

Lisa-Monique Edward, B.M.Sc.

Aspiring Physician-Scientist



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Summary

A recent graduate of Western University's Bachelor of Medical Sciences program with an Honors Specialization in Computational Biochemistry. I am an aspiring Physician-Scientist currently employed as a Bioinformatician in a Precision Oncology program at the Hospital for Sick Children seeking to gain further experience in the medical field.

Experience

Bioinformatician (Dr. A. Shlien)

SickKids / Toronto, ON / 2019 - Present

Developing novel analysis pipelines and maintaining and improving existing pipelines. Providing technical (data transfer, analysis and programming) assistance to students, fellows and researchers.

Honors Thesis Student (Dr. A. Poon)

Western University / London, ON / 2018 - 2019

Developed and utilized a novel visualization tool in R to assess genetic diversity in NGS datasets.

Research Summer Student (Dr. A. Shlien)

SickKids / Toronto, ON / May 2018 - Aug 2018

Explored the association between DNA methylation and transcriptional output in a dataset of over 5,000 cancers using R and Python.

Research Student (Dr. G. Gloor)

Western University / London, ON / 2018 Jan - Apr

Studied the relationship between effect size, power and sample size using simulated RNA-Seq experiments in R.

Research Student (Dr. D. Litchfield)

Western University / London, ON / 2017 - 2018

Investigated the role of Protein Kinase CK2 in the DNA Damage Response using bioinformatics analyses and biochemical studies.

Web Designer, Faculty of Science

Western University / London, ON / 2017 - 2018

Created Jekyll templates for research group and faculty websites as part of Western University's work-study program.

Education

(Hons) Bachelor of Medical Sciences (B.M.Sc.)

Western University / London, ON / 2016 - 2019

Computational Biochemistry (with distinction).
Dean's List 2016 - 2019. GPA: 87%

Awards

Rossiter Award for Research Excellence

Western University / 2019 / 1 of 1

Highest academic achievement in Biochemistry honors thesis research project.

OAS Undergraduate Caribbean Scholarship

\$15,000 USD / 2018 / 1 of 8

Google Generation Scholarship

\$5,000 / 2018 / 1 of 15

International President's Scholarship

Western University / \$50,000 / 2016 / 1 of 3

Involvement

MedHacks Campus Ambassador & Top 10 Finalist

John's Hopkins Hospital / Baltimore, MD / 2018

SheHacks II Organizer & VP Communications

Women in Tech Society / London, ON / 2017 - 2018

Skills

- Experience in: Unix/Linux Systems, HPC Environments
- Scripting: Python, R, Bash
- Web development: HTML, CSS, JS / JQuery
- Other languages: WDL, Java, C