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) for identification via FTIR spectroscopy
- 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 25% in calculus, advanced functions and chemistry

PROJECTS

Autonomous Robot [GitHub]: Designed and programmed an autonomous, line-following robot using Fusion 360 and Arduino to navigate a track using both bang-bang and PID control algorithms.

Sauna Redesign [Slides]: 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 [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

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)