

## **Education:**

**Canadian International School, Singapore | Aug 2010 – June 2019 & Sept 2020 to June 2024**

– International Baccalaureate: Primary Years, Middle Years & Diploma Program (Grades 1 –6 & Grades 9-12)

**Wesley College, Melbourne, Australia | Jan 2019- Aug 2020**

– International Baccalaureate: Middle Years Program (Grades 7 & 8)

## **Academic Honors & Awards**

- **Grade 11 (2022-2023)**
  - Honor Roll
  - Academic Progress Award for English Language & Literature (2022-2023)
- **Grade 10 (2021-2022)**
  - High Honor Roll, with distinction in Design Technology, Drama, Physical Education & Science
  - Academic Progress Award for Individuals & Societies
  - Academic Progress Award for Mandarin Language Acquisition
  - MYP Service Excellence Award (2020-2022)
  - MYP IB Personal Project Distinction (created a business plan for a carbon trading platform for B2B and B2C audience)
- **Grade 9 (2020-2021)**
  - Honor Roll, with distinction in Design Technology, Drama, Individuals & Societies
  - Academic Progress Award for Design



## **Environmental Science Experience. Research & Initiatives**

- **Internships at Climate Impact X (CIX), Singapore | Summer Break 2022 & 2023**
  - Interned at Asia's first Carbon Exchange, CIX, Singapore in 2022 & 2023 with a deliberate intent to understand the economics behind Sustainability, climate change, decarbonisation projects and initiatives.
  - Worked on carbon market analysis in 2021 with the communications team and worked on seaweed, renewable credit portfolios with the product development team in 2023.
- **Mangrove Ecosystems Literature Review (in review at the Journal of High School Science) | July 2022 – Oct 2023**
  - Literature review on the topic of human disturbance and its effect on key biodiversity relationship in Asian mangrove ecosystems.
  - The research paper was written under the guidance & mentorship of Dr. Natalie Chardon, a post-doctoral fellow at UBC, Canada
- **Report on novel AI applications in Environmental Studies | July 2023 – Nov 2023**
  - Used Cloud compute resources/machine learning on open data sets to provide insights on optimizing clean energy transition (fossil fuels to renewables)
  - Written under the guidance of Dr. Srinivasan Iyengar, CTO's Office, Energy Industry, Asia at Microsoft
- **Mangrove Initiative: Cherishing Coastal Ecosystems | April 2023**
  - Planned and executed a 5-day Mangroves educational program (coinciding with Earth Day programming) for 3100 students including gamification, fact & fun filled lectures highlighting the role of coastal ecosystems in climate change.
- **Extended Essay: A Sustainability Assessment of Singapore's Urban Farming Systems | Sept 2022 – Nov 2023**
  - Researched sustainable approaches to urban farming and conducted a sustainability analysis of Singapore's urban farms.
  - Suggested next steps to reduce food insecurity sustainably in Singapore.

## **Competitions**

- **Conrad Innovator Recognition, Team Name: Cytocycle | 2022 – 2023**
  - Designed the "Toino-kami" – a simple, production grade, low-cost sanitation system to address rural sanitation issues.
  - Conrad competition sent our team a note encouraging us to patent the idea and take the design idea to production.
- **Finalist for Singapore's Nation-Wide Competition: Green Nudge | June 2022**
  - As part of the Singapore Green Plan 2030 initiative - the Green Nudge was a Singapore nation-wide hackathon inviting all the Gen Z's (aged 16-21) to provide the Singapore Government with viable ideas to implement, – a Net Zero initiative.
  - I led a school team that designed and presented an idea around a Singapore-wide sustainable food composting system.
  - This idea was selected for possible future implementation in Singapore and recognized by the Senior Minister of State (Mr. Tan Kiat How)

## **Biology Experience, Research & Initiatives**

- **CREST Silver Award on the "Parallels of GERD Medications – An Investigation on the Importance of Chemical Rate of Reactions" | Sept 2022**
  - The silver award was received in recognition of an experimental research paper that studied the factors that influence the chemical rate of reaction between magnesium and hydrochloric acid.
  - This paper also suggested future research potential for acid reflux (GERD) medication.

- **Literature Review on Antibiotic Resistant Bacteria & Bacteriophages | Nov 2021**  
- Researched the environmental impact of antibiotic pollution and the global health crisis of emerging antibiotic resistant bacteria.  
- Analyzed both the medical and sustainability angle of bacteriophages in solving antibiotic resistant bacteria crisis.
- **UC San Diego Online Course Completion – Biology Meets Programming: Bioinformatics for Beginners | 2021**  
- This course focused on the application of Machine Learning (ML) and technology in Genetics.

#### **Community Outreach**

- **Built Biogas Chamber for Tamang Community in Bagmati, Nepal, Canadian International School CAS Project | Feb 2022**  
- Built biogas chambers for Tamal Community in Nepal. Project aimed to reduce deforestation rate through education efforts & providing renewable biogas sources.
- **Certificate of Recognition for Partnership in Supporting LGBTQ+ and Australian Aboriginal Communities, Wesley College, Melbourne, Australia | 2019 - 2020**  
- Fundraising through community bake sales to support vulnerable LGBTQ+ and aboriginal communities.
- **Participant at the International School Libraries Network (ISLN), [Canadian International School] | 2022**  
- Involved in conducting a literature analysis of 5 books, helped Canadian International School receive \$1000 to donate to the Terry Fox Foundation
- **Gymnast & Volunteer Gymnastics Coach at Raffles Gymnastics Academy Singapore | 2020 – Present**  
- Gained experience in training young future gymnasts (ages 3-5) through creating fun & engaging lessons  
- Participated & won 3<sup>rd</sup> place in Wesley Invitational multi-school Gymnastics competition in Melbourne, Australia in 2019.
- **Volunteer at Guide Dogs Victoria, Australia | 2019 - 2020**  
- I was a volunteer for Guide Dogs' fostering and training program.  
- The guide dog I trained went on to graduate as a guide dog.

#### **Leadership**

- **News “Editor-in-Chief” for The Print Organization | 2022 – Present**  
- The official monthly Newsletter of the Canadian International School. The Print supports student voices on array of topics: social issues, science & technology, climate change & sustainability. The readership of “The Print” is estimated at 3000 students across 2 campuses.
- **Executive Leader for Green Machine, Canadian International School | 2021 – Present**  
Introduced a food composting system to school community of 3,100 students, helped build a rooftop community garden & in process of designing a “Green Certificate”, an online sustainability course for students.
- **Symphonic Band: Flute Section Leader [Canadian International School] (2021 – Present)**  
Help coach young flutists & helped organize concerts. Involved in planning & organizing a musical cultural exchange between Fuhua Secondary School and Canadian International School music bands.

#### **Language Proficiency in Mandarin:**

- High School Award for Outstanding Academic Achievement in Chinese Language Acquisition 2021
- [The Goodtalk \(Global Village\) Children and Youth Bilingual Speech Conference](#), Australia Station Finalist, Certificate for 2<sup>nd</sup> placement (2019).
- Youth Chinese Test (YCT) Level 5 Certification (2022)

#### **Music & Theatre Endeavors:**

- ABRSM Flute (Grade 4) – Merit
- ABRSM Vocals (Grade 3) – Merit
- ABRSM Piano (Grade 4) – Distinction
- Actress in Hairspray Musical 2018 at St. Kilda National Theatre, Melbourne, Australia [Wesley College School]
- Actress in School of Rock Musical 2022 [Canadian International School]

**Interests & Hobbies:** Sustainability based advocacy & research, music, gymnastics, learning new languages, embracing nature-oriented activities like bird watching & snorkeling.

**References:** Ms. Elsa Baptista (elsa.baptista@cis.edu.sg), IB Diploma Program Coordinator [Canadian International School]