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: Deans 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., Mindenl 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*. February 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 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 data entry and patient roleplays for research on the transfer of endoscopic skills with an endoscopic simulation curriculum using EndoVR (CAE Healthcare) — a high-fidelity interventional virtual reality endoscopic simulator

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