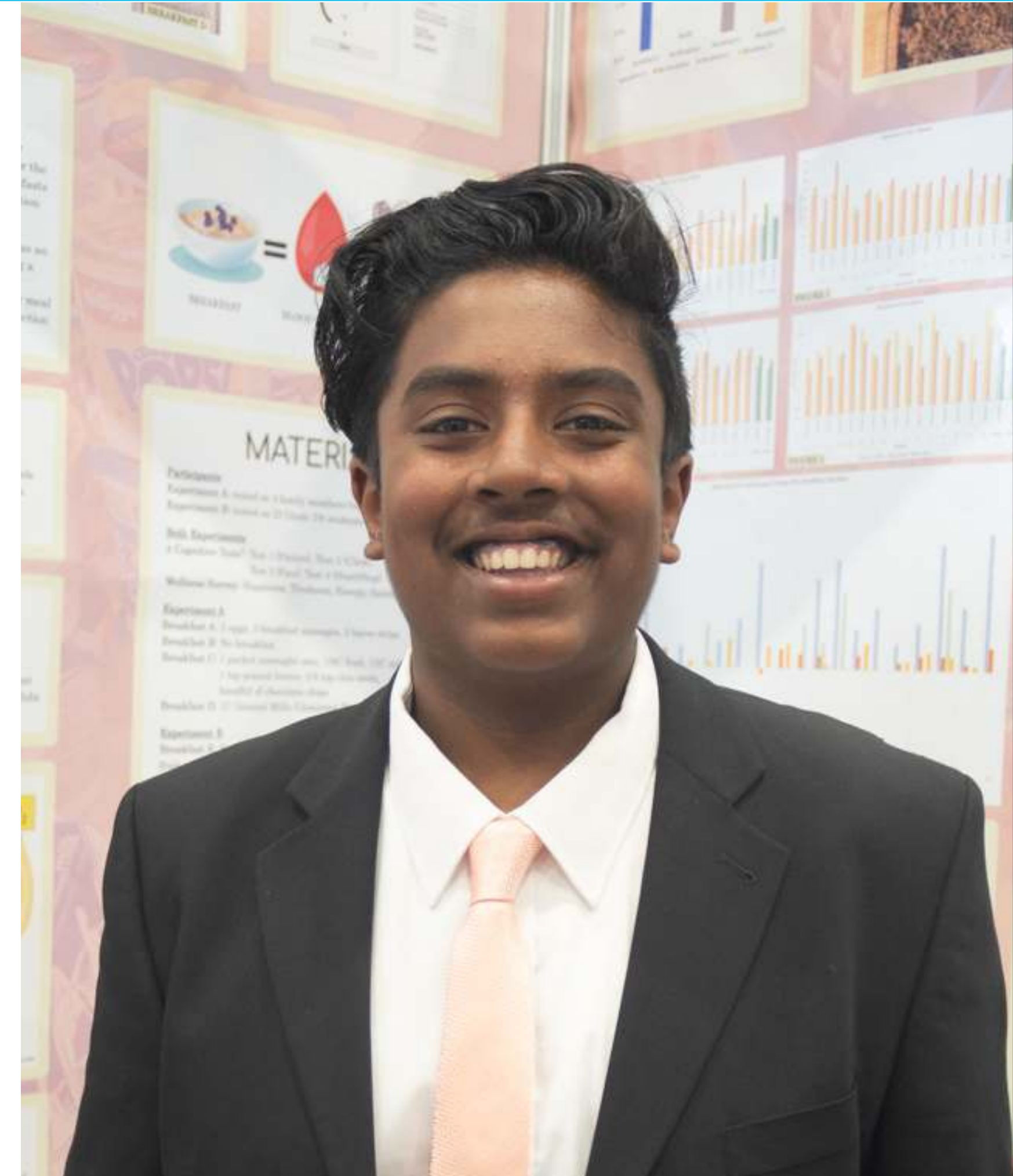
# Oscar Weerasinghe

Breakfast on the Brain

Bluewater – Ontario



Youth Science Canada  
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## Challenge Award - Health and Wellness

## Prix du défi - Santé ou bien-être

Intermediate / Intermédiaire

# Joy Akinkunmi

## Pill Smart 2.0

Canadian Black Scientists Network Youth







## Challenge Award - Health and Wellness

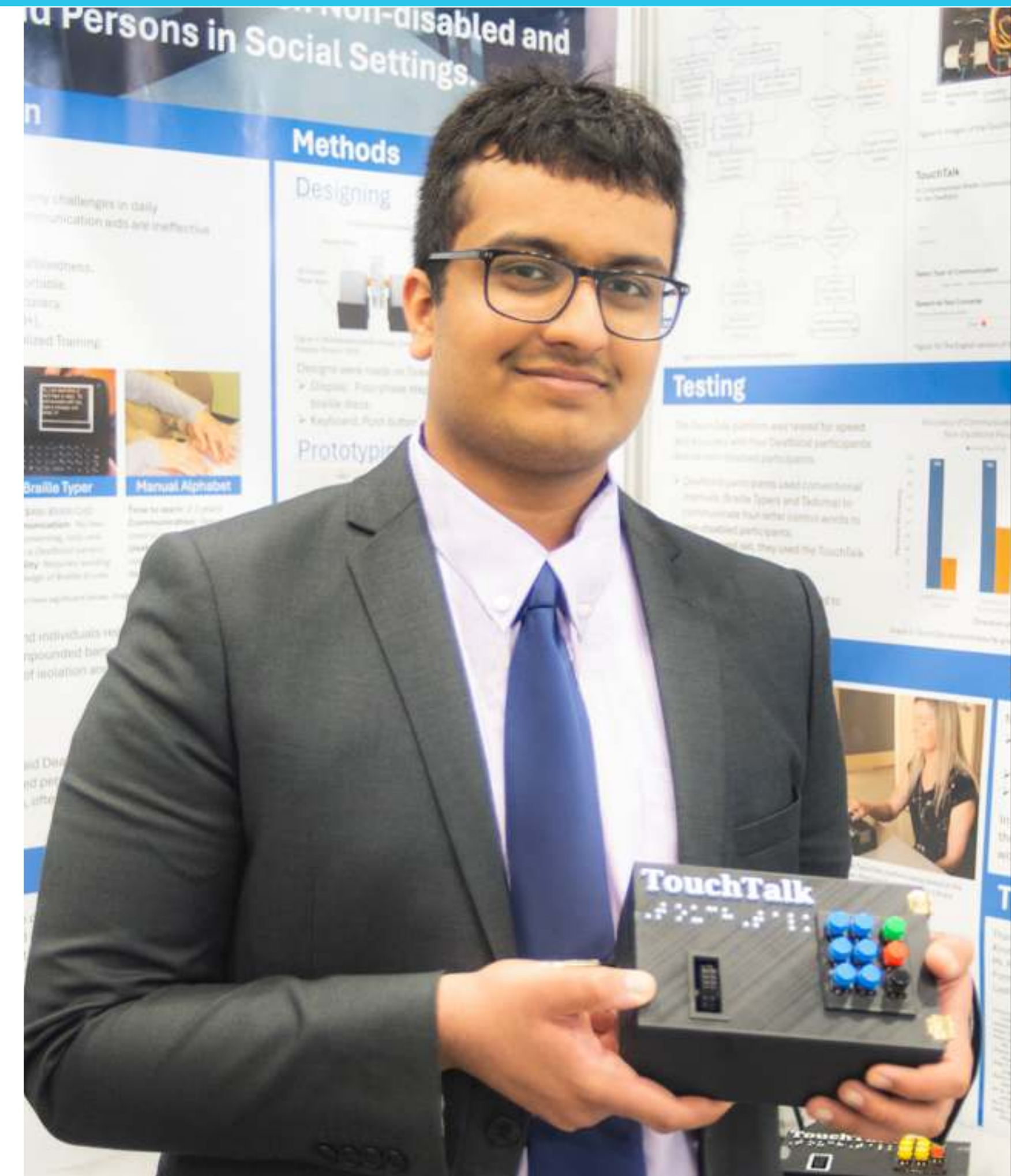
## Prix du défi - Santé ou bien-être

Senior / Sénior

# Joti Gokaraju

## TouchTalk: A Novel Braille Communication Platform for the Deafblind

Saskatoon – Saskatchewan







## Challenge Award - Natural Resources

## Prix du défi - Ressources naturelles

Junior

# Justin Guo

## Plastic degradation through a novel Thermal Electro-Fenton System

Greater Vancouver – British Columbia







## Challenge Award - Natural Resources

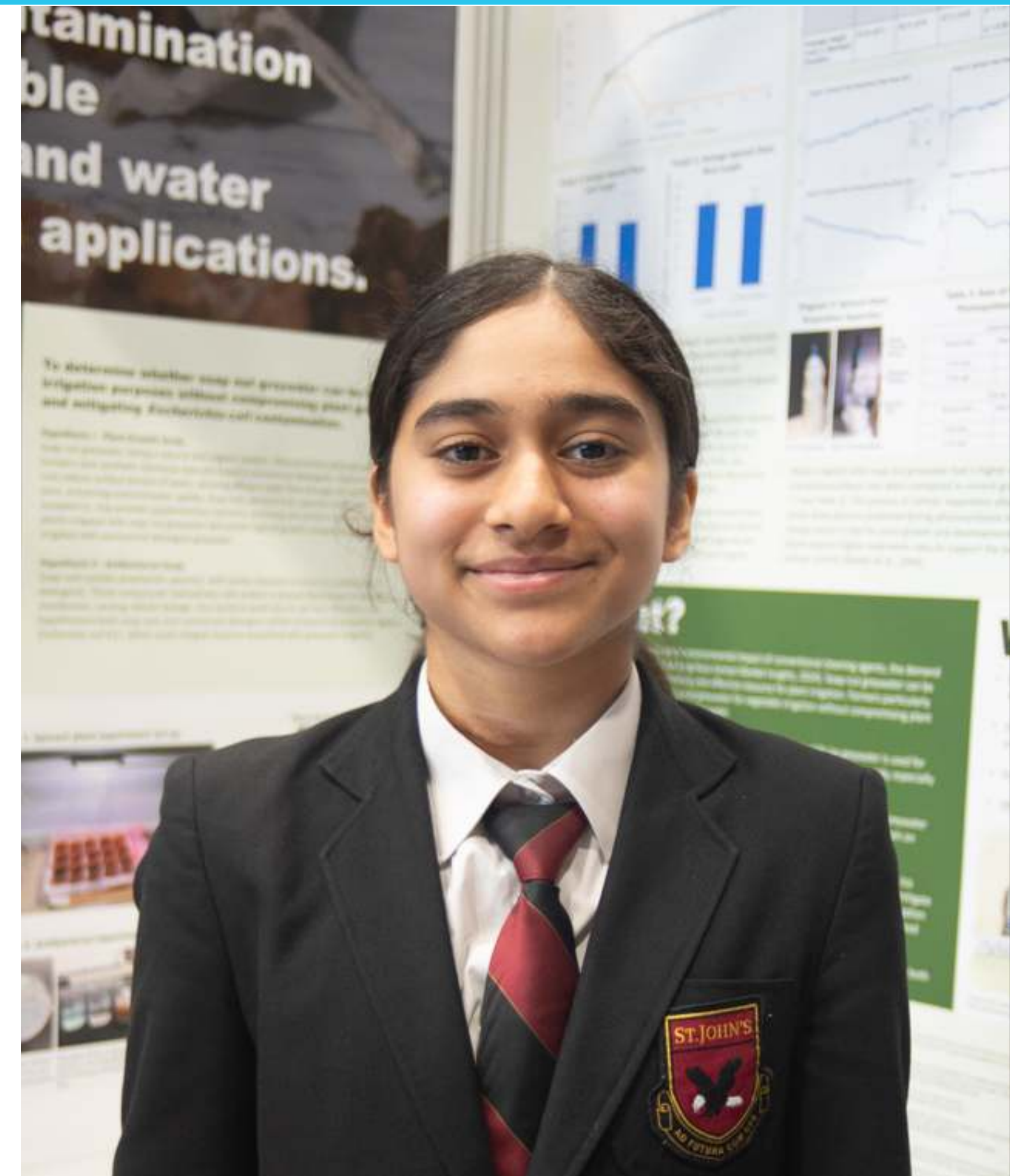
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# Casper Dong

## “Solving A Water Crisis” A Novel Device For Water Generation and Utilization in Desert Solar Arrays

Waterloo-Wellington – Ontario



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CWSF Canada-Wide Science Fair  
ESPC Expo-sciences pancanadienne

**Sanofi Biogenius Canada Award  
Prix Sanofi Biogenius Canada**

Junior

**Sarah Bykewich**

**Electroculture**

Edmonton – Alberta

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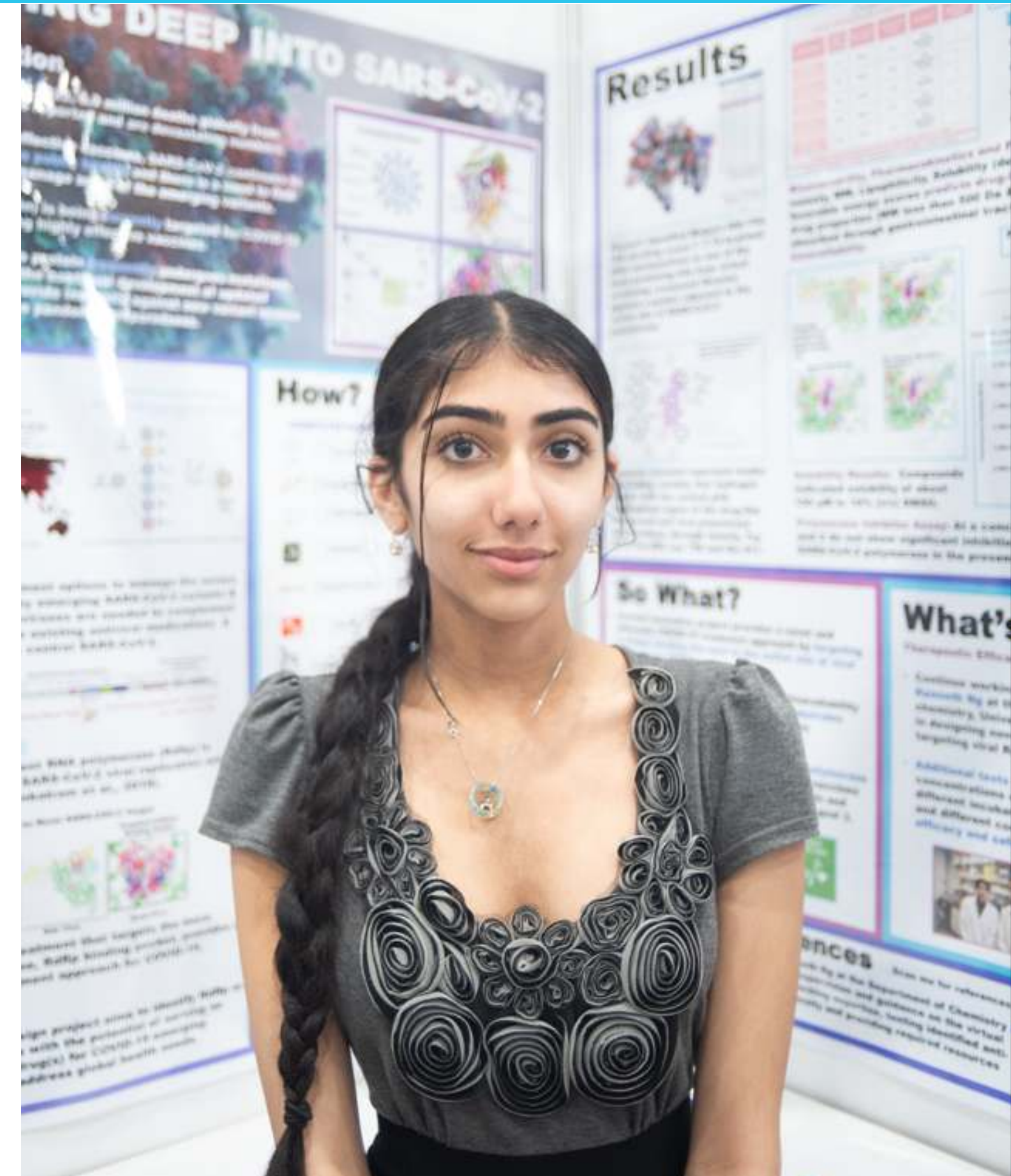
Sanofi Biogenius Canada Award  
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Delving Deep Into SARS-CoV-2

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CWSF Canada-Wide Science Fair  
ESPC Expo-sciences pancanadienne

Sanofi Biogenius Canada Award  
Prix Sanofi Biogenius Canada  
Junior

## Kristina Tannert

From Oil Spills to Algae Thrills

Central Interior BC – British Columbia

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CWSF Canada-Wide Science Fair  
ESPC Expo-sciences pancanadienne

Sanofi Biogenius Canada Award

Prix Sanofi Biogenius Canada

Intermediate / Intermédiaire

**Audrey Cowen**

Microbes and Molecules: The Key to Abolishing Drug Resistance

Toronto - Ontario

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Ottawa, ON • Ottawa (Ontario)



Youth Science Canada  
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CWSF Canada-Wide Science Fair  
ESPC Expo-sciences pancanadienne

Sanofi Biogenius Canada Award

Prix Sanofi Biogenius Canada

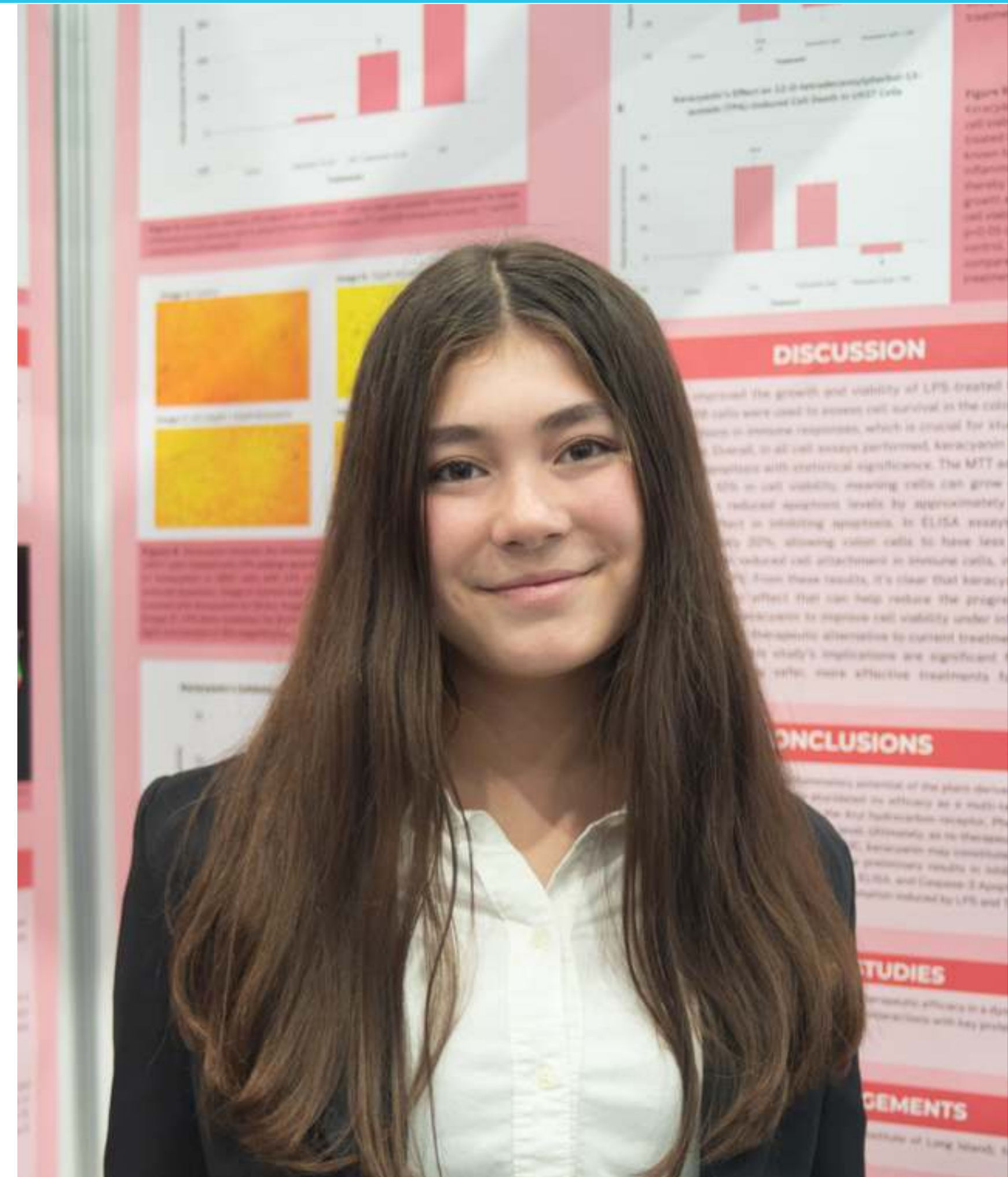
Intermediate / Intermédiaire

**Jacklyn Saddler**

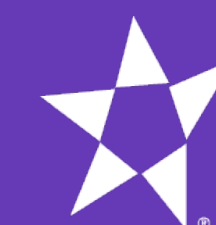
The Effect of Keracyanin in Attenuating the Multifactorial Pathogenesis of Ulcerative Colitis

Niagara - Ontario

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Ottawa, ON • Ottawa (Ontario)



Youth Science Canada  
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CWSF Canada-Wide Science Fair  
ESPC Expo-sciences pancanadienne

Sanofi Biogenius Canada Award

Prix Sanofi Biogenius Canada

Intermediate / Intermédiaire

**Ella Sehn**

Right On The Nose: Using a Super-Absorbent Polymer to Improve Treatment of Chronic Sinusitis

Peterborough – Ontario

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Ottawa, ON • Ottawa (Ontario)



Youth Science Canada  
Sciences jeunesse Canada



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CWSF Canada-Wide Science Fair  
ESPC Expo-sciences pancanadienne

**Sanofi Biogenius Canada Award  
Prix Sanofi Biogenius Canada**

Senior / Sénior

**Noah Bryan**

**Is the water safe to drink? The rapid test is the missing link!**

Canadian Black Scientists Network Youth

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Ottawa, ON • Ottawa (Ontario)



Youth Science Canada  
Sciences jeunesse Canada



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CWSF Canada-Wide Science Fair  
ESPC Expo-sciences pancanadienne

Sanofi Biogenius Canada Award

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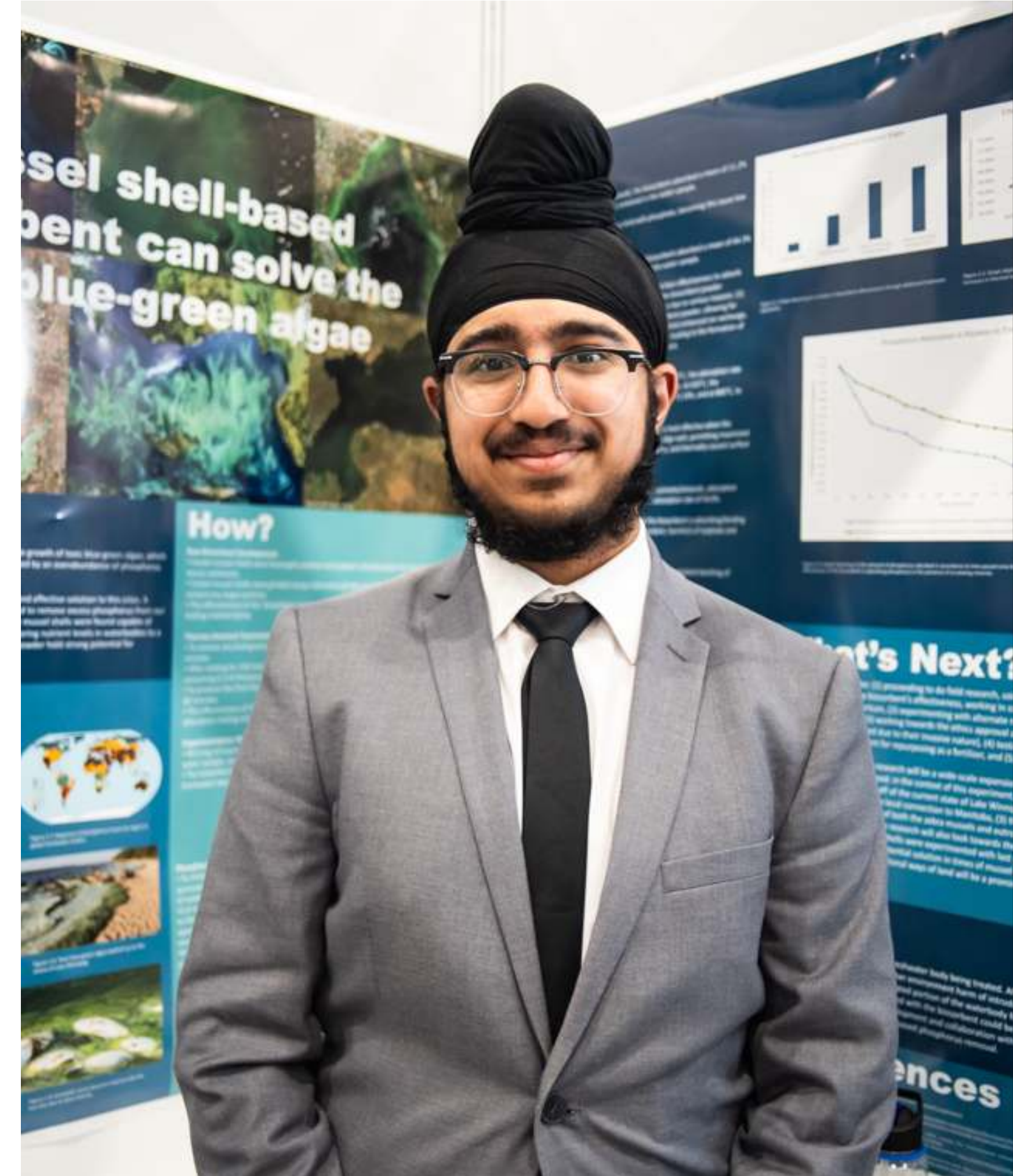
Senior / Sénior

**Baljot Rai**

MopMussels: Development of a Carpet Mussel Shell-based Biosorbent for Phosphorus

Bison – Manitoba

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Ottawa, ON • Ottawa (Ontario)



Youth Science Canada  
Sciences jeunesse Canada



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CWSF  ESPC  
Canada-Wide Science Fair Expo-sciences pancanadienne

Sanofi Biogenius Canada Award

Prix Sanofi Biogenius Canada

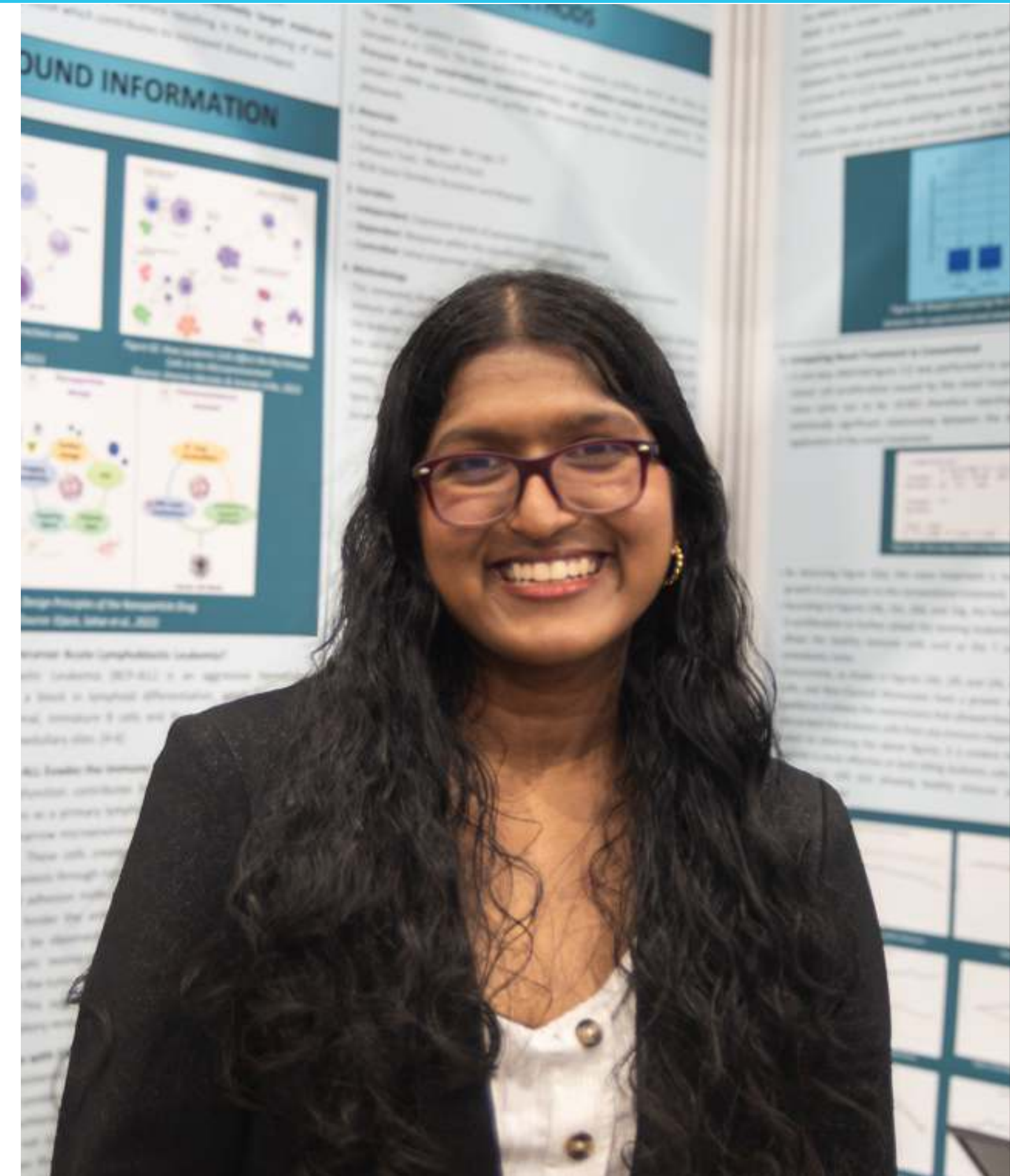
Senior / Sénior

**Viduni Siriwardana**

Novel Nanoparticle Drug Treatment for Adult BCP-ALL Using In-Silico Modeling

Greater Vancouver – British Columbia

sanofi



Ottawa, ON • Ottawa (Ontario)



Youth Science Canada  
Sciences jeunesse Canada



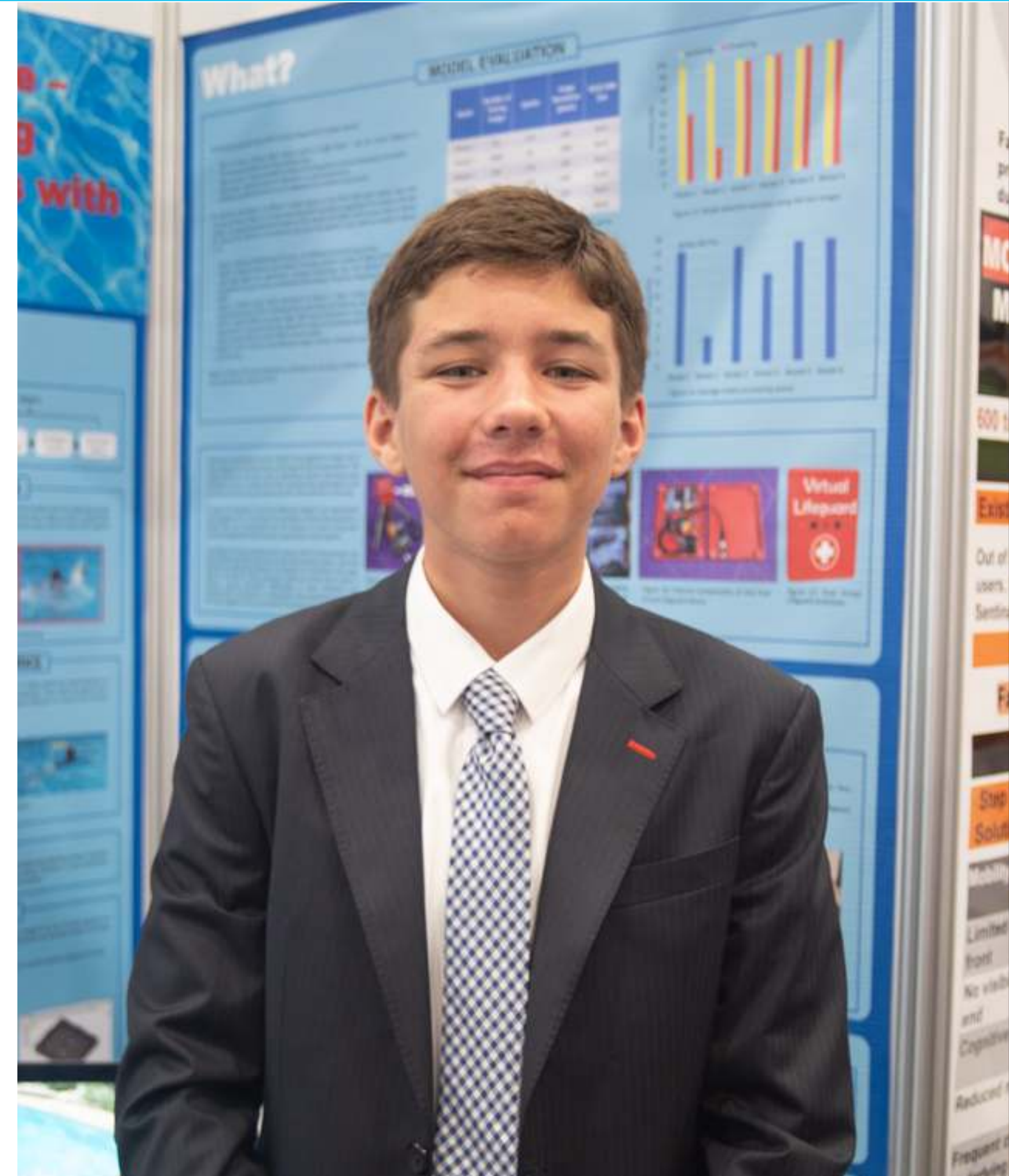
**Youth Can Innovate Award**  
**Prix Jeunesse innovante**  
Junior

**Evan Budz**

**Virtual Lifeguard: A Novel AI Approach to Drowning Prevention**

Bay Area - Ontario

**YOUTH CAN**  
**INNOVATE**



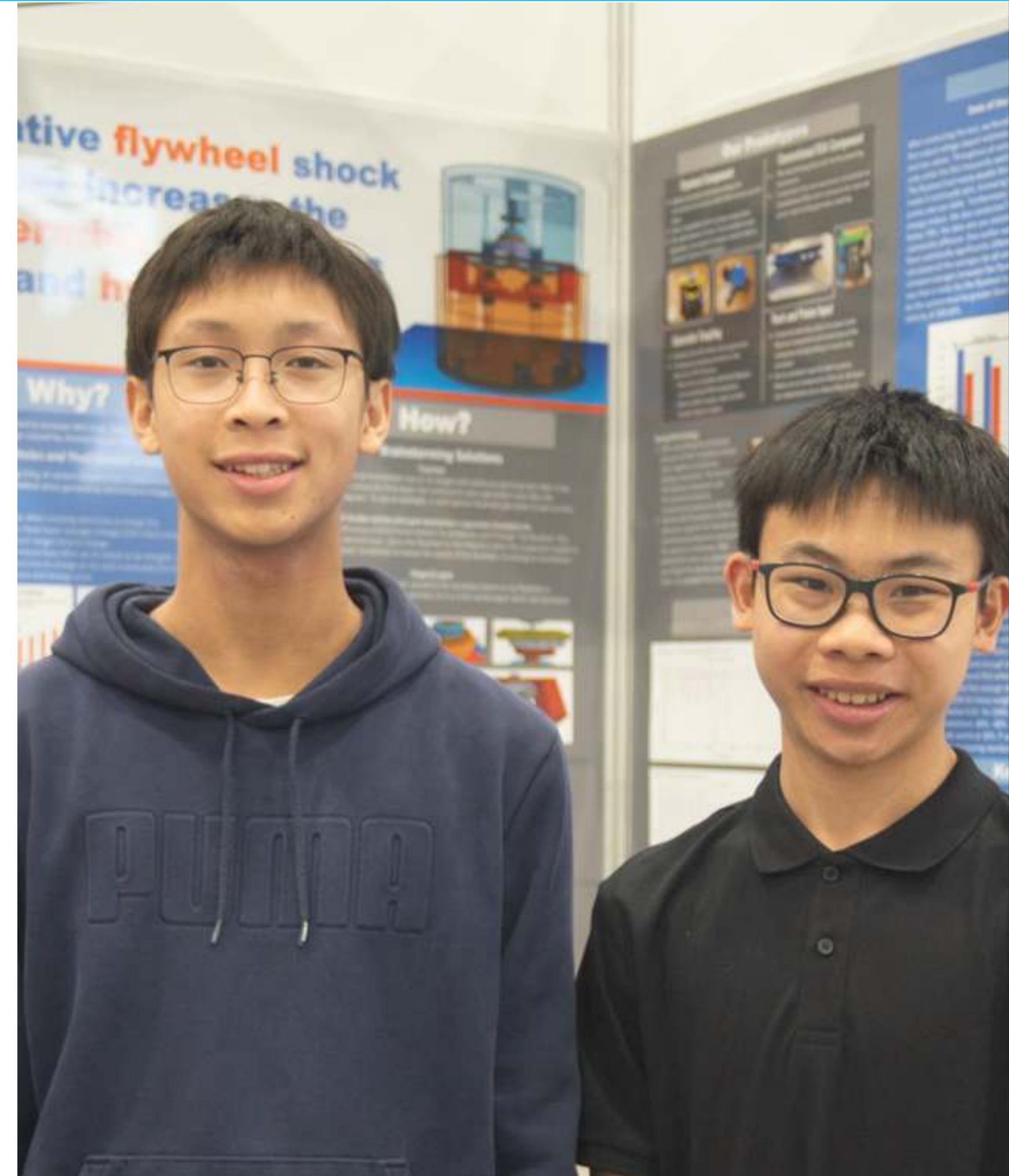


**Youth Can Innovate Award**  
**Prix Jeunesse innovante**  
Junior

**Matt Fong**  
**William Zhou**

**Extending Mileage on EV and Hybrid Vehicles using a Ratchet and Flywheel  
Regenerative Shock Absorber**

Toronto - Ontario



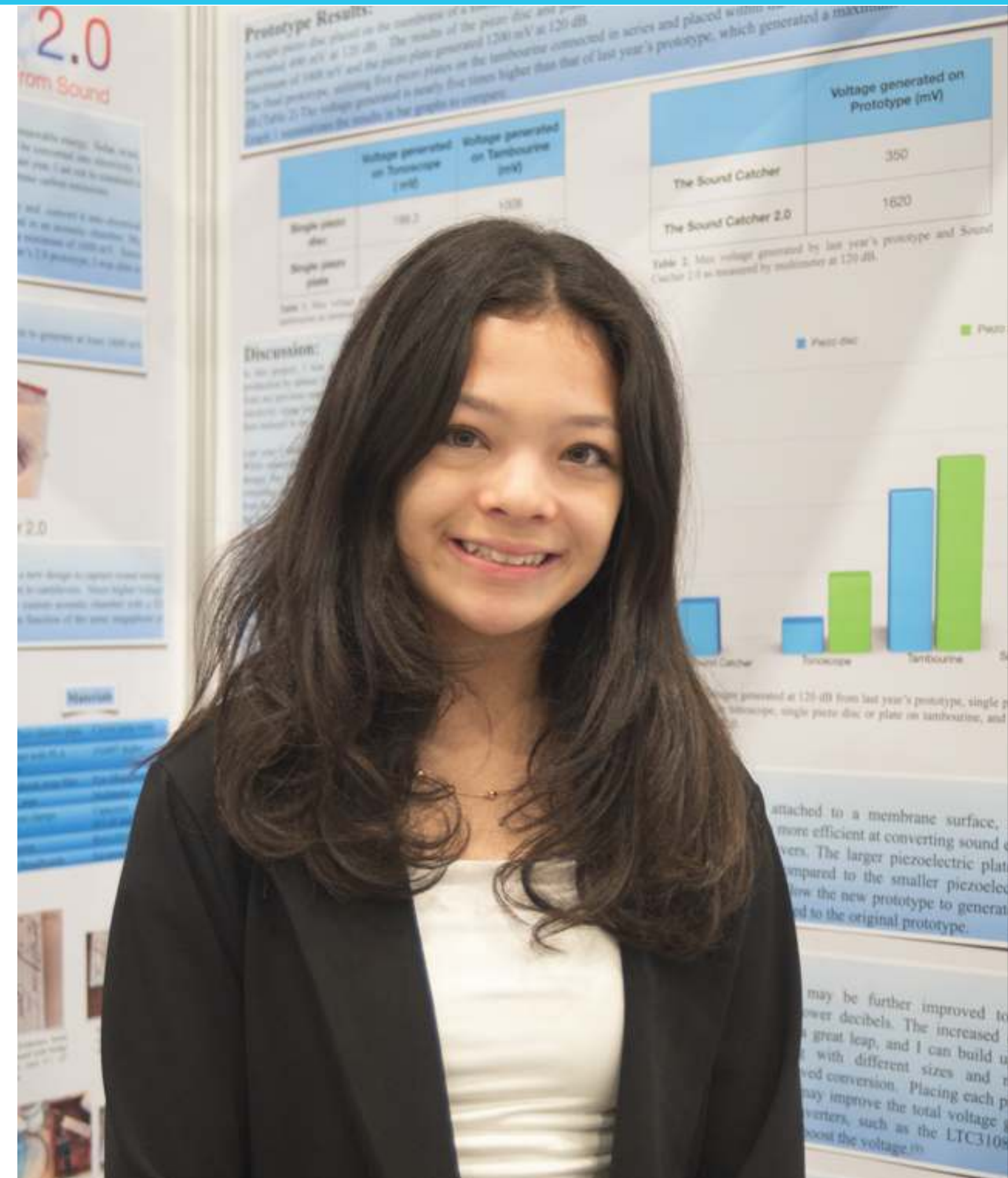


**Youth Can Innovate Award**  
**Prix Jeunesse innovante**  
 Junior

**Isabella Guan**

**The Sound Catcher 2.0: A new and improved innovative device harvesting energy from sound**

Quinte - Ontario



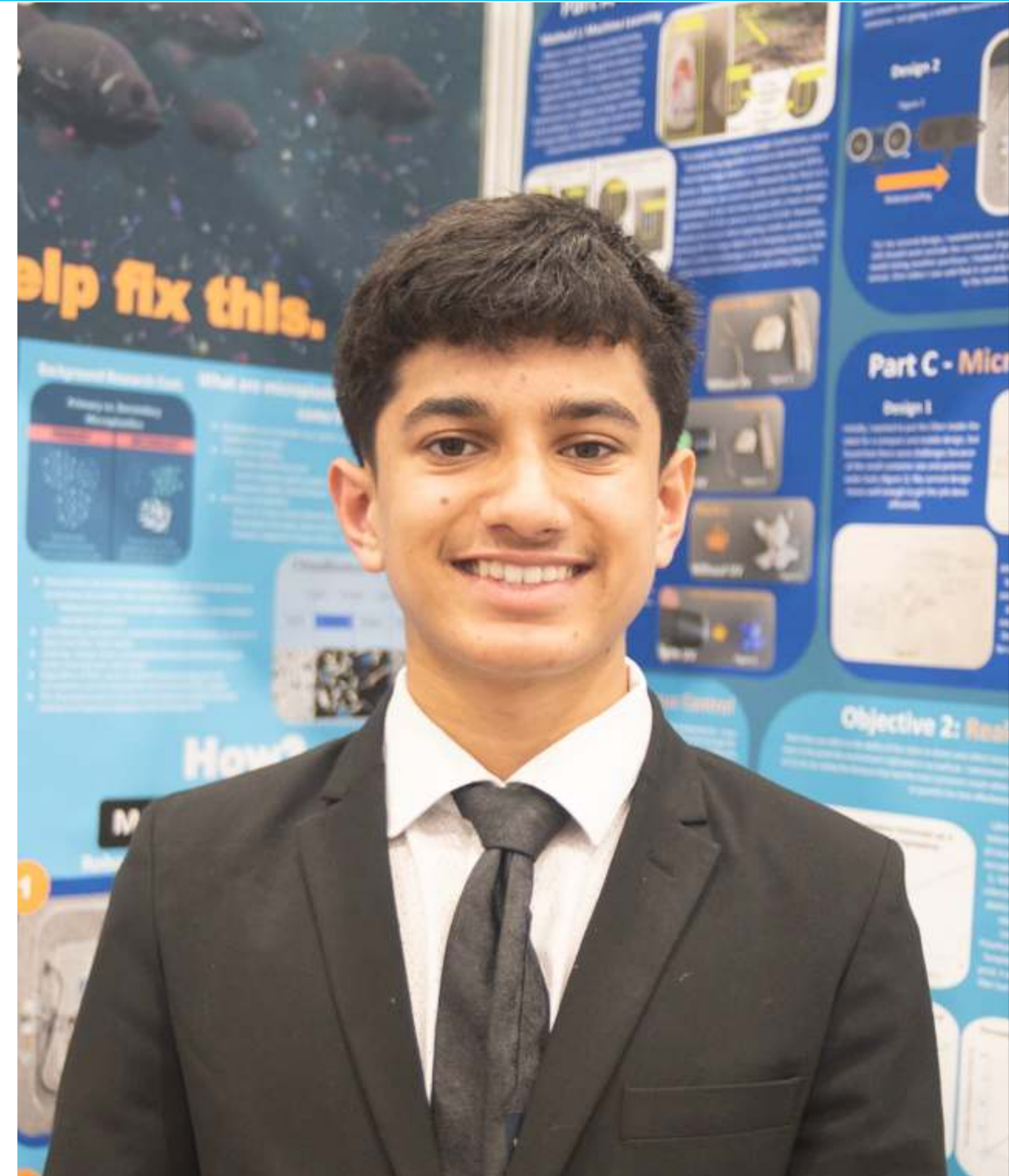


**Youth Can Innovate Award**  
**Prix Jeunesse innovante**  
Junior

**Aryan Sharma**

**The MicroGuard Microplastic Collector**

Calgary Youth – Alberta



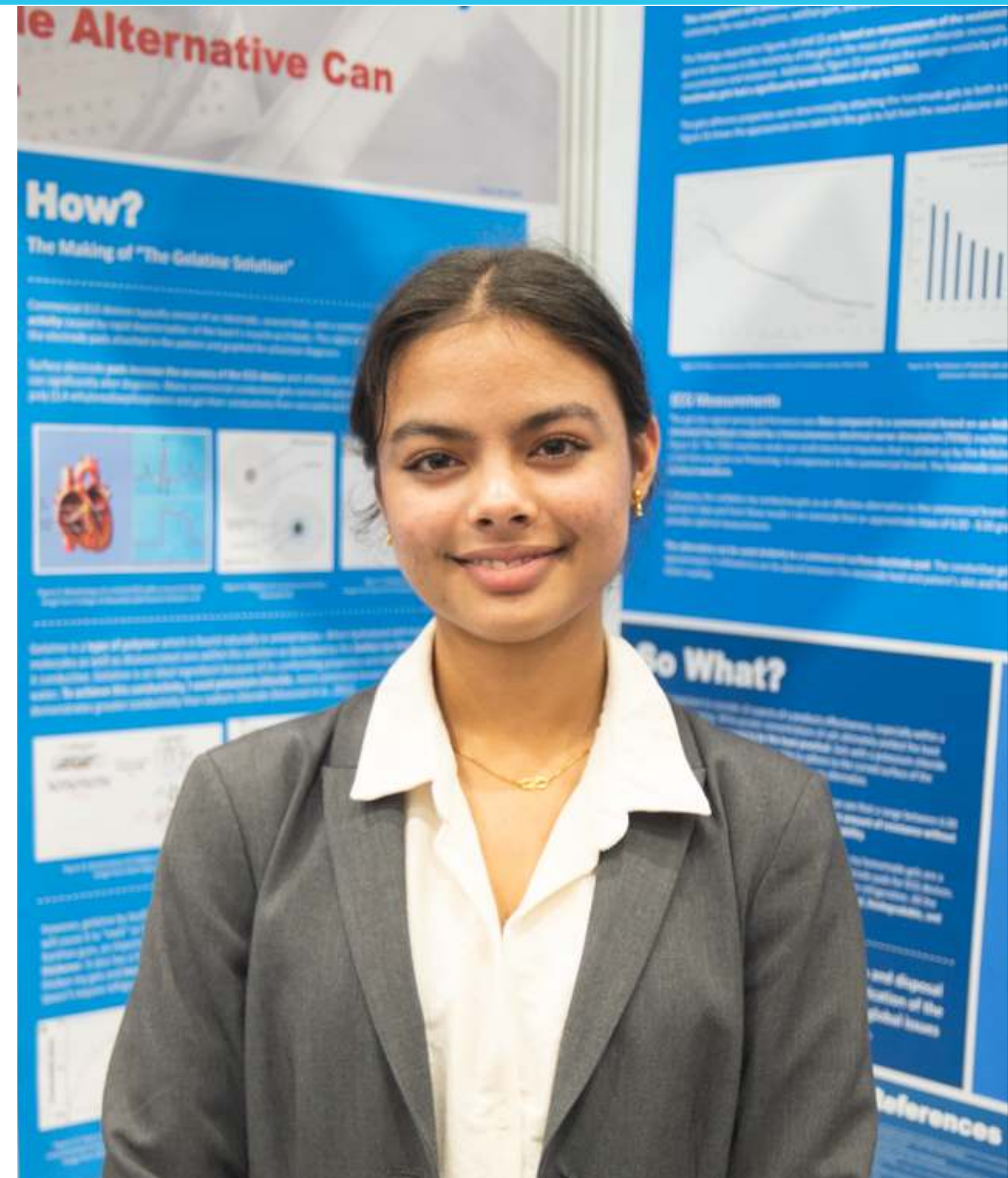


**Youth Can Innovate Award**  
**Prix Jeunesse innovante**  
Intermediate / Intermédiaire

**Karen Attri**

**The Gelatine Solution: An Environmentally Friendly Alternative to Surface Electrode Pads in ECGs**

Calgary Youth – Alberta





**Youth Can Innovate Award**  
**Prix Jeunesse innovante**  
Intermediate / Intermédiaire

**Abigail Chan**

**ThinkNet: Decoding Brain Waves using an Electroencephalogram controlled BCI**

Waterloo-Wellington - Ontario





**Youth Can Innovate Award**  
**Prix Jeunesse innovante**  
Intermediate / Intermédiaire

**Jora Singh Nahal**

**DeviceABLE: A Novel Hands-Free Computing App for People with Disabilities**

Greater Vancouver – British Columbia





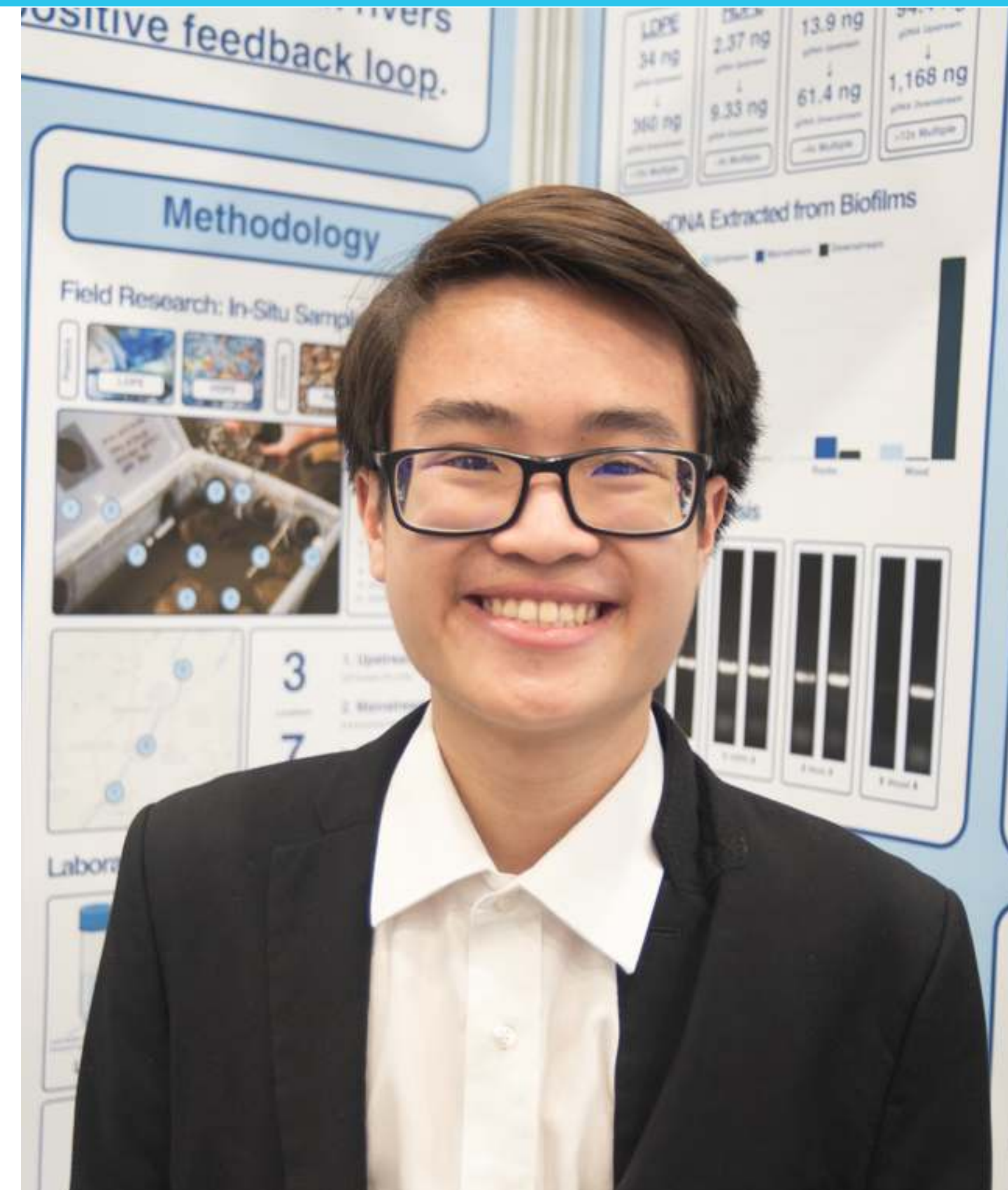
**Youth Can Innovate Award**  
**Prix Jeunesse innovante**  
Intermediate / Intermédiaire

## Thông Quách

**Project PolyQuant: Quantifying Genomic DNA from Biofilms on Polyethylene in an Urban River Ecosystem**

Saskatoon – Saskatchewan

**YOUTH CAN**  
**INNOVATE**





## Youth Can Innovate Award

### Prix Jeunesse innovante

Senior / Sénior

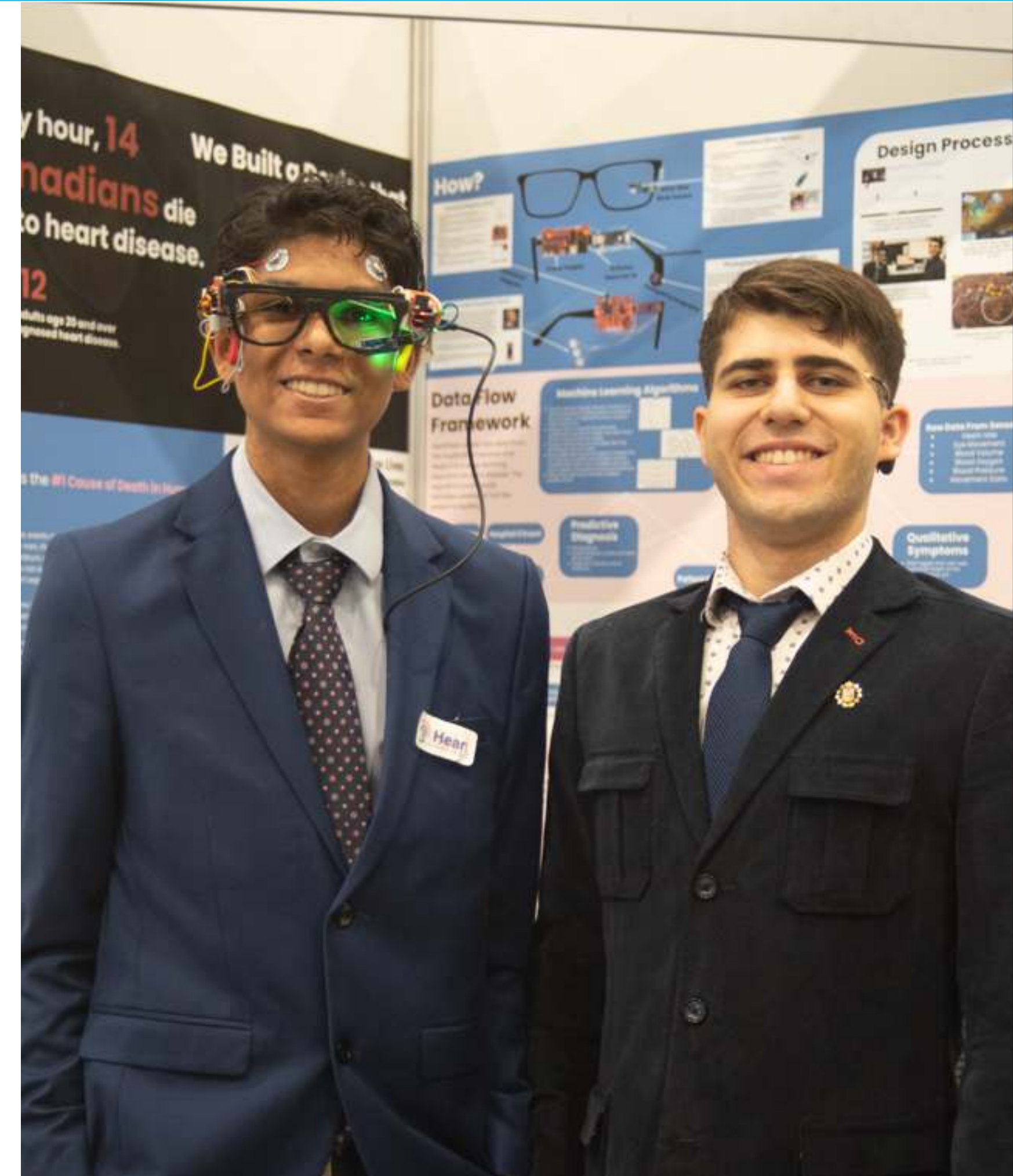
\$1,000 cash, a presentation award and a certificate  
1 000 \$ en argent comptant, prix de présentation et un certificat

# Saras Agrawal Rateb Ajamieh

**HeartHear: A Machine Learning Powered Ear-Wearable for Cardiovascular Disease Detection & Prediction**

Edmonton – Alberta

**YOUTH CAN**  
INNOVATE





## Youth Can Innovate Award

### Prix Jeunesse innovante

Senior / Sénior

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**Is the water safe to drink? The rapid test is the missing link!**

Canadian Black Scientists Network Youth

**YOUTH CAN**  
**INNOVATE**





## Youth Can Innovate Award

## Prix Jeunesse innovante

Senior / Sénior

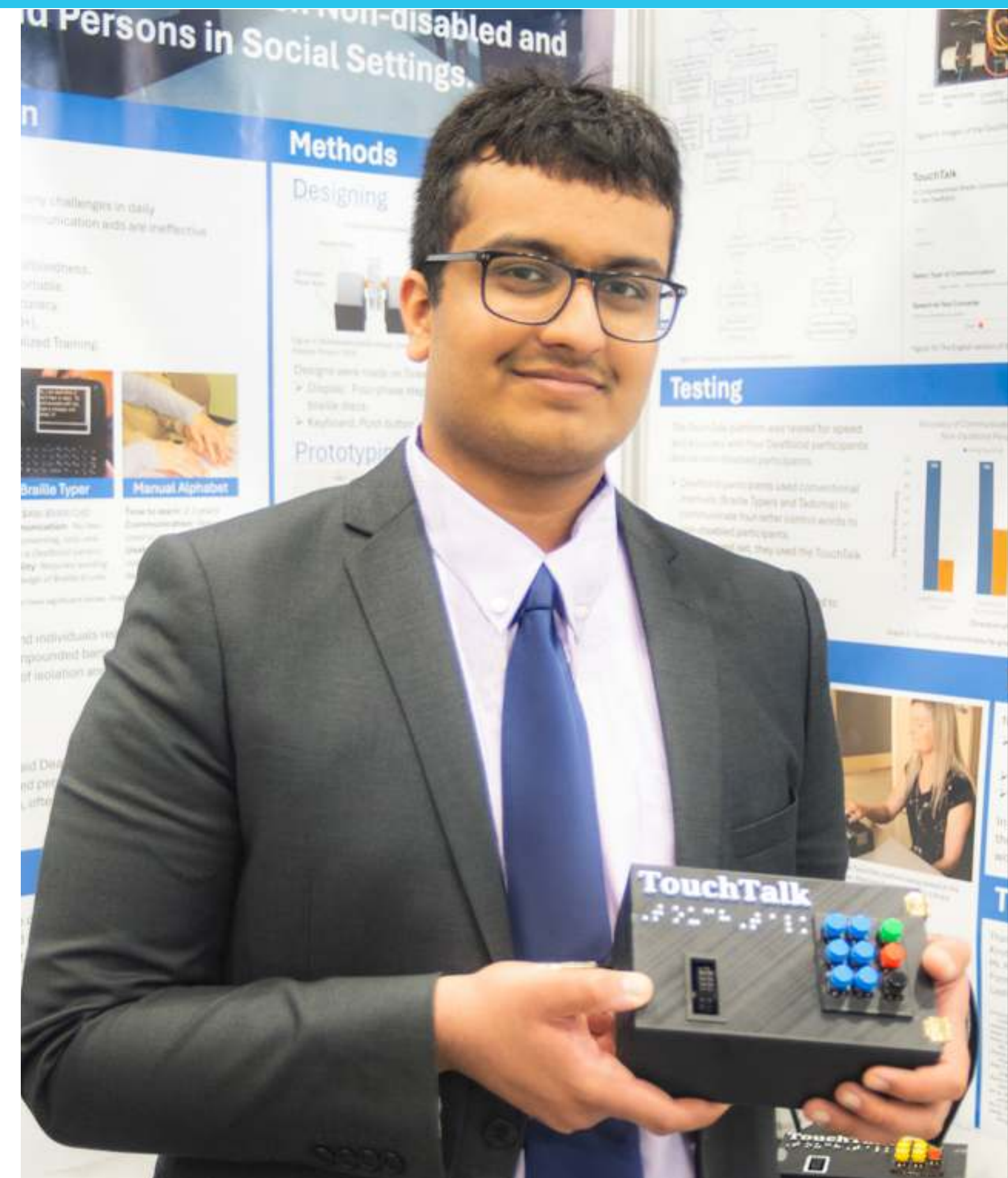
\$1,000 cash, a presentation award and a certificate  
1 000 \$ en argent comptant, prix de présentation et un certificat

## Joti Gokaraju

### TouchTalk: A Novel Braille Communication Platform for the Deafblind

Saskatoon – Saskatchewan

**YOUTH CAN**  
INNOVATE





## Youth Can Innovate Award

### Prix Jeunesse innovante

Senior / Sénior

\$1,000 cash, a presentation award and a certificate  
1 000 \$ en argent comptant, prix de présentation et un certificat

## Veronica Guo

**A Novel, Cost-Effective Biological Photovoltaic for Wastewater Treatment**

Greater Vancouver – British Columbia

**YOUTH CAN**  
INNOVATE





## Youth Can Innovate Award

### Prix Jeunesse innovante

Senior / Sénior

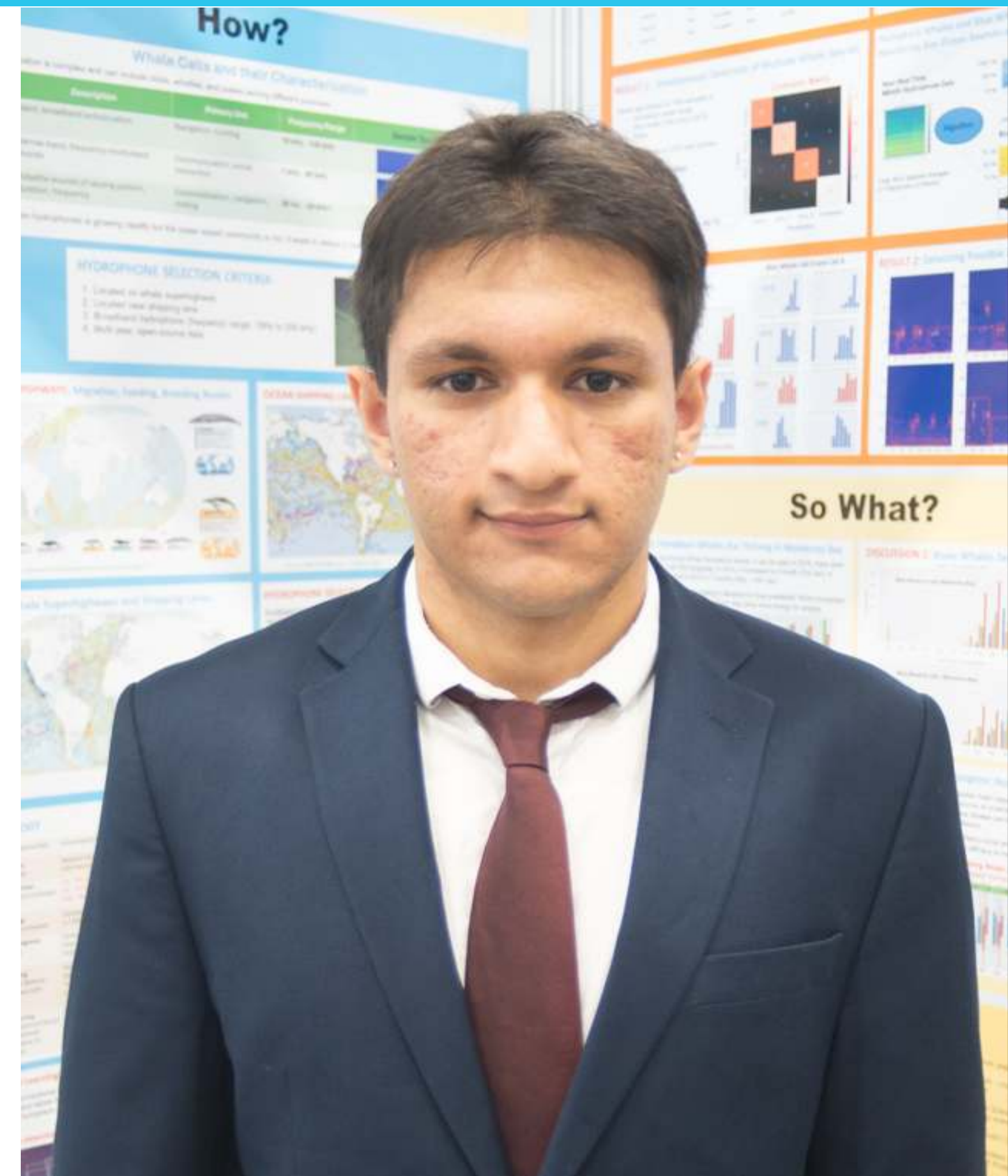
\$1,000 cash, a presentation award and a certificate  
1 000 \$ en argent comptant, prix de présentation et un certificat

## Artash Nath

**Deep Learning for Marine Mammal Conservation: Multi-Species Detection and Underwater Noise Assessment**

Toronto – Ontario

**YOUTH CAN**  
INNOVATE





## Youth Can Innovate Award

### Prix Jeunesse innovante

Senior / Sénior

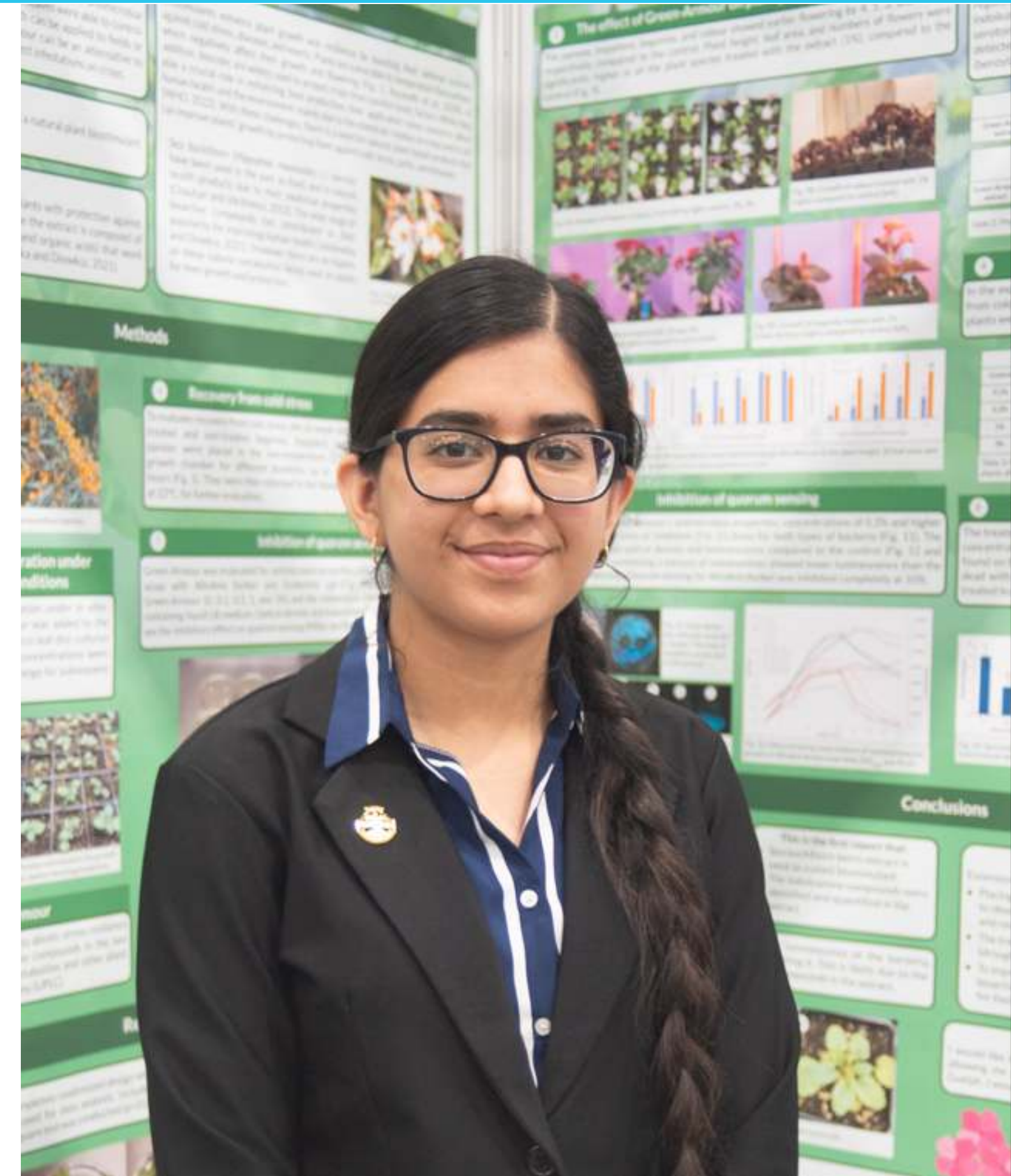
\$1,000 cash, a presentation award and a certificate  
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## Roocha Shukla

### Green-Armour: A Novel Plant Biostimulant

Waterloo-Wellington – Ontario

**YOUTH CAN**  
INNOVATE





## Youth Can Innovate Award Prix Jeunesse innovante

Senior / Sénior

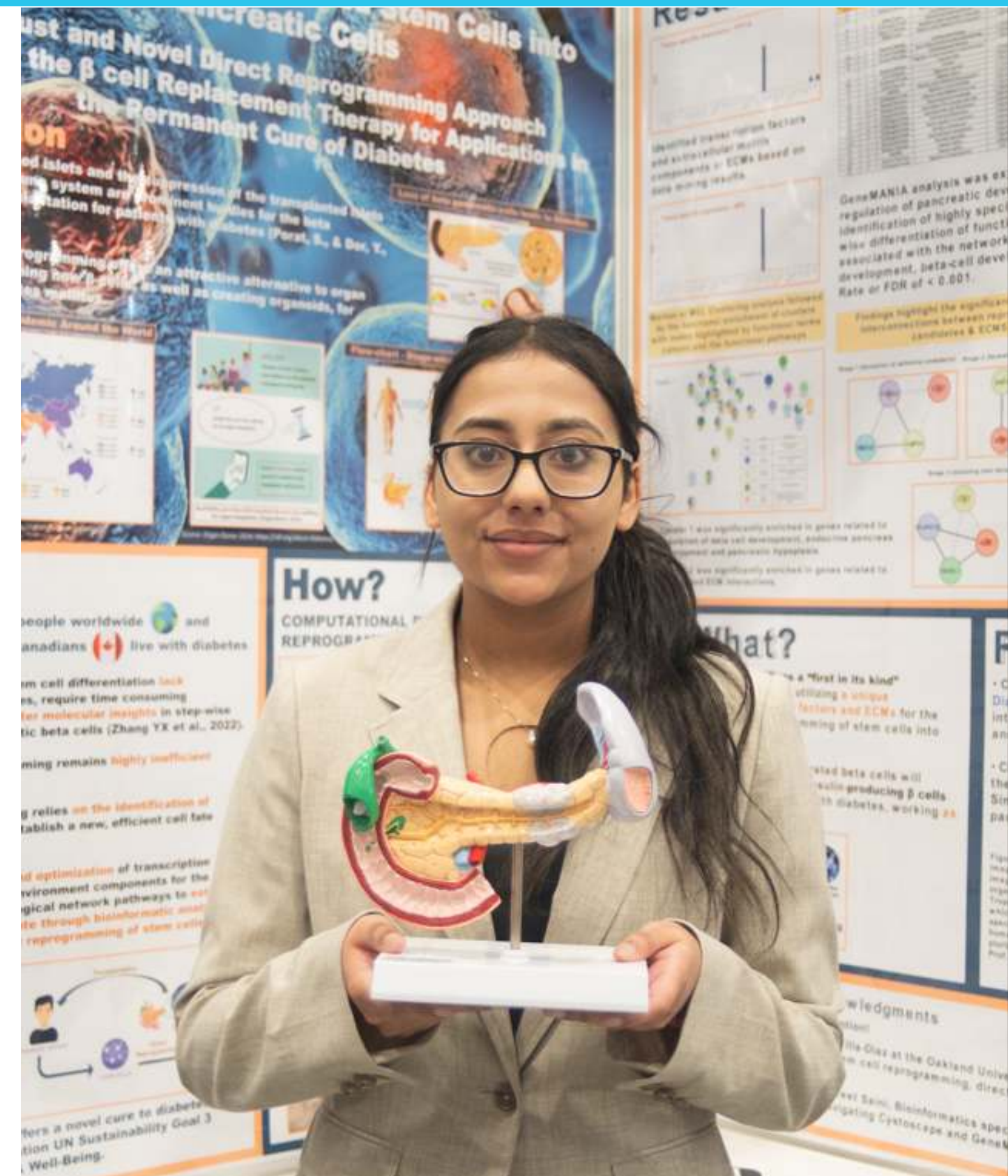
\$1,000 cash, a presentation award and a certificate  
1 000 \$ en argent comptant, prix de présentation et un certificat

## Sohila Sidhu

### From Liquid To Life: Reprogramming Urinary Stem Cells Into Beta Pancreatic Cells

Windsor – Ontario

**YOUTH CAN**  
INNOVATE





## Youth Can Innovate Award

## Prix Jeunesse innovante

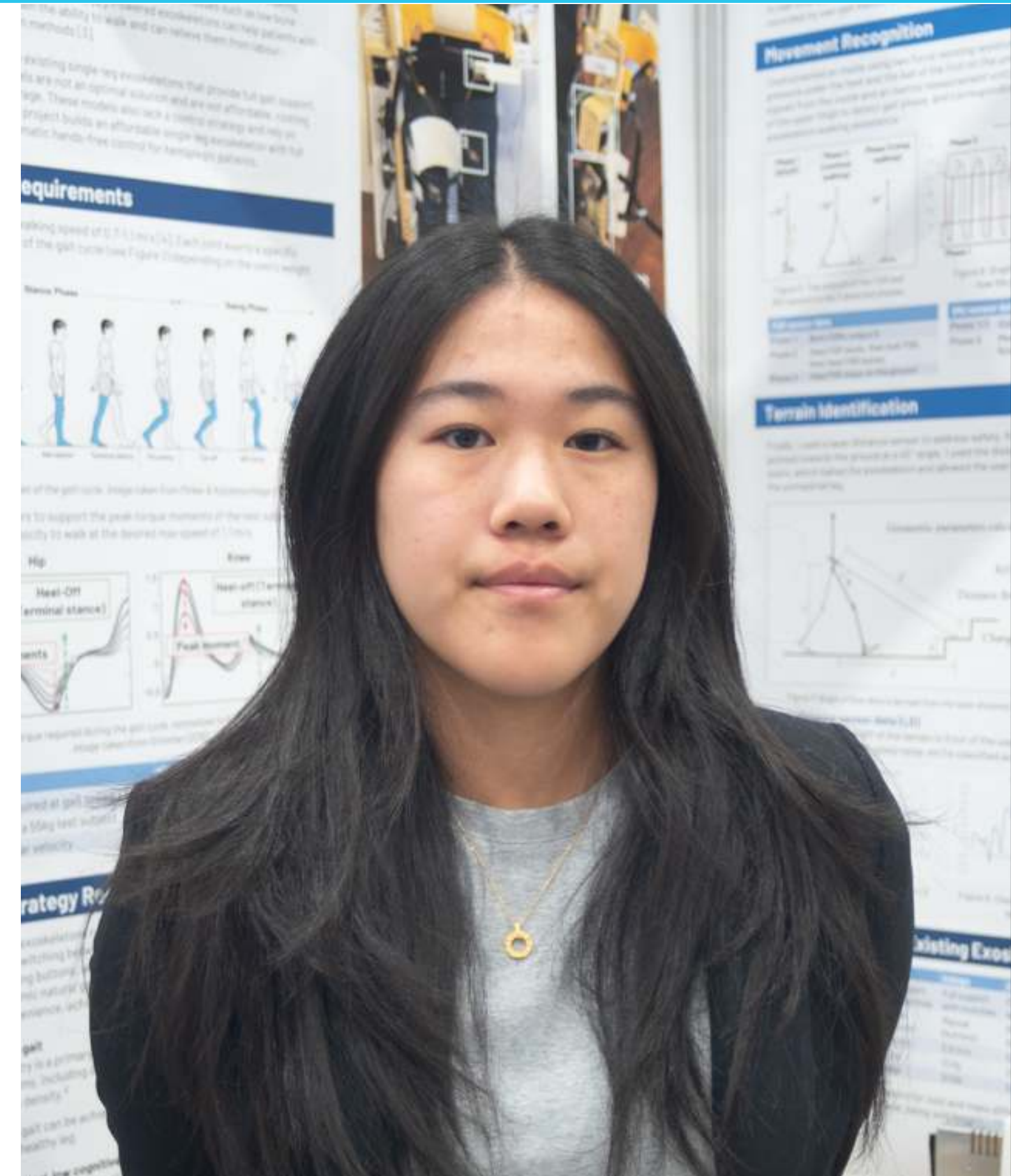
Senior / Sénior

\$1,000 cash, a presentation award and a certificate  
1 000 \$ en argent comptant, prix de présentation et un certificat

## Tara Zhan

### Design of a Hemiplegic Exoskeleton with an Automatic Control Strategy

Greater Vancouver – British Columbia





## Youth Can Innovate Award

## Prix Jeunesse innovante

Senior / Sénior

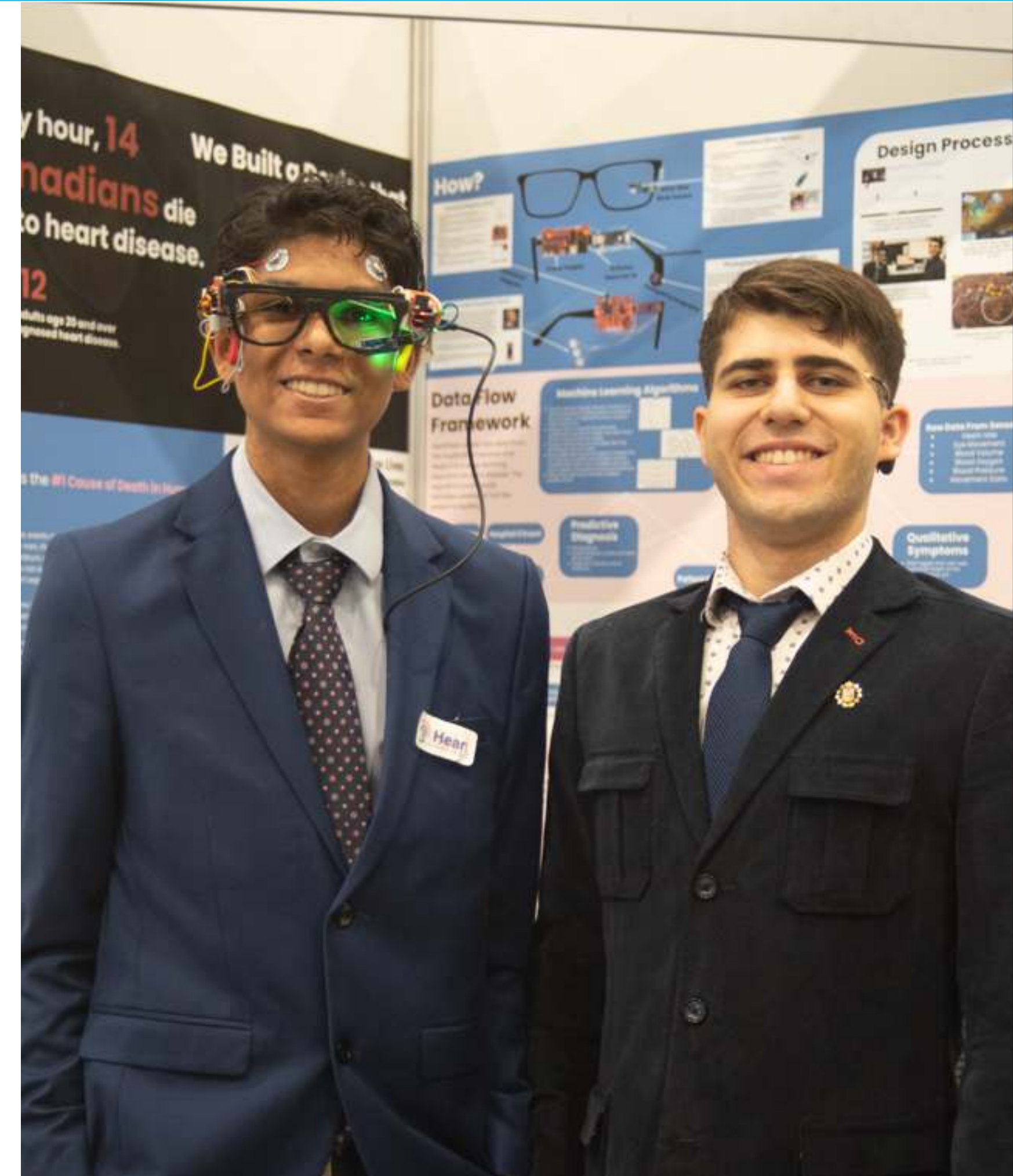
An additional \$7,000 cash award and certificate  
En plus une bourse de 7 000 \$ en argent comptant

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INNOVATE





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INNOVATE





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INNOVATE





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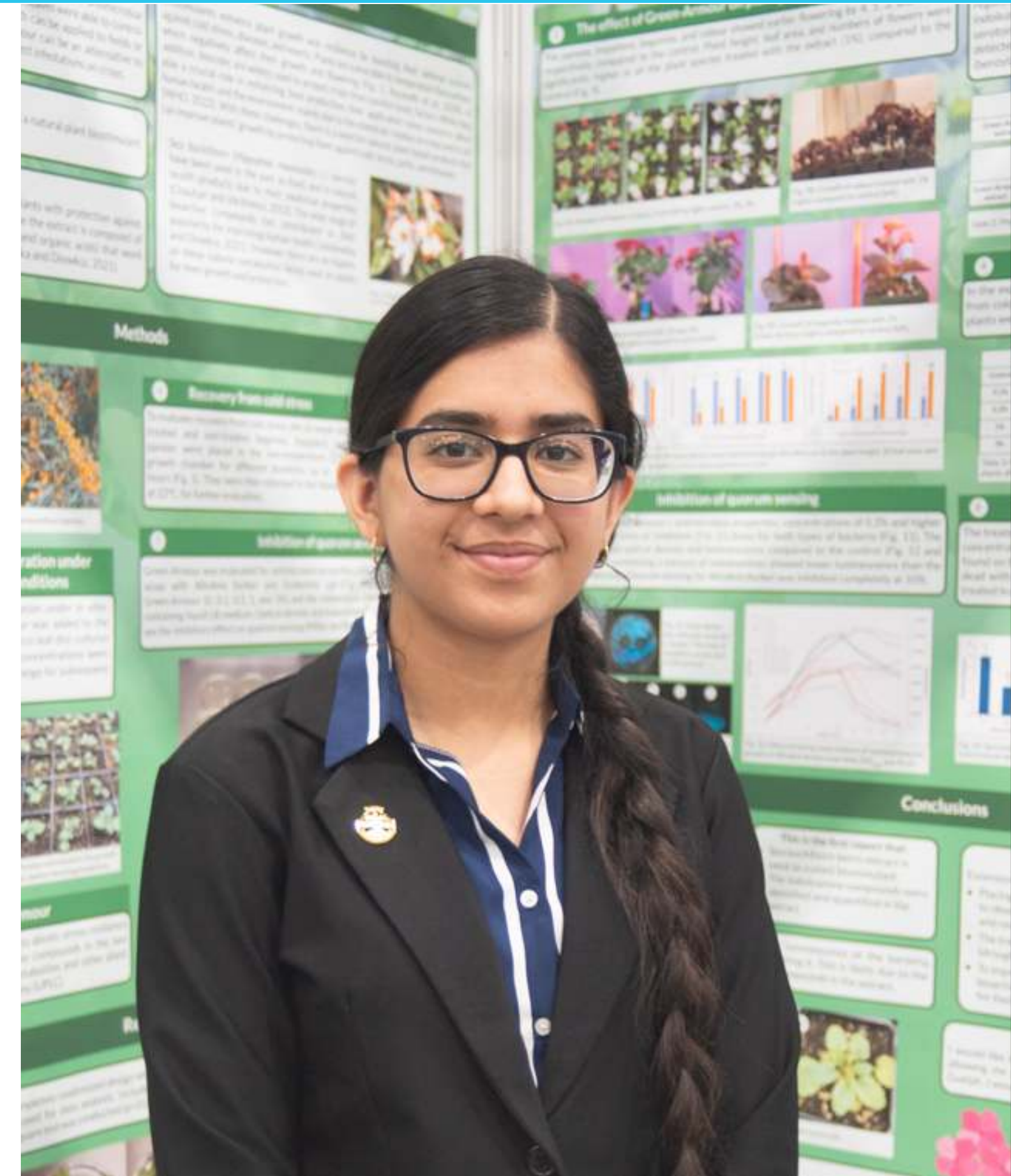
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Waterloo-Wellington – Ontario

**YOUTH CAN**  
INNOVATE





**Platinum Award - Discovery**

**Prix platine - découverte**

Junior

**Sarah Bykewich**

**Electroculture**

Edmonton – Alberta





**Platinum Award - Discovery**

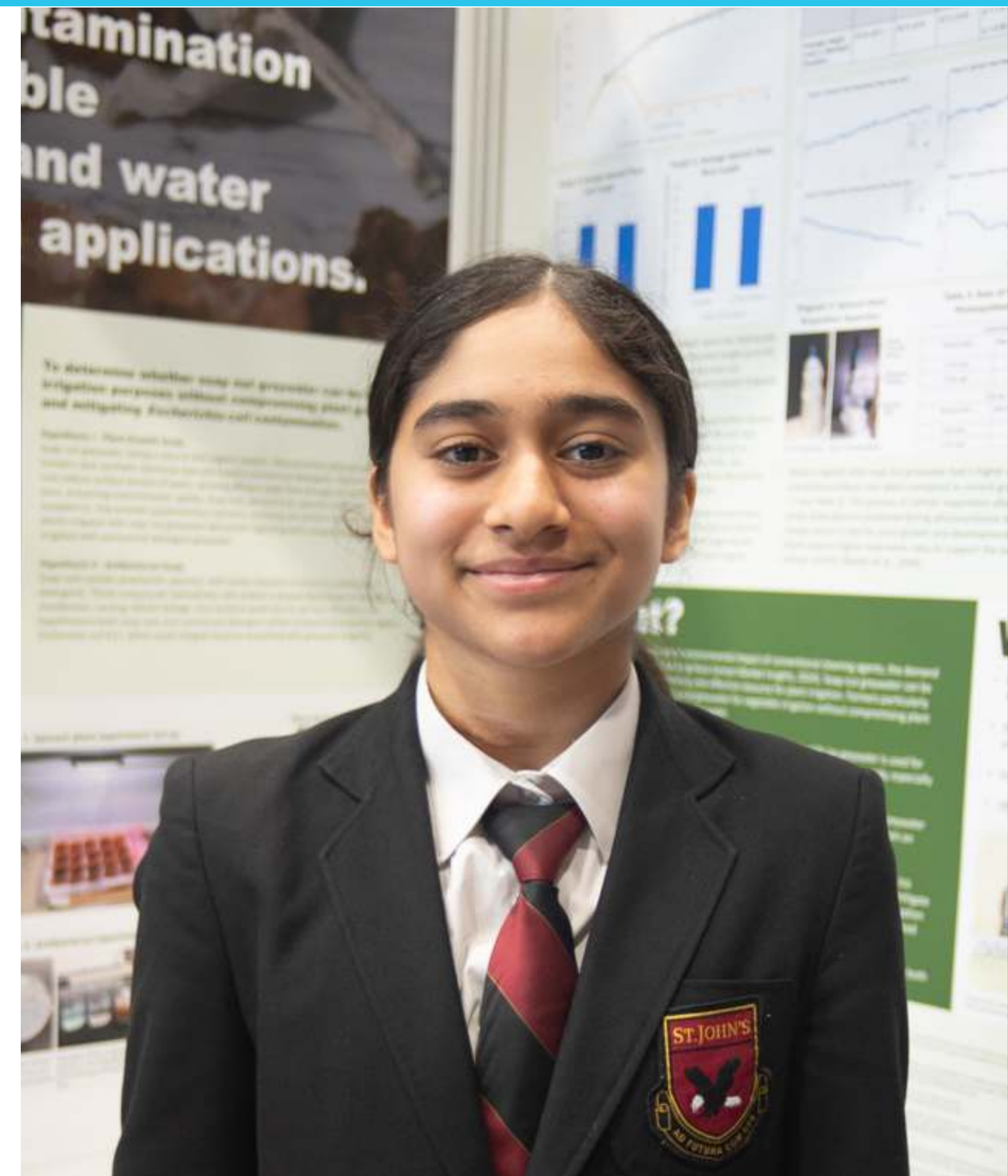
**Prix platine - découverte**

Intermediate / Intermédiaire

**Tanvir Mundra**

**Reviving Resources: Harnessing Soap Nut Greywater for Sustainable Plant Growth**

Greater Vancouver – British Columbia





**Platinum Award - Innovation**

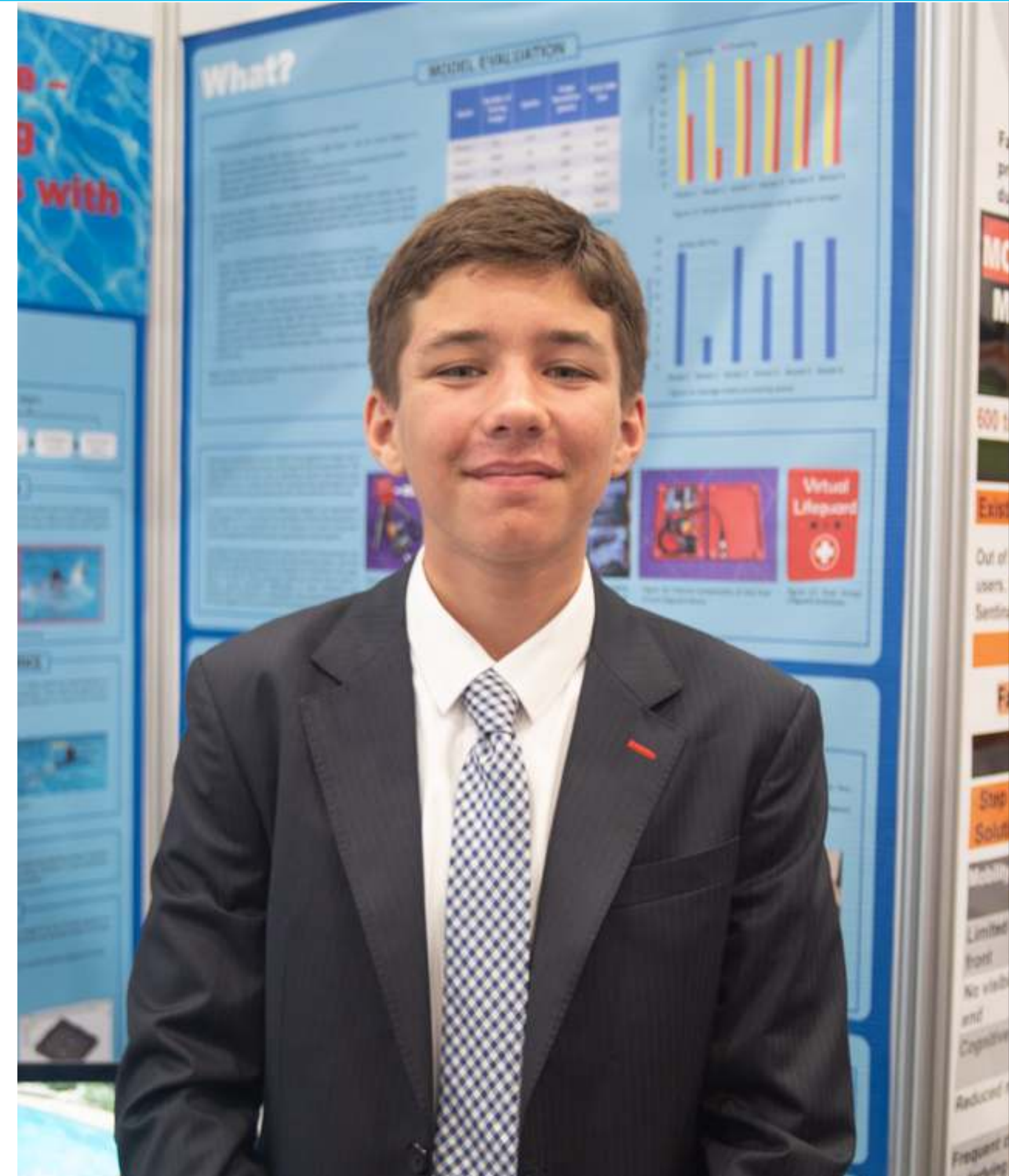
**Prix platine - innovation**

Junior

**Evan Budz**

**Virtual Lifeguard: A Novel AI Approach to Drowning Prevention**

Bay Area - Ontario





**Platinum Award - Innovation**

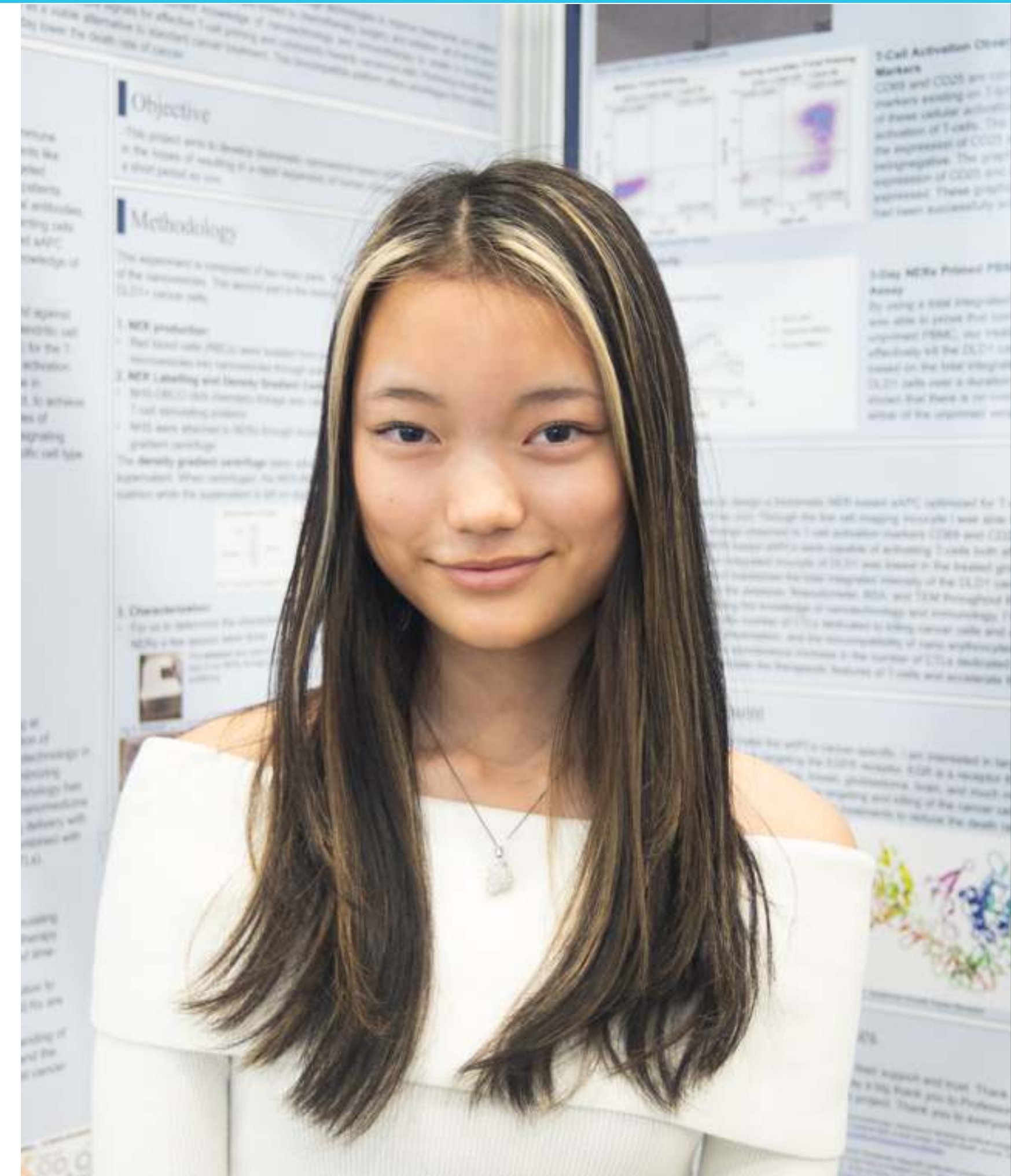
**Prix platine - innovation**

Intermediate / Intermédiaire

**Kathy Han**

**Designing Biomimetic Nanovesicles for Cancer Treatment**

Saskatoon - Saskatchewan



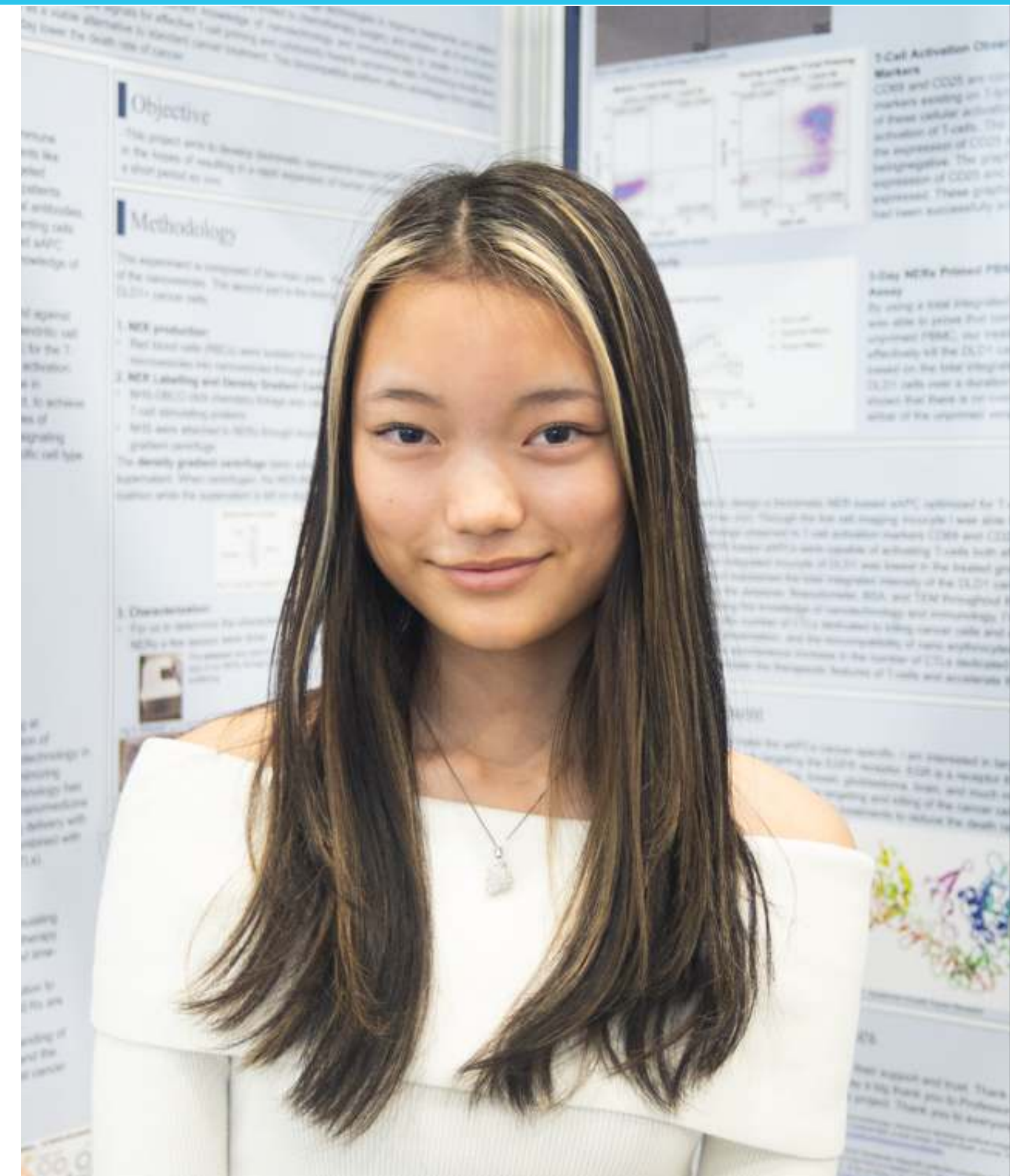


# Taiwan International Science Fair Expo-sciences internationale de Taïwan

## Kathy Han

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Saskatoon – Saskatchewan



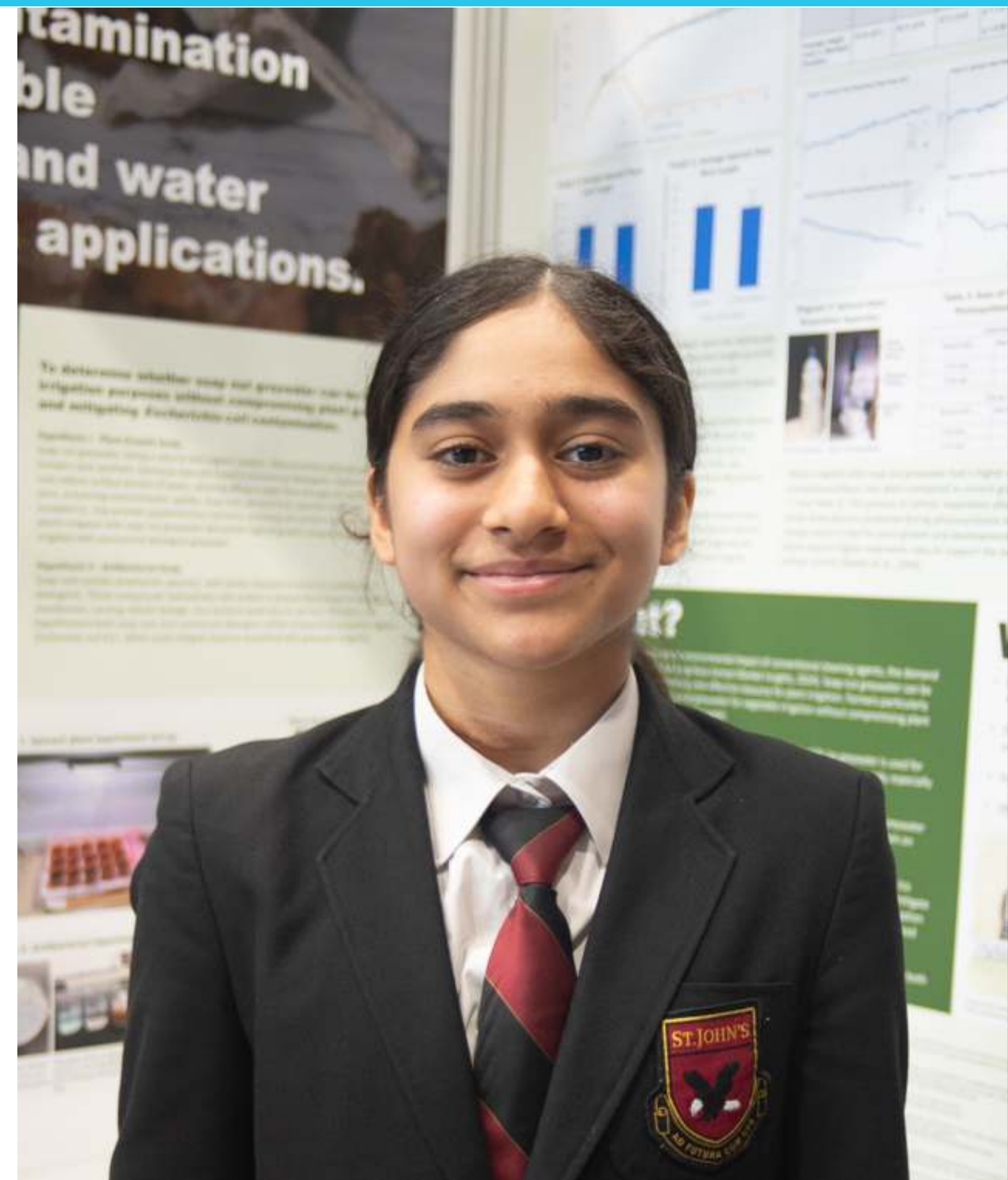


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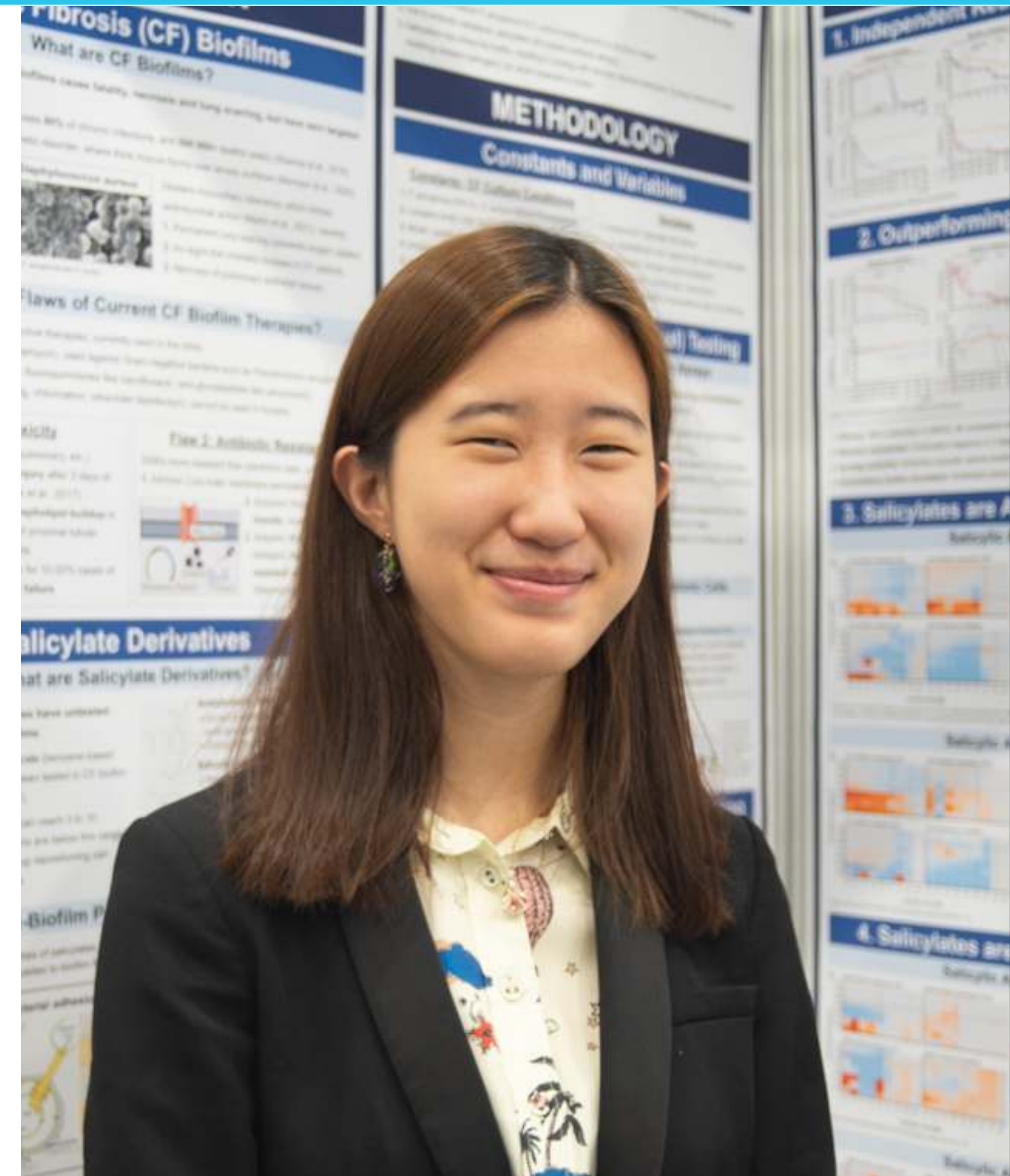


**Best Project Award - Discovery**  
**Prix du meilleur projet - découverte**

**Ann Wang**

**Eradicating Cystic Fibrosis Biofilms by a Novel Non-Toxic, Multi-Pathway Salicylate Therapy**

Greater Vancouver – British Columbia





**Best Project Award - Innovation**  
**Prix du meilleur projet - innovation**

**Angela Cao**

**S2S: AI-Powered Translation Between Sign and Spoken Languages**

Greater Vancouver – British Columbia

