

Franklin Yeung

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HIGHLIGHTS OF SKILLS & ACHIEVEMENTS

- Numerous awards in physics olympiads, including bronze medal at international level
- International awards for innovation in synthetic biology and robotics
- Extensive experience working in an international setting and collaborating with people from diverse backgrounds
- Adaptability to different environments and ability to self-educate

SKILLS SUMMARY

- **Computer Skills:** Python, Java, C, HTML, CSS, JavaScript, L^AT_EX, ArcGIS, Adobe Suite (After Effects & Premiere Pro)
- **Soft Skills:** Leadership, Collaboration, Problem Solving, Public Speaking
- **Languages:** English, Cantonese Chinese, Mandarin Chinese

EXPERIENCE

- **D&C Consulting** Macao, China
Software Engineer (Summer Trainee) May 2023 - Aug 2023
 - **Project Assistant:** Implemented a Geographic Information System platform for an electric utility in Hong Kong.
- **University of Toronto Hong Kong Students Association** Toronto, Canada
External Relations Executive (Full-time) Oct 2021 - Apr 2022
 - **Inter-organization:** Maintained relations with other organizations at UofT as well as other universities.
 - **Individuals:** Planned, organized, and oversaw all UTHKSA events held in collaboration with other organizations.
- **Team PuiChing Macau at iGEM 2020** Macao, China
Instructor (Part-time) Jan 2020 - Nov 2020
 - **Web Development:** Taught and assisted team members to build a web page to display information on their project.
 - **Presentations:** Instructed and gave criticism for presentations that the team were to give at judging sessions.

PROJECTS

- **Regular Expression Toolkit (Project for CSC207H1: Software Design):** Our project facilitates the teaching of regular expressions in computational language theory by providing features including matching between text strings and regular expressions, and visualization of Finite State Automata (FSA) associated with the regular expressions. GitHub repo: github.com/CSC207-UofT/course-project-uwutever (Oct 2021)
- **A Sustainable System For Endocrine Disrupting Chemical Degradation (Project for iGEM 2019):** Our project was aimed at solving the Endocrine Disrupting Chemicals (EDCs) water pollution problem. EDCs are a collection of chemicals that have adverse effects on humans. In this project, we used engineered E. coli BL21 (DE3) to produce our selected laccases which had the ability to degrade EDCs. My main participation in this project were in Human Practices and Media, including interviewing water treatment facilities, building the team web page, and presenting the project to judges on behalf of the team. Team wiki: 2019.igem.org/Team:PuiChing_Macau (Jun 2019)
- **Aerial Mapping And Scouting System (aka AMASS):** Co-created the system, which uses a RGB-Depth camera mounted onto an unmanned aerial vehicle to scan a building's interior environment utilizing SLAM (Simultaneous Location And Mapping) technology. A 3D model is then generated and made available to view and measure. The objective of the system is to aid rescue teams in their missions after catastrophes such as earthquakes or bombings. This was the project which we took to several science fairs, including the 34th CASTIC, listed below. (Aug 2018)

EDUCATION

- **University of Toronto** Toronto, Canada
Honours Bachelor of Science - Computer Science Major, Physics Major, Mathematics Major Sep 2020 - Present
Expected Graduation Jun 2024
Two-time Dean's List Scholar, Fully funded with Special Merit Scholarship awarded by Macau Foundation

HONOURS AND AWARDS

- **Bronze Medal, International distributed Physics Olympiad 2020** Remote
Held under endorsement on the IPhO board after IPhO 2020 was cancelled due to the pandemic Dec 2020
- **Gold Medal, International Genetically Engineering Machine Competition 2020** Remote
Synthetic Biology competition originating in MIT; Role: Instructor Nov 2020
- **Gold Medal, International Genetically Engineering Machine Competition 2019** Boston, U.S.A.
Synthetic Biology competition originating in MIT; Role: Media Team Leader Nov 2019
- **Second Prize, 34th China Adolescents Science & Technology Innovation Contest** Macao, China
China Qualifier for International Science and Engineering Fair Jul 2019
- **Honourable Mention, International Physics Olympiad 2019** Tel Aviv, Israel
Most prestigious physics competition for high school students Jul 2019
- **Second Prize, 21st Hong Kong Youth Science & Technology Innovation Competition** Hong Kong, China
Hong Kong Qualifier for International Science and Engineering Fair Mar 2019