

EDUCATION & CLINICAL TRAINING

June 2025 – July 2027	McGill University, Medical Oncology Fellowship McGill University Health Centre, Cedars Cancer Centre, Jewish General Hospital.
2022 – 2025	University of Toronto, Internal Medicine Residency – FRCPC Toronto General Hospital, Mount Sinai Hospital, Toronto Western Hospital. <i>Fellow of the Royal College of Physicians and Surgeons of Canada (FRCPC) exam passed 2025.</i>
Sept 2017 – Jan 2021	Stanford University, School of Engineering – PhD & MS Supervisors: Prof. Shan X. Wang, Prof. Aaron M. Newman. <i>NSERC Graduate Student Fellow.</i> Thesis: <i>Circulating Cellular Prognostic Biomarkers for Cancer.</i>
2015 – 2022	University of Toronto, Faculty of Medicine – MD MD years 1 & 2 2015 – '17, PhD '17 – '21, MD years 3 & 4 '20 – '22. <i>Golden Stethoscope Award.</i>
2015	University of Toronto – Honors Bachelor of Science. Physics & Chemistry Double Major.
2013, 2014	California Institute of Technology (Caltech) – Summer Undergraduate Research Fellow

SELECTED ACADEMIC WORKS & INTELLECTUAL PROPERTY

2024	Single-cell Profiling and Integrative TCR Analysis Reveals Tumor-mutation Associated Phenotypes and Immune Repertoire in Lung Adenocarcinoma. Poster at European Society for Medical Oncology (ESMO), 2024. First author. <i>ESMO merit travel grant award.</i>
2022	T cell characteristics associated with toxicity to immune checkpoint blockade in patients with melanoma. <i>Nature Medicine</i> 13 Jan 2022. First co-first author. Thesis paper.
2022/23	Liquid Biopsy Analysis of Cellular States to Predict Immunotherapy Toxicity. US application 18/729,150 International application PCT/US2023/060573. Third author.
2021	Clinical longitudinal evaluation of COVID-19 patients and prediction of organ specific recovery using artificial intelligence. <i>Precision Clinical Medicine</i> 4.1 (2021): 62-69. Corresponding author.
2021	Giant Magnetoresistive Nanosensor Analysis of ctDNA EGFR Mutations for Rapid Diagnosis and Therapy Response Monitoring. <i>Clinical Chemistry</i> 67.3 (2021): 534-542. Fourth Author.
2020	Phenotate: A Web-Based Tool for Crowdsourcing Phenotype Annotations. <i>Genetics in Medicine</i> 22.8 (2020): 1391-1400. Third Author.

RELEVANT EXPERIENCE

2022 – Present	Co-inventor, LiquidCell DX Inc. – Company generated from my PhD thesis to commercialize our pre-treatment blood biomarker for predicting immune related adverse events in patients with melanoma undergoing treatment with immunotherapy.
2018 – 2019	Software Co-lead, Preventa Medical Corporation – Developed app and machine learning for automated retina analysis to detect diabetic retinopathy. Enrolled in two related classes at Stanford Graduate School of Business in Cardinal Ventures (Stanford) Spring 2019 Cohort.

MEDICAL LICENSURE, TECHNICAL SKILLS, ETC.

Technical Skills Python/R, machine learning, stats, bioinformatics, biomarker discovery, oncology literature appraisal
Medical License & Certifications Independent Practice Licence, Ontario, Canada (CPSO). Fellow of the Royal Society of Physicians of Canada (FRCPC). Pathway to US Medical Licensure. | **US Work Authorization** Self-initiated Green Card Application underway. | **Memberships** Cancer Societies: ASCO, AACR, ESMO, CAMO. Medical Associations: OMA, CMA | **Languages** I provide patient care in Spanish, French, & English. | **Citizenships** Canada & Spain.