

# Suraj Bansal

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## EDUCATION

McMaster University, Hamilton ON

Expected: May 2025

Bachelor of Health Sciences (Honours) Candidate (GPA: 3.98/4.00)

Relevant Coursework: Physiology and Anatomy, Immunology, Biochemistry, Cellular and Molecular Biology, Statistics, Calculus

Honors: Dean's List (2021-22) | Awards: Faculty of Health Sciences Achievement Award

## RESEARCH PROJECTS

### Accepted Manuscripts

Zeng, A.G.X., Bansal, S.\*, Jin, L.\*, Mitchell, A., Chen, W.C., Abbas, H.A., Chan-Seng-Yuel, M., Voisin, V., van Galen, P., Tierens, A., Cheok, M., Preudhomme, C., Dombret, H., Daver, N., Futreal, P.A., Minden, M.D., Kennedy, J.A., Wang, J.C.Y., Dick, J.E. A cellular hierarchy framework for understanding heterogeneity and predicting drug response in Acute Myeloid Leukemia. (In Press). *Nature Medicine*. May 2022. DOI:10.1038/s41591-022-01819-x

Bansal, S., Ahn, M. The efficacy of nanoparticle-based CT imaging techniques in identifying pro-inflammatory macrophages in atherosclerosis. (In Press). *The Meducator*. April 2022. DOI:10.35493/medu.41.14

## RESEARCH EXPERIENCE

The Dick Lab, Princess Margaret Cancer Centre, Student Researcher | Toronto, ON

Sep. 2020 - Present

- Performed transcriptomic meta-analyses (unsupervised cell clustering, gene expression deconvolution, survival analysis etc.) to interrogate disease heterogeneity in Acute Myeloid Leukemia and predict clinical responses to treatment
- Publications: 1 accepted manuscript in *Nature Medicine* (IF: 53.44), 1 poster presentation (local), 2 manuscripts in preparation
- Awards: T-CAIREM AI in Medicine Summer Research Studentship (2022), UofT Molecular Genetics Undergraduate Summer Research Program (2021, 2022), University Health Network ORT Summer Student Program (2021, 2022)

St. Michael's Hospital, Division of Gastroenterology, Research Volunteer | Toronto, ON

Jun. 2019 - Aug. 2019

- Assisted with endoscopic training for University of Toronto residents as EndoVR simulation expert and standardized patient
- Performed data collection for their medical education research studying the effects of gamification on student learning

## LEADERSHIP AND VOLUNTEERING EXPERIENCE

The Meducator, Managing Editor | Hamilton, ON

Sep. 2021 - Present

- Facilitating an editorial board in performing submission reviews and editing for bi-annual article submissions
- Published staff-written articles on myocarditis and mechanobiology (Issue 40) and atherosclerosis diagnostics (Issue 41)

York Region District School Board Student Senate, Prime Minister | York Region, ON

Sep. 2018 - Jun. 2021

- Secured \$35,000 in funding and sponsorships to launch YRDSB's largest mental health conference and monthly general assemblies attended by students from 33 secondary schools (increased event attendance from 20 to 1,300 across 3 years)
- Built FACESofYRDSB, an anonymous online platform to showcase racial discrimination stories from BIPOC students
- Launched weekly mental health symposiums on the impacts of COVID-19 on adolescent mental health and wellbeing

TEDxYouth Toronto, Student Co-Chair | Toronto, ON

May. 2018 - Nov. 2019

- Maintained a \$15,000 sponsorship portfolio (RBC, Western Ivey, NBA Canada) and sourced world-renowned event speakers
- Implementing coordinated marketing strategies, procuring 1,000+ conference applications (increased from 500)
- Led 12 Youth Ambassadors in launching the inaugural TEDxYouth Summer Conference (100 attendees)

## SELECT HONOURS AND AWARDS

Recipient (1 of 20), T-CAIREM AI in Medicine Summer Research Studentship	2022
Recipient (1 of 1), Ontario Public Schools' Association Jack A. MacDonald Award of Merit (\$500.00)	2021
Recipient (1 of 1), Ontario Student Voice Award: Entrepreneurship Category (\$1,000.00)	2021
Recipient (1 of 1), Richmond Hill Volunteer Youth Achievement Award	2021
Recipient, 5-Year Ontario Volunteer Service Award	2021
First Place, Sidewalk Labs (Google) Consulting Competition	2020
First Place, SHAD Design Entrepreneurship Challenge, University of British Columbia	2019

## SKILLS

Languages and Libraries: Python, R, Javascript, SQL, Keras, Tensorflow, Scanpy, Seurat, GSEA, Survival, Scikit-learn