Madhuran Thiagarajah BSc, MLT

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Objective: To assist in the development, implementation and use of technology and informatics solutions to promote human health and well-being through genomic medicine.

Education

University of Waterloo September 2017 – Current
   Master of Health Informatics (MHI)
The Michener Institute September 2013 – February 2015
   Post Graduate Diploma - Genetics Technology
University of Waterloo September 2009 – April 2013
   Bachelor of Science (BSc) - Biomedical Science

Skills and Knowledge

Technical		Soft
R	••••	Teamwork
Python	•••	Systems Thinking
Bash	••	Collaboration
SQL	•••	Communication
Node.js	••	Public Speaking

Clincal Genetics, Cancer Informatics, Clinical Trials, Molecular Biology, Statistical Reasoning, Literature Review

Employment

University Health Network - Research Technician   Toronto,ON
March 2015 – April 2018
   • Molecular profiling of tumor samples using NGS and other molecular techniques such as MLPA and Sanger sequencing
   • Performed analysis on NGS data
   • Worked as effective member in a highly collaborative team environment
   • Took part in various continuing education events such as lectures, workshops & conferences
   • Participated in journal clubs and reviewed and presented journal article on machine learning in genetics and genomics

Clinical Placements

Mount Sinai Hospital - Student Genetic Technologist   Toronto,ON
Sept 2014 – February 2015
   • Performed routine and cytogenetic techniques such as:
     G-Banding, cell culture, fixation, FISH etc.
   • Performed routine molecular genetics techniques such as:
     DNA/RNA extractions, Sanger sequencing, MLPA, RFLP
   • Worked with a variety of samples including prenatal tissues and FFPE samples
   • Worked on validation and protocol development for automated FFPE extraction
   • Participated in several continuing education activities including:
     Genetic counsellor shadowing, medical rounds, amniocentesis observation, seminars etc.

University Health Network - Student Genetic Technologist   Toronto,ON
December 2014
   • Performed routine karyotyping
   • Performed routine cytogenetic cell processing, fixation and slide preparation
   • Reviewed and presented journal club paper on cancer sequencing study design

Volunteer & Activities

Hack the North 2018: Hacker/ Participant - Successfully completed and presented project. Attended talks and workshops on data science, web development and distributed computing.
Equithon 2018: General Volunteer - Assisted with set-up, tear-down, registration, and served food to participants.
UHN SPICE + B 2016: Summer Program In Clinical Epidemiology and Biostatistics - Learned about real world clinical importance of statistical reasoning and analysis. Completed workshop activities

Projects

Stayin Alive - Hack The North 2018 team project: Analysis and visualization for SNPs associated with time-to-event data (eg. adverse drug events). *Tools: Python3 w/ Lifelines, pandas, & Bokeh libraries*
Personal Website: Personal page to experiment with web-development, share information about myself, and to showcase projects *Tools: HTML, CSS, JS, Bootstrap*

Professional Affiliations / Certifications

   • College of Medical Laboratory Technologists Ontario - Member in good standing from March 2015 - present
   • Digital Health Canada - Student Member from September 2018 - present

References available. Please request.