




LISA-MONIQUE EDWARD

BIOINFORMATICIAN

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BIOGRAPHY

Knowledgeable and skilled Bioinformatician with a passion for cancer research with 4 years' experience in translational genomics research programs.

 /lisa-moniqueedward
 /lisa-monique
 /lisa-monique.github.io

EXPERIENCE

- **BIOINFORMATICS CONTRACTOR**
Roche/Genentech / Toronto, ON / Apr 22 – Present
Upgrading and evaluating Nextflow pipelines as part of NHL Panel Expansion & IVD effort.
- **BOINFORMATICIAN (Dr. A. Shlien)**
SickKids / Toronto, ON / Aug 19 – July 22
Maintained, improved and developed novel WDL analysis pipelines for KiCS precision oncology program. Provided technical assistance/expertise to students, fellows and researchers. *Previous: Research Technologist*
- **HONORS THESIS STUDENT (Dr. A. Poon)**
Western University / London, ON / Sep 18 – Apr 19
Developed and utilized a novel visualization tool in R to assess genetic diversity in NGS datasets.
- **RESEARCH STUDENT (Dr. A. Shlien)**
SickKids / Toronto, ON / May 18 – Aug 18
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 / Jan 18 – Apr 18
Studied the relationship between effect size, power and sample size using simulated RNA-Seq experiments in R.
- **WEB DESIGNER, FACULTY OF SCIENCE**
Western University / London, ON / Oct 17 – Apr 18
Created Jekyll templates for research group and faculty websites as part of work-study program.

EDUCATION

- **HONS BACHELOR OF MEDICAL SCIENCES**
Western University / London, ON / Sep 16 – Apr 19
Computational Biochemistry (with distinction).
GPA: 87%. Completed 4-year program in 3 years.
Dean's List. Western Scholars designee.

AWARDS

- **ROSSITER AWARD FOR RESEARCH EXCELLENCE**
Western University / 2019 / 1 of 1
- **GENERATION SCHOLARSHIP**
Google / 2018 / 1 of 15 / \$5,000
- **UNDERGRADUATE CARIBBEAN SCHOLARSHIP**
OAS / 2018 / 1 of 8 / \$15,000 USD
- **INTERNATIONAL PRESIDENT'S SCHOLARSHIP**
Western University / 2016 / 1 of 3 / \$50,000

INVOLVEMENT

- **JUDGE, BLACK WINGS HACKS**
Rewriting the Code / Toronto, ON / Feb 21
- **PANELIST, INAUGURAL EVENT**
St. Lucian Young Leaders in Canada / Toronto, ON / Mar 20
- **CAMPUS AMBASSADOR/FINALIST, MEDHACKS**
John's Hopkins Hospital/ Baltimore, MD / Sep 18
- **EDITOR-IN-CHIEF (prev. ARTISTIC DIRECTOR)**
Scholars' Publications House / London, ON / Oct 16 – Apr 18

SKILLS

- Experience in: Unix/Linux Systems, HPC Environments, version management
- Programming: Python, R, Bash, Java, C
- Web development: HTML, CSS, JS/JQuery
- Pipeline development: WDL, Cromwell, Singularity, Nextflow
- Other: Latex, YAML, JSON, SQL, MongoDB
- Clinical: Clinical terminology (certification), working with confidential patient information
- Personal: Detail oriented, quick learner, independent worker, team-player