# Christina Pizzonia

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#### **EXPERIENCE**

## Summer Research Student

May 2022 - Aug 2022

Passeport Lab

Toronto, ON

- Processed stormwater samples via density separation & organic digestion (in accordance with lab SOPs)
- Analyzed microplastic content data in Microsoft Excel to determine sources of error & improve accuracy of counted samples by >50%
- Performed a literautre review (15 papers) on organic contaminant extraction methods

Research Assistant

May 2021 - Nov 2021

SickKids Hospital

Toronto, ON

 Created and presented figures using BioRender to illustrate the mechanisms behind current advances in cancer immunotherapy to incoming undergraduates

**Tutor**Prestige Tutoring
Mar 2021 - Present
Vaughan, ON

- Developing lessons for neurodiverse students (grades 3-12) with parental input
- Have improved student scores by up to 25% in calculus, algebra, functions, chemistry, physics and elementary math

#### **PROJECTS**

**Sauna Redesign:** Designed a fully off-grid sauna in Rhino/Photoshop for Concord Investments' President David Delaney; Milestones followed a waterfall methodology and were tracked in Microsoft Project.

Manhattan Plots: Performed a GWAS (generated plots) to determine single nucleotide polymorphisms influencing ERAP-2 expression in Utah residents with EU ancestry and Yoruba individuals from Nigeria in R with data from the 1000 Genomes project.

#### **SKILLS**

**Languages** C/C++, Python, MATLAB, R, LATEX

**Frameworks** Pytorch, TensorFlow Web Development HTML, CSS, JavaScript

PCB Design & CAD AutoCAD, Rhino, Altium, LTSpice

#### **EDUCATION**

## Bachelor of Applied Science, Computer Engineering, University of Toronto

2022 - 2027

- Dean's Honours List (cGPA: 3.97/4.00)
- Hardware Lead @ UofT iGEM, ECE Mentorship Program

#### Semester Abroad, University of Siena

Summer 2023

- Summer Abroad outreach coordinator
- Static website documenting the experience in progress

### Ontario Secondary School Diploma, University of Toronto Schools

2015 - 2021

• Governor General's Medal (highest cumulative average)