

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 literature 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

Mar 2021 - Present

[Self-Employed](#)

Toronto, ON

- Have improved student scores by up to 25% in calculus, advanced functions and chemistry

PROJECTS

Autonomous Robot [[GitHub](#)]: Designed and programmed an autonomous, line-following robot using Fusion360 and Arduino to navigate a track using both bang-bang and PID control algorithms.

Manhattan Plots [[Results](#)]: Performed a GWAS 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++, Arduino, Python, MATLAB, R, \LaTeX

Frameworks

Pytorch, TensorFlow

Web Development

HTML, CSS, JavaScript

PCB Design & CAD

AutoCAD/Fusion360, Rhino, Altium, LTSpice

EDUCATION

Bachelor of Applied Science, Computer Engineering, University of Toronto

2022 - 2027

- Dean's Honours List (cGPA: 3.97/4.00)
- ECE Mentorship Program

Summer Abroad, University of Siena

Summer 2023

- Summer Abroad outreach coordinator
- [Website](#) documenting the experience in progress

Ontario Secondary School Diploma, University of Toronto Schools

2015 - 2021

- Governor General's [Medal](#) (highest cumulative average)